



**SELF STUDY REPORT
FOR ASSESSMENT (Cycle-I) FOR
AFFILIATED/CONSTITUENT COLLEGES**

Submitted to
NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL
BANGALORE, INDIA



Submitted by
GHARDA FOUNDATION'S
GHARDA INSTITUTE OF TECHNOLOGY
(Affiliated to University of Mumbai)
At post Lavel, Tal. Khed, Dist. Ratnagiri, Maharashtra,
Pin.415 708

GIT | GHARDA
INSTITUTE OF
TECHNOLOGY

September 2016



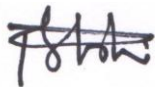
1. PREFACE

It gives me immense pleasure to submit the Self Study Report (SSR) of our institute to the National Assessment & Accreditation Council (NAAC), Bangalore for accreditation (Cycle I). This Self Study Report is a reflection of the academic and administrative functions and activities of the institute focusing on curricular aspects, teaching learning and evaluation, research consultancy and extension, training, infrastructure and learning resources, student support, leadership, management, innovations and best practices. The institute has collectively put in best efforts facilitated by the Internal Quality Assurance Cell and other committees as envisaged by NAAC.

I take this opportunity to congratulate and thank the Management, the members of Steering Committee and the Internal Quality Assurance Cell (IQAC) and all my faculty members for sharing the responsibility of drafting the SSR. I also thank all administrative sections and academic departments of the Institute.

I expect that the Self study report prepared by the Institute reflects the true academic values and culture of the Institute. I expect to find favour with the National Assessment & Accreditation Council.

Thanking you with warm regards,



Dr. Pramod Shriniwas Joshi

**PRINCIPAL,
Gharda Foundation's
Gharda Institute of Technology,
Lavel, Ratnagiri**



GHARDA FOUNDATION'S GHARDA INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi. DTE. Maharashtra State & Affiliated to Mumbai University)

Ref. No.GIT/NAAC/2016/720
Date:- 28th September, 2016

To,

Prof. D.P. Singh
Director,
National Assessment & Accreditation Council,
P.O. Box. No. 1075, Opp, NLSIU,
Nagabhavi, Bangalore- 5660072.

Subject: Submission of Self Study Report (SSR) with Track ID- MHCOGN26633

Respected Sir,

With reference to your e-mail dated 26/09/2016 regarding approval of LOI and further submission of self study report (SSR) and A&A fees for institute, I am to inform you that we have uploaded the SSR on our web site on 14/09/2016.

The institute is ready for accreditation and assessment by NAAC Peer Team. You are kindly requested to accept the SSR in hard copy form for further processing.

The submission includes five hard copies and one soft copy (CD) of SSR along with the Demand Draft of applicable A&A fees. The details of the same are listed below:

1) DD Number	: 000181
2) Bank	: Saraswat Co. Opp. Bank
3) Amount	: Rs. 3,45,000/-
4) In favor of	: The Director, NAAC
5) Payable at	: Bangalore
6) Date	: 28 th September, 2016

I further assure you, that the uploaded SSR and the hard copy of the SSR are as per the prescribed manual/ formats of NAAC.

Thanking you.

For GHARDA FOUNDATION'S
GHARDA INSTITUTE OF TECHNOLOGY

Dr. Pamod S. Joshi
Principal



Encl: As above

A/P Lavel, Tal. Khed. Dist. Ratnagiri. PIN - 415 708. M.S Tel.: 02356-262795-99, Telefax. : 02356-262980
E-mail : principal@git-india.edu.in Website : www.git-india.edu.in

2. EXECUTIVE SUMMARY

Dr. Gharda, a hard core research scientist, built Gharda Chemicals limited, a company which introduced several new products in India with indigenous technology. He is the founder, chairman and managing director of Gharda Chemicals Limited, an R&D-based company, with business interests in agrochemicals, polymers and is actively pursuing an entry in the market for high performance polymers.

Gharda Foundation was formed, keeping in mind, village development initiatives. Gharda Foundation operates with the principle of “Village Development through Self Development” and firmly believes in participatory approach and not one sided donations.

The principle objective of the Gharda Foundation is to carry on activities for the benefit and development of rural India with focus on issues like health, literacy, social awareness, agriculture, technical education etc on its own or by joining hands or by helping likeminded NGO's.



Establishment of Gharda Institute of Technology (GIT) in a rural area is in line with the philosophy of Gharda Foundation. GIT began its journey in 2007 to produce good quality engineers and responsible citizens as envisaged by Padmashri Dr. K. H. Gharda, Founder and Chairman of GIT. The vision and mission statement of Gharda Foundation are as follows:

Padmashri Dr. K. H. Gharda

Vision of Gharda Foundation:

Self development through rural development

Mission Gharda Foundation:

- Work in partnership with rural India to provide basic needs and education
- Empowering women and children to raise the standard of living

Gharda Foundation is actively supporting primary and secondary education by having its own “Balwadis (Kindergarten schools)” and supporting teaching programs for school-going children and residential training program for 10th standard students. For better infrastructure he has generously contributed to various schools for construction and repair of school buildings, sanitary blocks etc. The unique scheme is “School Area Development Program” which

operates with the help of students and makes them earn while they work. The *learn and earn* scheme has helped needy students.

As a part of education program, the Gharda Foundation, driven by Padmashri Dr K. H. Gharda, established ‘Gharda Institute of Technology’. The institute provides good infrastructure, modern equipment, advanced laboratories, experienced & dedicated teachers. The education is provided at affordable cost. Institute within seven to eight years has emerged as a premier institute in *Konkan* region with following vision and mission.

Vision of Institute:

To play a distinct role in transforming individuals in to engineering professionals for betterment of society

Mission of Institute:

- Impart knowledge through relevant curricula
- Develop skills to apply knowledge to profession
- Create awareness and understanding of continuous learning

Institutional Objectives:

- To strive for all-round development of students relevant to the needs of industries and making them competent to face the challenges of globalization.
- To strengthen industry liaison by way of faculty training, students projects, testing, Memorandum of Understandings (MOUs).
- To promote R & D activities in the Institute.
- To conduct knowledge and skill enhancement programs for faculty and support staff.
- To conduct training programs for developing soft skill, entrepreneurship skills, corporate etiquettes and ethical values.
- To create awareness amongst students to work in multi disciplinary and cross cultural environment.

Over the years GIT has grown into an institute of repute offering five Under Graduate programmes with 60 intake of each programme. viz. Mechanical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering and Electronics & Telecommunication Engineering. Total strength of Institute is approximately 1200 students. It is affiliated to the Mumbai University. The foundation has land of 65 acres out of which the Institute is spread over 23.16 acres of land with built up space of 32,555 sq. m. The institute has spacious buildings with ample scope for future development and expansion. The institute maintains and encourages eco-friendly campus by tree plantation, elimination of all types of wastes such as biodegradable, e-

waste and reuse of wastewater. Creation of waste water treatment Plant, biogas plant is a notable work done by the institute.

The institute interacts with industry, research bodies and university for effective operationalisation of the curriculum. The institute has signed MoUs with eminent organizations. The institute has been recognized as the Remote Education Centre of IIT Bombay and IIT, Kharagpur.

Teaching-learning is being enhanced by implementing E-learning resource centre, NPTEL video lectures and by arranging workshops, seminars, and conferences on the recent developments in technology.

SWOC analysis

SWOC analysis is carried out at regular intervals to identify the inherent strengths and weaknesses of the institute. The opportunities and threats from the external environment are evaluated to ensure continuous improvement. The present mapping of the Strength, weakness, opportunities and concerns is given below:

Strengths:

- (i) **Vision of the founder:** Over the last 8 years, the institute has improved and has moved from strength to strength owing to the vision of the founder trustees and subsequently as a result of relentless efforts of the employees.
- (ii) **Infrastructure:** A well-developed infrastructure with a area of 23.16 acres and total investment of Rs 46,35,46,085 /-. Very good investment on land, built up area, furniture and fixtures, equipment and library is a major strength of the institute.
- (iii) **Regional development requirement:** Gharda Institute of technology has emerged as well-known technical institute in Konkan, making the institute a preferred choice of students and parents of the region and is right now fulfilling the regional requirement.
- (iv) **A Balanced Portfolio of Programmes offered:** Finally, a well-balanced portfolio of 5 Undergraduate programmes carefully chosen after carrying out gap analysis in Konkan region.
- (v) **Drive from Educationalist and Industrialist:** The unique selling proposition (USP) of GIT is the composition of Board Members of the trust which include eminent educationists and renowned industrialists.

This is reflected in the professional work culture and academic vision of the institute.

- (vi) **Industries connect:** The Institute is backed by Gharda Chemicals Limited, a flagship company of Gharda group and the prime mover of the group is Padmashree Dr. Keki Gharda.
- (vii) **Faculty:** A culture based on role model of premier institutes like IITs and ICT is built consciously by the board of trustees and focus has been on education.

Weaknesses:

The institute's weaknesses are identified in the brainstorming sessions conducted at different levels.

- **Constraints imposed by location:** Rural location has become a constraint in attracting faculty with qualification and research abilities.
- **R & D potential:** Institute is yet to achieve its potential so far as R & D and consulting activities are concerned. There is enough scope for improvement in R & D and consulting output in terms of paper publication, grants earned, and non-tuition revenue.
- **Input quality of students:** Institute has not been able to attract highly meritorious incoming students from across the country although it is preferred choice of the rural region in which the institute is located.

Opportunities:

The economic, industrial, and academic environment offer number of opportunities to develop the institute as a centre of excellence.

- **Regional demand of skilled manpower:** There is a growing demand for engineers who possess sound technical knowledge, problem-solving skills, and ability to work in heterogeneous groups. The institute can respond to this demand by focusing on imparting such skills to its graduates in line with the requirement of Konkan region.
- **PG requirement:** The demand for post graduate qualification in the academia and industry at large exists at the moment and the region has scope in this respect. The institute can launch post graduate programmes covering different engineering specializations.
- **Scope in skill development:** There is an increased need of training industry personnel which can be catered using skill development programmes.
- **Industries connect:** The region is developing at a fast pace and institute has an opportunity to integrate with the industry.

- **Autonomy:** Institute has maintained creditability and certain batches have graduates and now opportunity exists for autonomy as prescribed by UGC.

Challenges:

The changing external environment poses certain threats to the institute's functioning and development.

- **Employability of Engineers:** The dynamic economical growth situation does affect placement opportunities for the students and as such institute is facing challenge in terms of placement efforts.
- **Plus Plus or Add on/Multi-Skilling courses for the students:** Institute is an affiliated to Mumbai University and is bound by the curriculum devised by University. It is now recognised that engineers have to be armed with add on qualifications for competitive employment market. Institute is making efforts in this direction.

3. PROFILE OF THE COLLEGE

1. Name and Address of the College :

Name :	Gharda Foundation's Gharda Institute of Technology, Lavel		
Address :	Post: Lavel, Tal- Khed, Dist: Ratnagiri		
	Pin : 415708	State : MAHARASHTRA	
Website :	www.git-india.edu.in		

2. For Communication :

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. P.S. Joshi	O: 02356 262795	9158779 250	9123562 62980	principal@git-india.edu.in
Steering Committee Coordinator	Prof. M.N. Lahane	O: 02356 262795	9921742 178	9123562 62980	mnlahane@git-india.edu.in

3. Status of the Institution:

Affiliated College
 Constituent College
 Any other (specify)

√

4. Type of Institution:

a.By Gender

i. For Men
 ii. For Women
 iii. Co-education

√

b.By Shift

i. Regular
 ii. Day
 iii. Evening

√

5. It is a recognized minority institution?

Yes

No



If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

6. Sources of funding:

Government

Grant-in-aid

Self-financing

Any other

√

7.

a. Date of establishment of the college: **18/06/2007**

b. University to which the college is affiliated /or which governs the College (If it is a constituent college)

University of Mumbai, Mumbai, Maharashtra.

c. Details of UGC recognition: **Yes**

Under Section	Date, Month & Year (dd – mm - yyyy)	Remarks (If any)
i. 2 (f)	NA	----
ii. 12 (B)	NA	----

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section/ Clause	Recognition /Approval details Institution / Department Programme	Day, Month and Year	Validit y	Remark s
F- No.37- 3/ legal/2012	AICTE Approval Letter No. Western/1- 2809269083/2016/EOA	05-04-2016	2016-17	Latest
	DTE Approval Letter No.			
	2/NGC/Engg./Approval/200 7/629	21-07-2007	NA	Approva l for program mes
	2/NGC/Engg./Approval/200 8/2483	15-12-2008		

Under Section/ Clause	Recognition /Approval details Institution / Department Programme	Day, Month and Year	Validity	Remarks
	2/NGC/Engg./Approval/2010/2419	28-12-2010		
	Mumbai University Approval Letter No. Aff-II/ICD/16-17/465	06-06-2016	NA	Annual Affiliation letter

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes

☒

No

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If yes, has the College applied for availing the autonomous status?

Yes

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No

☒

9. Is the college recognized?

a. by UGC as a College with Potential for Excellence (CPE)?

Yes

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No

☒

b. for its performance by any other governmental agency?

Yes

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No

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10. Location of the campus and area in sq.mts:

Location *	Rural
Campus area in sq. mts.	23.16 acres (83384.34 Sq.m.)
Built up area in sq. mts.	32,555 sq.m.

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/Seminar complex with infrastructural facilities **YES**
- Sports facilities :

- Play ground **YES**
 - Swimming pool **NO**
 - Gymnasium **YES**
- Hostel
 - **Boys' hostel**
 - i. Number of Boys' hostels : **Two**
 - ii. Number of inmates: **286 (Academic Year 2016-17)**
 - iii. Facilities (mention available facilities):

Solar water heater, Electric Boilers, Wi-Fi connectivity, Gymnasium, Mess, Departmental Stores, Indoor games, water purifier, Television & Medical Clinic facility (common for boys and girls).

Rooms equipped with fans, Tubelights, Table, Chairs, Storage cupboards and beds. Some rooms have attached toilet bathroom.
 - **Girls' hostel**
 - i. Number of hostels: **ONE**
 - ii. Number of inmates: **126 (Academic Year 2016-17)**

Facilities (mention available facilities):

Solar water heater, Electric Boilers, Wi-Fi connectivity, Gymnasium, Mess, Stores, Beauty Parlour, Study room, Indoor games & Badminton Court, water purifier, Television, Sanitary Napkin Vending Machine & Medical Clinic facility.

Rooms Equipped with fans, Tubelights, Table, Chairs, Storage cupboards and beds. Some rooms have attached toilet bathroom.
 - **Working women's hostel: NO**
- Residential facilities for teaching and non-teaching staff : **YES**

Sr.No.	Particulars	Quantity
1.	Principal Bungalow	01
2	2BHK flats (for associate professors)	11
3	1BHK flats (for assistant professors & non-teaching staff)	36
4	1RK-Residential (For housekeeping)	6

Guest House Facility

Sr.No.	Particulars	Quantity
1	AC Guest house	2
2	Guest-Self contained	12
3	Guest House-2BHK	1

4	Guest House-Principal's Bungalow	2

- Health centre – **YES (In Raigad Hostel-common for all)**
- Cafeteria — **YES(Little Bite-common for all)**

- First aid, Inpatient, Outpatient, Emergency care facility, Ambulance..... Health centre staff –

Qualified doctor	Full time	☐	Part-time	☒
Qualified Nurse	Full time	☐	Part-time	☒

- Facilities like banking, Departmental Store, canteen, ATM : **YES**

Sr. No.	Facility	Details
1	Bank & ATM	Saraswat Co-operative bank located inside GIT campus
2	Departmental Store	Located inside GIT campus
3	Canteen	Located inside GIT campus, 'Eat & Meet', "Anna's Dens"
4	Snack bar	Located inside GIT campus "Little Bite"

- Transport facilities to cater to the needs of students and staff: **YES**
(Sumo MH-08-Z-8417, Bus- MH-08-E9106)
- Animal house: **N.A.**
- Biological waste disposal: **YES**
Bio-filtration Plant: 1) capacity- 30,000 lit/Day
2) Size (l×b×h)-- 9m × 5m×1.75m = 78.75 m³
- Generator or other facility for management/regulation of electricity and voltage: **YES**
Generator: 250 KVA/200 KW
UPS Backup: 1) 60 KVA 2) 20 KVA
- Solid waste management facility: **YES**
Composting Plant: 1) Daily input-30 Kg/Day
2) Compost Output – 9 Kg/day
- Waste water management: **YES** (Treated water from biofilter is used for gardening and banana plantation)
- Water harvesting: **YES**
Rain water harvesting system:
1) Catchment Area- 4098 m²

2) Storage Capacity($l \times b \times h$)- $34m \times 18m \times 3.4m = 2080 m^3 = 2080$ Klit

12. Details of programmes offered by the college

For Academic Year 2016-17

Sr. No.	Program Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
1	Under Graduated	Mechanical Engineering	4 Years	12 th Pass	English	60	56
		Chemical Engineering	4 Years	12 th Pass	English	60	46
		Civil Engineering	4 Years	12 th Pass	English	60	56
		Computer Engineering	4 Years	12 th Pass	English	60	40
		Electronics & Tele- Comm. Engineering	4 Years	12 th Pass	English	60	22

13. Does the college offer self-financed Programmes? If yes, how many?

Yes ☒

No ☐

Number of Self Financed Programmes = **05**

14. New programmes introduced in the college during the last five years if any?

Yes		No	√	Number	NA

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments	UG
Any Other (Specify)	Engineering	Mechanical Engineering
		Civil Engineering
		Chemical Engineering
		Electronics and Telecommunication Engineering
		Computer Engineering

16. Number of Programmes offered under (Programme means a degree course like BA, B.Sc, MA, and M.Com)

a. annual system

b. semester system

c. trimester system

* Five Enginnering Programmes with bachelor degree

1*

17. Number of Programmes with

a. Choice Based Credit System

b. Inter/Multidisciplinary Approach

c. Any other (specify and provide details)

* Semester pattern, Chaoice Based Credit Grading System with Annual passing.

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18. Does the college offer UG and/or PG programmes in Teacher Education?

Yes

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No

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19. D oes the college offer UG or PG programme in Physical Education?\

Yes

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No

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20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty									Non-teaching staff			Technical staff		
	Professor			Associate Professor			Assistant Professor								
	Total	*M	*F	Total	*M	*F	Total	*M	*F	Total	*M	*F	Total	*M	*F
Sanctioned by the UGC / University / State	9	0	0	20	0	0	62	0	0	23	0	0	28	0	0

Positions	Teaching faculty									Non-teaching staff			Technical staff		
	Professor			Associate Professor			Assistant Professor								
	Total	*M	*F	Total	*M	*F	Total	*M	*F	Total	*M	*F	Total	*M	*F
Government															
Recruited	0	0	0	3	3	0	46	40	6	16	13	3	20	18	2
Yet to recruit	9	-	-	17	0	0	16	0	-	7	0	0	8	0	0
Sanctioned by the Management/ society or other authorized bodies	0	0	0	2	2	0	26	15	11	6	4	2	4	2	2
Recruited	0	0	0	2	2	0	26	15	11	6	4	2	4	2	2
Yet to recruit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

***M-Male *F-Female**

Note: Over and above figures in the table, post of Principal and Librarian are sanctioned by University and appointed by management. The post of Training and placement officer (TPO) is also sanctioned and appointed by management. Post of TPO is accounted in the category of administrative staff. Post of Principal and Librarian are not accounted for in above table.

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Ph.D.	Nil	Nil	2	Nil	Nil	Nil	2
M.Phil. / NET SET	Nil	Nil	Nil	Nil	04	Nil	04
PG	Nil	Nil	1	Nil	36	6	43
Temporary Teachers							
Ph.D.	Nil	Nil	Nil	Nil	Nil	Nil	Nil
M.Phil. / NET	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
SET							
PG	Nil	Nil	2	Nil	15	11	28
Part-Time Teachers							
Ph.D.	Nil	Nil	Nil	Nil	Nil	Nil	Nil
M. Phil.	Nil	Nil	Nil	Nil	Nil	Nil	Nil
PG	Nil	Nil	Nil	Nil	Nil	Nil	Nil

22. Number of Visiting Faculty /Guest Faculty engaged with the College.

3

23. Furnish the number of the students admitted to the college during the last four academic years.

Sr. No.	Category	2012-13		2013-14		2014-15		2015-16		2016-17	
		M	F	M	F	M	F	M	F	M	F
1	SC	16	4	19	6	7	7	16	4	18	2
2	ST	2	1	2	0	0	1	0	0	2	0
3	DT/NT	13	3	17	3	4	3	8	2	14	6
4	OBC	62	19	44	15	40	17	52	14	49	12
5	SBC	4	0	8	2	3	1	2	0	6	0
6	Open	125	34	100	33	59	16	65	8	94	17
7	Minority	24	2	23	1	17	2	16	0	37	3
8	PH	0	0	0	0	0	0	0	0	1	0
TOTAL		222	61	190	59	113	45	143	28	183	37
Data pertains to fresh admitted students in first year.											

Sr.No .	Category	2012-13		2013-14		2014-15		2015-16		2016-17	
		M	F	M		M	F	M	F	M	F
1	SC	73	25	93	29	84	25	79	27	85	26
2	ST	4	1	7	2	5	2	4	1	7	2
3	VJ/DT/N	54	17	74	16	63	13	54	15	60	21
4	OBC	23	76	279	98	23	10	25	94	26	91

5	SBC	16	7	27	7	17	11	21	6	29	5
6	Open	54	13	537	14	45	12	42	11	43	11
7	Minority	83	5	87	6	73	8	68	6	92	8
8	PH	0	0	0	0	0	0	0	0	1	0
TOTAL		92	25	101	29	85	28	83	26	88	26
GRAND TOTAL		1185		1316		1142		1100		1146	
Data pertains to students admitted in a given year in the institute (FE to BE)											

24. Details on students enrolment in the college during the current academic year:

Type of students	UG
Students from the same state where the college is located	215
Students from other states of India	05
NRI students	Nil
Foreign students	Nil
Total	220
Data pertains to fresh admitted students in first year.	

Type of students	UG
Students from the same state where the college is located	1127
Students from other states of India	19
NRI students	Nil
Foreign students	Nil
Total	1146
Data pertains to students admitted in a given year in the institute (FE to BE)	

25. Dropout rate in UG and PG (average of the last two batches):

- Dropout due to Failure for one year: **UG: 18.26%**
- Dropout from Institute: **1.027%**

26. Unit Cost of Education (*Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled*)

- Including the salary component **Rs. 1,13,952.88/-**
- Excluding the salary component **Rs. 50,971.60/-**

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes

☐

No

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* Accepting NPTEL certificate courses, we do not offer any programme in distance education mode.

28. Provide Teacher-student ratio for each of the programme/course offered
Teacher-student ratio for Academic Year 2016-17:

Sr. No .	Programme Level	Name of the Programme/ Course	Sanctioned/ approved Student strength	Duration- years	Actual No. of students	Teacher student ratio
1	Under Graduate	Civil Engineering	276	4	315	17.5
		Mechanical Engineering	276	4	285	16.76
		Computer Engineering	276	4	155	11.07
		Chemical Engineering	276	4	224	14.93
		Electronics & Tele-Communication Engineering	276	4	167	12.84
Student : Teacher ratio for the Institute 1146:77 =14.88:1						

* First year intake 60

* Second Year Lateral Entry 12

29. Is the college applying for Accreditation?
Cycle 1

☒

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only): **NA**

31. Number of working days during the last academic year. - **290 Days**

32. Number of teaching days during the last academic year - **150 Days**

33. Date of establishment of Internal Quality Assurance Cell (IQAC) IQAC:
02/07/2014

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC: **Not applicable**

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

Considering the local scenario Institute discontinued information Technology Programme in the year 2013-14

CRITERION I: CURRICULAR ASPECTS**1.1 Curriculum Planning and Implementation****1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders?**

As a part of education program, the Gharda Foundation, driven by Padmashri Dr K. H. Gharda, established ‘Gharda Institute of Technology’ in Konkan region with following vision and mission:

Dr. Gharda, a hard core research scientist, built Gharda Chemicals limited, a company which introduced several new products in India with indigenous technology. He is the founder, chairman and managing director of Gharda Chemicals Limited, an R&D-based company, with business interests in agrochemicals, polymers and is actively pursuing an entry in the market for high performance polymers.

Gharda Foundation was formed, keeping in mind, village development initiatives. Gharda Foundation operates with the principle of “Village Development through Self Development” and firmly believes in participatory approach and not one sided donations. The vision and mission statement of Gharda Foundation are as follows:

Vision of Gharda Foundation:

Self development through rural development

Mission Gharda Foundation:

- Work in partnership with rural India to provide basic needs and education
- Empowering women and children to raise the standard of living

Gharda Foundation is actively supporting primary and secondary education by having its own “Balwadis (Kindergarten schools)” and supporting teaching programs for school-going children and residential training program for 10th standard students. They are provided with question paper- answer key and mobile library facility. For better infrastructure he has generously contributed to various schools for construction and repair of school buildings, sanitary blocks etc. The unique scheme is “School Area Development Program” which operates with the help of students and makes them earn while they work. The *learn and earn* scheme has helped needy students.

Gharda Institute of Technology, established in Konkan region, has taken following vision and mission:

Vision of Institute:

To play a distinct role in transforming individuals in to engineering professionals for betterment of society.

Mission of Institute:

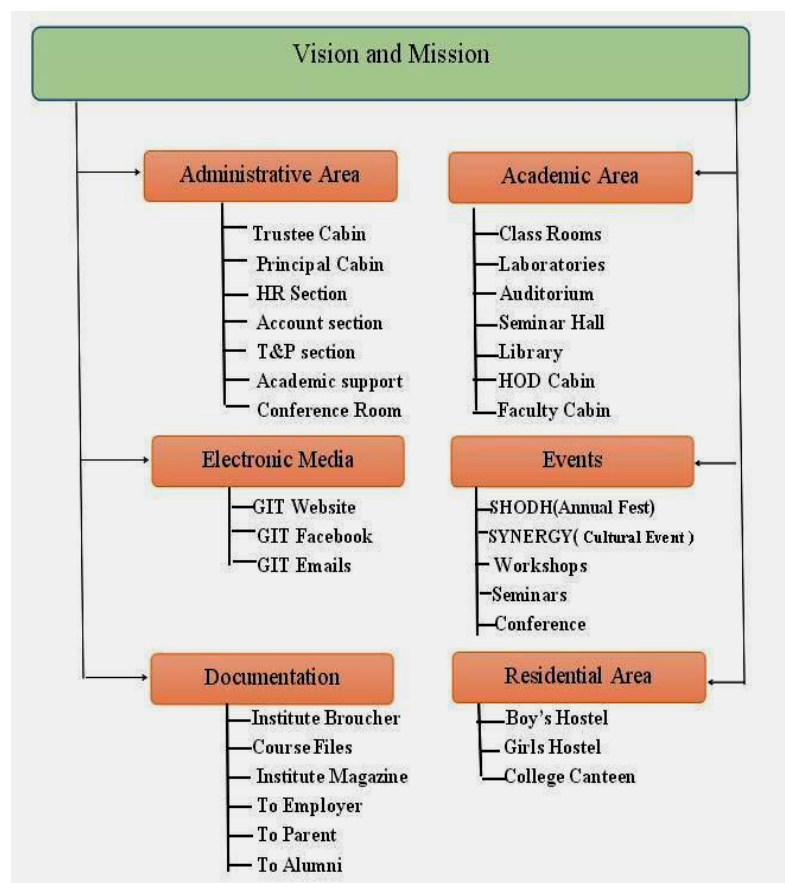
- Impart knowledge through relevant curricula
- Develop skills to apply knowledge to profession for the betterment of society
- Create awareness and understanding of continuous learning

Institutional Objectives:

- To strive for all-round development of students relevant to the need of industry and making them competent to face the challenges of globalization.
- To strengthen industry liaison by way of faculty training, students projects, testing, Memorandum of Understandings (MOUs).
- To promote R & D activity in the Institute.
- To conduct knowledge and skill enhancement programs for faculty and support staff.
- To conduct training programs for developing soft skill, entrepreneurship skills, corporate etiquettes and ethical values.
- To create awareness amongst students to work in multi disciplinary and cross cultural environment.

Vision and Mission of the Institution are communicated to the students, teachers, staff and other stakeholders through the following ways:

- Individual academic departments in the Institute have their own vision, mission and programme educational objectives (PEO). Institute's vision, mission and objectives are reflected in them.
- Vision-Mission statements are displayed at different locations. They are also shown at various events and are also printed in different documents.



1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example (s).

Before the start of each semester, the Principal organizes a meeting with Head of the Departments and relevant co-coordinator to plan Academic Calendar. The Academic Calendar is circulated to every faculty member through mail. Head of the departments invite preferences of subjects to be taught next semester from the faculty members at the end of every semester. Based on the subject expertise and also the preferences given, the concerned HODs allocate subject/s and practical/s to individual staff member. Faculty members are encouraged to change the existing subject after three years so that they can update themselves and can become expert in different subject areas. Before beginning of the academic activity, all faculty members from various departments prepare their teaching plans and theory/practical/tutorial plans and make a record of it in their Course File. The teaching plans are displayed on E-learning resource centre for students' reference. The contents of course file are -:

Course File Contents:

- Faculty name
- Course details
- Vision and Mission Statements
- Individual time table of faculty
- List of COs and POs and its mapping
- Teaching plan and record of course delivery
- Record of theory attendance
- Summary sheet indicating continuous assessment report of each student
- Plan of practical/assignment/tutorial work
- Record of theory/practical/tutorial attendance with performance evaluation of practical
- Record of project work engagement and progress

The Department/ Institute have following procedure for academic schedules:

- Academic calendar in line with university and AICTE guidelines is communicated to all.
- Class timetable is prepared and displayed before commencement of semester.
- All faculties prepare course file and lesson plan and get approved from HOD,
- Teaching and learning is carried out by all faculties with the help of chalk and board and other teaching aids.
- Faculty submits class attendance every month.
- Every month department academic progress is reviewed through MIS by Principal
- Internal tests are carried out (Sessional Exam-I and -II) as per the schedule in the academic calendar.
- Monthly review of student's attendance is carried out and report of defaulters is communicated to parents. Attendance/monitoring committee of institute keeps the records.
- Review of university examination results is done by Principal and HODs
- Guest lectures are arranged by department to deliver content beyond syllabus.
- Review and evaluation of project work of BE students is done by Guide and HOD.
- Modular outcome based report is prepared to check achievement of course outcome at the end of semester.

Also, faculty prepares syllabus coverage report, lectures conduct adherence report, and remedial classes record report periodically. Based on these records "Continuous Assessment Report" of students is prepared and displayed on notice board. In general, following teaching methodology is followed:

Class room learning:

A classroom lecture session is the classical chalk and board or presentations on computer/ overhead projector and is one of the most effective modes of course delivery. Class room learning is a synchronous method of learning where there is one-on-one interaction between the student and the instructor/teacher. Basic concepts/ fundamentals are covered during classroom teaching with the help of various teaching aides. Many a times, the concepts are not very clear in traditional approach and students need to dwell in the concept. Hence, classroom lectures are supplemented by tutorials and other asynchronous modes.

Laboratory learning:

- Actual laboratory performance/setup is done by the faculty apriory.
- Batches are made and conveyed to students.
- Laboratory/term work/tutorial learning material is prepared and furnished to Students through E-LRC
- Time slots for laboratory/term work are specified in the time table as per academic calendar.
- External Practical/ oral examination is taken after completion of curriculum.

Evaluation of learning process:

- Observation of performance of students in classroom/practical/term work/tutorial is done by faculty.
- Faculty generates a report for attainment of course outcomes.
- Analysis of students' feedback is done by Feedback Committee.
- Continuous assessment of performance of the students is done by giving feed back of their laboratory/tutorial/ term work learning.
- Outcome assessment report of students for laboratory work is given to students by faculty.

Academic Audit:

- All above mentioned records are assessed by Programme Coordinator /HOD twice in a semester.
- These records are audited by the Academic Audit Committee to identify areas of improvement.

Mentoring:

Every faculty member is assigned a group of students for Mentoring every year. The faculty conducts meeting with the mentees and record their complaints, suggestions, requirements, grievances and take necessary actions related to curriculum implementation. The record is used to monitor the progress of the students.

Consultation with senior professors

All senior faculty members help to a relatively less experienced faculty to understand the problems faced by them in the teaching learning process typically by building subject understanding, solving drill problems, setting test papers etc. Along with this the less experienced faculty members (Less than 2 years in GIT) have to attend pre and post lecture counseling given by senior faculty members and maintain the record of same.

Teaching Pedagogy:

For effective implementation of teaching learning process, following teaching learning methods are used:

- Class room Lectures (synchronous method)
- Lectures interspersed with discussion(synchronous method)
- Tutorials, short, projects/assignments/seminars(Asynchronous method)

Video lecture, Group Discussion, Seminars, Industrial visits are incorporated in the course delivery. Institute encourages use of different Teaching Aids such as Video films, Multimedia/power point presentations using DLP/Overhead projectors and Blackboards.

The above mentioned teaching learning process helps students to study curriculum completely along with additional key topics relevant to industry and technical skill development.

Whenever possible, Computer Based Training (CBT) programmes are used in teaching. Teaching, at times, involves use of display charts and working Models/prototype models. NPTEL Lectures are extensively used to educate the students for regular course delivery and more often than not for content beyond syllabus. Concept of virtual class room is being implemented in the institute to avail of domain expertise of subject experts.

Industrial visits are planned and executed timely by the various departments of the institute. Institute also encourages and helps the students for industrial training.

Students who desire to take admission to Second Year Engineering directly from Diploma are provisionally admitted in the College and permitted to attend the regular classes though they get admission one and half month late. The students who do not get opportunity to attend classes due to late admission are offered **extra classes** and practical sessions that they have missed.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?**University Level Support**

The academic curriculum/syllabus is prescribed by the affiliating university, i.e. University of Mumbai. New syllabus is introduced after every five years.

The faculty members from the institution actively participate in the process of syllabus revision of university. University syllabus is well organized and includes all necessary content to compete with the global trend. New syllabus includes the recent advancements and important happenings in respective stream. University also provides the list of reference books for each subject. University also takes the timely feedback from the faculty members to enrich the syllabus structure. The institution encourages the faculty to keep themselves updated by enrolling for the workshops related to the design of curriculum.

Orientation program:

Staff members participate in orientation meetings organized by the university. In orientation meeting, faculty provides the feedback on the content of the syllabus and suggests changes to the current syllabus for improvement.

Institute level support

The institution supports the process of enhancing the ability of the faculty to effectively translate the curriculum in the following manner.

Recording of lectures

Institutions use lecture recording as a means of enhancing teaching quality of faculty in the form of gesture, body language, vocal/pitch (diction) and time line. Recorded Video lecture is communicated to faculty which helps him to improve teaching strategy.

- In order to ensure that Lecture delivery of individual teachers improves, lectures of faculty are video recorded and individual faculty does self improvisation by self assessment of their body language and speech delivery
- The faculty members are encouraged to attend faculty development programs, short term training programs etc.
- The institution encourages the faculty to pursue higher studies and to take up the research work individually or in collaboration.
- The faculty is encouraged to apply for projects for research grants to different funding agencies such as University of Mumbai, AICTE, DST, and UGC etc., which help to enhance professional competence.
- In order to cater the need of the research activities by different departments the institute has established research and development (R&D) cell.
- All the faculty members of various departments are encouraged to participate in national/international conferences, seminars, training programs, and also to organize national/international conferences.

- Digital libraries, E-learning facilities are provided to all the faculty members of the institute which help them in teaching and delivering good lectures.
- Wi-Fi and internet facility is available in the campus for better self learning.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

The institution has taken following initiatives for effective curriculum delivery:



A. NPTEL Initiative:

Institute has taken initiative to establish first ever NPTEL local chapter in Konkan region. Faculty of the institute are working as local mentors for various NPTEL certification courses. Several students as well as faculty have undergone NPTEL certification courses and have received certificates. Notable courses are MTALAB programming for Numerical Computation, Computational Fluid Dynamics (CFD), Electromagnetic Theory, Project Planning and Control, Manufacturing Process Technology – Part I, Legal Compliance for Incorporating Start-up, Marketing Management I, and Principles of Human Resource Management.

For June – October 2016 cycle, more than 400 students have registered and out of them 296 students have received scholarship from NPTEL.

The College has launched **FTP Server** for online access of video lectures on subject required by curriculum as well as a few other topics of academic interest, typically from NPTEL. Students and faculty can login and download video lectures. Most of these video lectures are from professors of reputed institutes like IITs.

B. Vocational Training Programmes:

To fulfill the mission of Skill Development, actively promoted by Government of India, GIT has set up the “Vocational Training Center (VTP)” at Institute Premises. The VTP Center was formally inaugurated by Mr. B. Radhakrishna, District Collector of Ratnagiri on March 9, 2016. Affiliation to the center is given by Maharashtra State Skill Development Society (MSSDS), Mumbai.

The VPT training is offered in regular & weekend batches. Institute staff works as a trainer for these courses. The current GIT-VPT center is known as GIT SKILLS. It offers 11 courses from seven sectors under the state government scheme “Pramod Mahajan Kaushalya Vikas Udyojagta Abhiyan (PMKVUA)” and 333 students have started taking training out of 460 student registrations.

Sr. No.	Course Name	Course Code	Sector
1	Arc & Gas Welder	Fab701	Fabrication
2	Basic Wood Work	Woo101	Wood Work And Furniture
3	Basic Fitting & Measurement	Pla101	Plastic Processing
4	Assistant Plumber	Con705	Construction
5	Mason	Con714	Construction
6	Process Attendant Chemical Plant	Che202	Chemical
7	Instrument Attendant Chemical Plant	Che205	Chemical
8	Computer Hardware Assistant	Ict703	Information And Computer Technology
9	Computer Network Assistant	Ict704	Information And Computer Technology
10	Electrician Domestic	Ele701	Electrical
11	Repair Of Domestic Electronic Appliances	Elc701	Electronics

C. E-learning Resources Centre:

The institute has **E-learning resource centre** to update and provide students teaching plans, notes, video lectures, PPTs. It helps to strengthen academics in terms of following points:

- Every faculty member upload notes of his/her subject (printed notes, handouts, PPTs, video lectures etc)
- The resource centre includes syllabus, lesson plans and delivery schedule, topic wise question bank, free e-books, notes and presentations.
- All assignments are also published.

D. R&D Centre in collaboration with GCL:

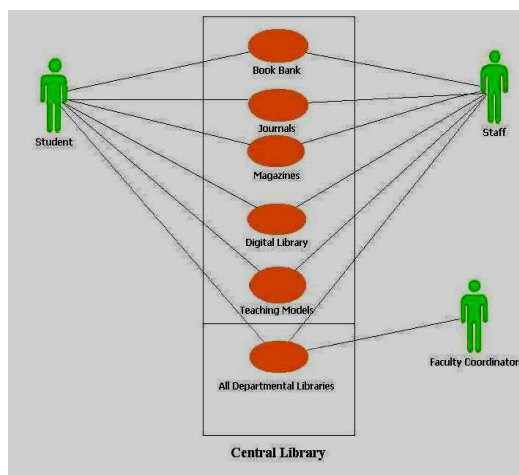
Institute helps the faculty to establish liaison with industries and R & D Institutions to enhance the practical knowledge of the teachers so as to transform the students as industry ready professionals. The institute has established R&D laboratory which consists of various research software, research equipments, research material and this facility is available after college working hours too.

E. “Aakash” Tablet:

College is conducting objective test for first year engineering students. The students who are able to clear the test are allotted with “Aakash Tablet” for the period of one semester which is equipped with all e-learning resources.

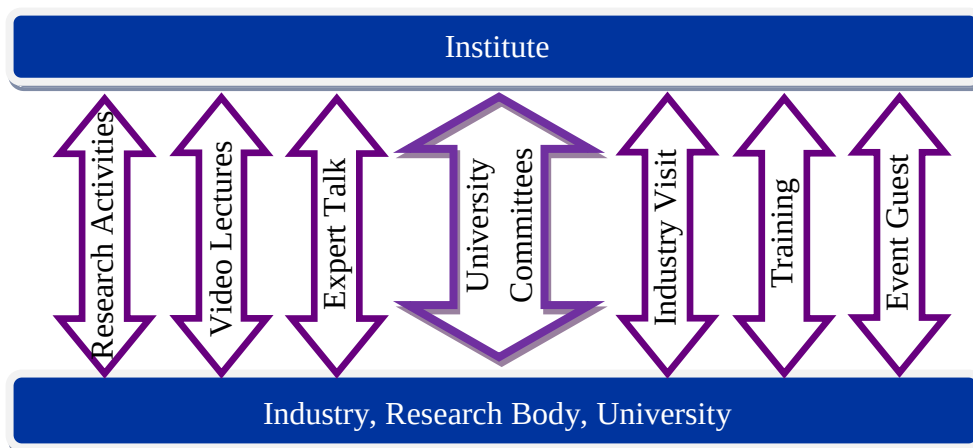
F. Library facility:

The students are provided with facilities like book bank from central library at nominal cost. Apart from this all departments offer department library facility for staff and students. This library is managed by faculty coordinator. Library remains open extra time other than the working hours during preparatory leave and examination. Library is also available for the students on Sunday and holidays during examinations. The College provides text and reference books and other teaching and reference material like Journals, Magazines, Teaching Models and Software to enable the faculty to ensure effective delivery of curriculum.



1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalisation of the curriculum?

The institute always tries to build the network with the industry, eminent institutes and research agencies. The institute interacts with industry, research bodies and university for effective implementation of the curriculum as follows:



- Discussions are held on the topics of importance from syllabus and beyond syllabus. Industry expert are also invited for the assessment of project work done by B.E. students.
- University deposes institute faculty on different committees as examiner, moderator, paper setter, Joint Chief Conductor and member of local enquiry committee.
- Expert lectures are organized on some key topics to discuss research level happening from the reputed organizations like
 1. Gharda Chemicals Ltd.,

2. Prolific Technologies Pvt. Ltd,
3. FOSS (Free and Open Source Software) Mumbai,
4. Webwestin Community India Pune,
5. Roboedutech Pvt. Ltd,
6. ACIT Mahim,
7. Mastrex Pvt. Ltd.

They guide students to plan their career as research scientists in their respective organizations and give details of opening for jobs in their organization.

- The College faculty members present recorded video lectures of faculty from IITs and premier institutes on important topics of syllabus and interact with students to summarize.
- To get the exposure to real life situations and facilitate the training of students and faculties, institute has signed the MOU with the industries.
- Institute has full-fledged research and development centre where all research activities are co-ordinated. The faculties prepare and submit the research proposal to the various research bodies/ agencies like University of Mumbai, DST, UGC, and AICTE etc.
- The institution organizes technical event “Shodh” every year. Shodh is a national level event which includes paper presentation, Project exhibition, poster presentation, technical quiz and other technical competition.
- Also lectures on latest cutting edge technologies are arranged by inviting eminent personality from various research institutes and organizations which provides a solid platform to interact with them for collaborative activities.
- Students and faculty actively participate in the activities of chapters of professional bodies such as ISTE, IChE and IETE.

a) Research Grant Received:

Name of Faculty	Amount Sanctioned Rs.	Sanction letter details
Prof. Danawade B.	Rs. 40000/-	Research Project No.364 (14-15) University of Mumbai
Prof. Danawade B.	Rs. 15000/-	Research Project No.331 (12-13) University of Mumbai
Prof. Godbole B.	Rs. 40000/-	APD/237/351 of 2014
Prof. Pandharkame S.	Rs. 50000/-	APD/237/459/ of 2016 15/02/2016
Prof. Kalamkar R.	Rs. 35000/-	Research Project No.387 (Year 15-16) University of Mumbai.

b) MOUs with the industry

S.N.	Department	Industry	Date of MOU	Address
1	Chemical Department	Gharda Chemical Limited	17/11/2015	Gharda Chemical Limited, MIDC, Lote, Tal-Khed
		Excel Industry	1/4/2016	Excel Industry, MIDC, Lote, Tal-Khed
2	E&TC Department	Research Approch	5/01/2016	Research Approch, Bangalore
		Shivaks Info Technologies Pvt. Ltd.	7/12/2015	Allahbad, Uttar Preadesh
		Web westinj India	5/12/2015	Pune
		Sciencetech Technologies Pvt. Ltd.	5/07/ 2013	Sinhgad road, Pune
		Coddest Software factory	20/07/2013	Kotharud, Pune
		Nvis Tech, Pvt. Ltd.	25/07/2013	Pune
3	Civil Department	Vighneswar Developers	Jan, 2013	A/P-Khargar, Navi Mumbai
		Ravindra D. Karindikar & Associates	Jan, 2013	A/P-Chiplun
		S.A. Makubhai Engineers & Contractors	Jan, 2016	A/P-Chiplun
		Vighnharta Developers	June, 2016	A/P-Dapoli
		Excel Industries Ltd.	June, 2016	MIDC, Lote, Tal-Khed
		Dilip Desai & Associates	July, 2016	A/P- Kherdi Chiplun
4	Mechanical Department	YIT Pune	19/09/2014	95/A, Tophhkhana, Shivaji Nagar, Pune
		Indsur Gears Ltd.	26/08/2015	MIDC, Chikalthana, Aurangabad

5	Computer Department	ATS Microsoft Academy	16/07/2013,	Lajpat Nagar New Delhi
		Logicbits systems Pvt ltd	26/07/2013,	2nd Floor, Bhise Building, Opp. Devkar Plaza, near Mahatma Phule School, Shantinagar, Bhosari, Pune - 411039.
		Codeest software factory	01/08/2013	Payas building, Plot No. 25, Ground Floor, Shivtirth Nagar, Kothrud, Pune – 38.
		Inbitech Solutions	13/08/2013	Kolhapur
		Yash Systems	19/08/2014	Nitin Yaswant Rane, Laxmi-Chhaya Apartment, Gala No. 5, Near Sane Guruji Udyan, Chinch naka, Chiplun karad Road, Chiplun-415605
		Third eye	22/08/2014 to 14/09/2016	Sharda Vihar, D, 117, Mangalwar Peth, Kolhapur - 416012
		Infysec	16/08/ 2013 to 15/08/2014	Infysec, Chennai
6	Applied Sciences & Humanities	Dalvik Apps	1/10/2015	Dalvik Apps, Mumbai
		Good Rasayan ltd.	07/12/2016	MIDC, Lote, Tal-Khed

c) Industry sponsored Projects (Number of Projects):

Department	2012-13	2013-14	2014-15	2015-16	2016-17
Chemical	-	4	1	4	2
Mechanical	-	4	-	1	0
Computer	-	3	3	4	9
Civil	NA	4	2	2	0
E & TC	--	3	4	3	2
Total	-	18	10	14	13

d) Industrial Training (Number of Students):

Department	2012-13	2013-14	2014-15	2015-16	2016-17
Chemical	-	17	23	21	29
Computer Engineering	-	-	-	5	10
Mechanical	-	-	22	25	17
Civil	-	-	31	35	14
E & TC	-	3	5	31	13
Total	-	10	81	117	83

a) Guest Lectures**1) Chemical Engineering**

Resource Person	Topic	Date	Targeted students FE/SE/TE/BE
2016-17			
Prof. S. S. Bhagwat (ICT Mumbai), Mr. K. Sahasranaman (Consultant), Mr. Vikram Bhat (Industrialist), Mr. Vijay Sane (R & D Manager, GCL Dombivali) & Mr. Rajesh Jain (Entrepreneur)	Expert talk on Career Guidance and Career Options in Chemical Engineering	14/10/2016	BE/TE (120)
2015-16			
Mr. Danish Bade	Career Path for	13/02/2016	TE/BE 120

	Chemical Engineers		
Dr. S.S. Bhagwat, ICT Mumbai, Dr. S. Ganeshan, IIT Bombay, Mr. Vijay Sane, GCL Dombivali,	Role of Chemical Engineers from industrial point of view.	23/10/ 2015	SE/TE/BE - 100
2014-15			
Mr. S. D. Sane and Mr. V. Y. Sane	Role of Professional body in Carrier Development	8/08/ 2014	TE/BE - 114
Mr. V. R. Vaidya	Process Calculation and Distillation in Chemical Industry	22/01/2015	TE/BE - 120
2013-14			
Mr. Brijesh Khedjar	Recent advances in Chemical Engineering	9/04/2014	TE/BE-
Mr. Hemant Dange	Industrial Safety & EHS management	26/09/2013	SE/TE/BE

2) Civil Engineering

Resource Person	Topic	Date	Targeted students FE/SE/TE/BE
2016-17			
Mr. Nitin Tambe	E-tendering	23/10/2016	B.E.-60
Prof. Shrivallab Chavan	STADD-PRO	31/01/2017	S.E.,T.E.& B.E.-40
Prof.Satish Kadam	M.B.A. Entrance	13/02/2017	B.E.-15
2015-16			
Mr. Gallop Design and Construction	TOTAL STATION WORKSHOP	12 &13/03/2016	BE-52
2014-15			
Mrs. H.S.Phatak	Structural Analysis-II	13,18,20,27,29/09/14	TE-70

3) Computer Engineering

Resource Person	Topic	Date	Targeted students FE/SE/TE/BE
2016-17			
Dr. L.D.Netak, Assoiate Prof. Dr. BATU, Lonere	Internetworking using TCP/IP	10/08/2016	TE & BE
Prof. Deven Ketkar, Asst. Prof. FAMT, Ratnagiri.	Cloud Computing	19-20 Oct, 2016	BE
2015-16			
Dr. Deven Shah	Cloud Computing	12-09-2015	BE Comp and BE IT
Dr. Pradeep Saxena	Operating System Revolution	30-10-2015	TE, BE Comp and TE, BE IT
Mr. R R Bane	Current Issues of System Security	29-10-2015	BE Comp and BE IT
2014-15			
Mr. P S Gamare	Automata Theory: Turing Machine	25-04-2015	TE, BE Comp and TE, BE IT
Mr. D P Mhapsekar	Transaction and Concurrency Control	23-04-2015	SE,TE, Comp and SE, TE IT
2013-14			
Mr. Parag Abhyankar	Computer Vision	04-05-2014	BE Comp and BE IT
Mr. S V Jadhav	Advances of Digital Signal and Image Processing	09-04-2014	BE Comp and BE IT

4) Electronics and Telecommunication Engineering

Resource Person	Topic	Date	Targeted students FE/SE/TE/BE
2016-17			
Career Guidance in Managment	Mr. Satish Kadam	13/02/17	BE(32)

IOT based Seminar	Mr. Sharad Tiwari	6/02/17	TE (15)
IOT based Project Seminar	Mr. Sanjay Awati	30/01/17	TE and BE(80)
TV Workshop	Mr. Hari Pol	22/01/17	SE & TE(18)
Webinar on “Embedded Systems”	Mr. Sharad Tiwari	20/09/16	TE & BE (80)
Webinar on “Recent Trends in IT Industry”	Miss. Sayali Yewle	20/09/16	TE & BE (80)
Mr. Vinay Kumar & Mr. Deepak Jaiswal	Industrial Automation & Robotics Seminar	21/09/16	TE (43) & BE (52)
Mr.Rohan Kharade	IIT Bombay projects	06Aug2016	T.E. /B.E(74)
2015-16			
Mr.Sandeep Maheshwari	Power of focus for student	27thJuly2015	S.E.-(20)
Mr. Akhilesh Sharma, ADCC info.Ltd.	Matlab	30 July2015	S.E./T.E./B.E.
Mr.S.N.Todkar	Anti Collision Device	1Aug2015	B.E.
Mr.Nishant Sharma	Cyber and Mobile Security	2Feb2016	S.E./T.E./B.E
Ms. Priyanka Sharma, i3indya Trainers New Delhi	Embedded C Program	6 April 2016	F.E./S.E/T.E./B.E
2014-15			
Mr.K.G Vinod	Soft skill Developemt Skills	11Aug2014	B.E.
Dr. Malshe	Effective verbal Communication	17Aug2015	T.E./B.E.

5) Mechanical Engineering

Resource Person	Topic	Date	Targeted students FE/SE/TE/BE
2016-17			

Mr. Jayant Deo & Mr. Vinay Kumar (Habib Animation Pvt Ltd.)	Industrial Automation & Robotics	21/09/2016	TE & BE (19)
2015-16			
Prof. Anuradha Sonawane	Guest Lecture on “Interview Skills”	04/09/2015	52
Prof. Anuradha Sonawane	Guest Lecture on “Soft Skills”	11/09/2015	45
2014-15			
Mr. Ameya S. Khambete, Manager, CAD CAM Guru	3D printing & Additives Manufacturing	04/02/2015	68
2013-14			
Mr. Yogesh Kadu, Maintenance Engineer, GCL, Lote	Lecture on Career Guidance, How to create Job Profile as an Engineer	28/02/2013	43
Mr. Vikrant Kulkarni, Mr. Mayuresh Padvekar, Quality Assurance Executive, Prod. Planning Executive, J.K. Fliles Pvt. Ltd.	Lecture on What After BE	11/03/2013	30

f) Soft skill development programs

1) Chemical engineering

S.N.	Program type	Targeted Students	No. Of Programs	Duration in Days
2016-17				
1	Soft Skill	60	01	01
2015-16				
1	Aptitude test	64	5	1
2	Guidance for higher education	64	2	1
3	Soft skill training	64	1	1
	Total	-	8	-
2014-15				

1	Aptitude test	51	4	1
2	Guidance for higher education	51	3	1
	Total	-	7	-
2012-13				
1	Entrepreneurship Awareness Program	09	01	-

2) Civil Engineering

S.N.	Program type	Targeted Students	No. Of Programs	Duration in Days
2015-16				
1	Soft skill training	54	01	01
2014-15				
1	Aptitude test	83	02	01

3) Computer Engineering

S.N.	Program type	Targeted Students	No. Of Programs	Duration in Days
2016-17				
1	Soft Skill Development Program by Mr.J.K.Patil [GM,GCL]	BE	39	3
2	Soft Skills Seminar by Mr.Rizwan Sheikh [Seed Infotech Ltd,Pune]	BE	21	1
2015-16				
1	Aptitude test & Analysis	48	06	01
2	Soft skill training	48	09	01
3	Career Guidance	48	03	01
4	Entrepreneurship Awareness Program	48	02	01
	Total	-	20	
2014-15				
1	Aptitude test & Analysis	47	06	1
2	Soft skill training	47	03	01
3	Career Guidance	47	02	01
4	Entrepreneurship Awareness Program	47	03	01
	Total	-	14	
2013-14				
1	Aptitude Analysis	73	02	01

2	Soft skill training	73	07	02
3	Guidance for higher education	73	02	01
4	Guidance for defence Service	73	02	01
5	Entrepreneurship Awareness Program	73	01	01
6	Career Guidance	73	01	01
	Total	-	15	-

4) Electronics and Telecommunication engineering

S.N.	Program type	Targeted Students	No. Of Programs	Duration in Days
2016-17				
1	Soft skill Training(Already in Original SSR)	40	1	3
2015-16				
1	Aptitude test	30	01	01
2	Soft skill training	70	04	01
3	Guidance for higher education	70	01	01
4	Guidance for defence Service	70	01	01
5	Entrepreneurship Awareness Program	70	01	01
6	Test on C, C++	70	01	01
	Total	-	9	-
2014-15				
1	Aptitude test	70	02	1
2	Soft skill training	60	03	01
3	Guidance for higher education	70	01	01
4	Guidance for defence Service	40	01	01
5	Entrepreneurship Awareness Program	60	01	01
6	Test on C, C++	20	01	01
	Total	-	9	-
2013-14				
1	Aptitude test	70	2	2
2	Soft skill training	39	2	2
3	Guidance for higher education	70	1	1
4	Guidance for defence Service	70	1	1
5	Entrepreneurship Awareness Program	33	1	1
6	Test on C, C++	16	1	1
	Total	-	8	-

5) Mechanical Engineering

S.N.	Program type	Targeted Students	No. Of Programs	Duration in Days
2016-17				
1	Soft skill Development	47	02	01
2015-16				
1	Soft skill training	B.E.	2	1
2	Aptitude test	B.E.	2	1
	Total	-	4	-
2014-15				
1	Soft skill training	B.E.	2	1
2	Aptitude test	B.E.	2	1
	Total	-	4	-
2013-14				
1	Soft skill training	B.E.	2	1

First Year Engineering

S.N.	Program type	Targeted Students	No. Of Programs	Duration in Days
1	Objective Test	FE (171)	1	1
2	Sport Lecture	FE (70)	1	1
	Total	-	2	-
2014-15				
1	Objective Test	FE	1	1

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University? (Number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.)

Gharda Institute of Technology is affiliated to Mumbai University, Mumbai. The curriculum is prescribed by the University and is delivered as mandated.

Curriculum consists of two parts –

1. Structure of the course:

Structure of the course consists of delivery schemes and evaluation schemes. Delivery scheme deals with the teaching hours allotted for lectures, practical, tutorials. Evaluation scheme consists of credit system and marking scheme. It also lists course outcomes.

2. Detailed syllabus of the course.

The syllabus is divided in modules. Each module consists of the detailed content of the course, the lecture hours allotted to each topic. At the end, recommended texts and reference books are listed.

Mr. S. S. Nandgoankar had actively participated and contributed in syllabus setting process of course Surveying, SE, Civil engineering in 2013.

Role of institution in university curriculum development:

Teachers from the institute actively participate in content development of the university syllabus. They participate in orientation meetings organized by the university. In orientation meeting faculty provides the feedback from the students and suggests the important contents to be included in the current syllabus.

Details of orientation meetings

1) Chemical Engineering

Sr. No.	Name of Program	Venue	Faculty Attended	Date
Chemical Department				
01	Process Calculation	Bharati Vidyapeeth Kharghar	Dr.S.H.Gharat	13/01/17
02	CRE-I & CRE-II	Bharati Vidyapeeth Kharghar	Prof.S.P.Tekade	13/01/17
03	Solid Fluid Mechanical Operations	Shivajirao S. Jondhale College of Engineering, Dombivili	Prof.S.D.Ayare	27/01/17
04	CET-I & CET-II	Data Meghe College of Engineering	Prof.R.G.Nalwal a	20/02/17
5.	Chemical Reaction Engineering II	Thadomal Shahani Engineering College, Bandra	Prof. S. P. Tekade	10/02/15
6.	Process dynamic control	D. J. Sanghvi College Of Engineering, Vile-Parle	Prof. R. G. Nalwala	08/09/15
7.	Process Equipment	Datta Meghe	Prof. S. K.	24/09/15

	Design	College Of Engineering, Airoli	Vishwakarma	
8.	Process Engineering	Datta Meghe College Of Engineering, Airoli	Prof. P.R. Sukhadeve	24/09/15
9.	Petroleum refining and Technology	D. J. Sanghvi College Of Engineering Vile-Parle	Prof. J. V. Mapara	13/10/15
10	Energy system Design	Thadomal Shahani Engineering College, Bandra	Prof. S. P. Tekade	16/01/16
11	Advanced Separation Technology	Thadomal Shahani Engineering College, Bandra	Prof. S. M. Teli	16/01/16
12	Modelling, Simulation & Optimization	D. J. Sanghvi College Of Engineering, Vile-Parle	Prof. R. G. Nalwala	23/01/16
13	Environmental Engineering	Datta Meghe College Of Engineering, Airoli	Prof. J. V. Mapara	12/02/16
14	Project Engineering & Entrepreneurship Management	Datta Meghe College Of Engineering, Airoli	Prof. S.V. Sutar	12/02/16

2) Computer Engineering

Sr. No.	Name of Program	Venue	Faculty Attended	Date
1	Structured Programming Approach (FEC205)	Vidyalankar Institute of Technology, Wadala (E), Mumbai	Prof.. R.B.Pawar	13/01/17
2	Microprocessor	SFIT, Borivali	Prof. Patil P.P.	18/7/14
3	Software	SPIT Mumbai	Prof. Modani	06/01/15

	Engineering		D.G.	
4	Human Machine Interaction	SPIT Mumbai	Prof. Pawar R.B.	06/01/16

3) Electronics and Telecommunication engineering

Sr. No.	Name of Program	Venue	Faculty Attended	Date
1	Basic Electrical Engineering	B.V.C.O.E, Kharghar, Navi Mumbai	Mr. S K Muchande	04/08/16
2	Image and Video Processing	Rajiv Gandhi Institute of Technology, Mumbai	Prof. S. D. Latkar	17/07/15
3	Microwave and RADAR Engineering	VIT, Chembur	Prof. S. S. Tathare	15/07/15
4	Industrial Electronics	Fr. C. Rodrigues Institute of Technology, Vashi	Prof.. S K Muchande	05/02/15
5	Object Oriented Programming Methodologies	Rajiv Gandhi Institute of Technology, Mumbai	Prof. D. G. Modani	12/07/13
6	Digital electronics	K. J. Somaiya Sion	Prof. S. N. Pandharkame	09/07/13
7	Analog electronics	SPIT	Prof. S. N. Pandharkame	08/07/13

4) Civil Engineering

Sr. No.	Name of Program	Venue	Faculty Attended	Date
2016-17				
1	Syllabus setting committee, University of Mumbai (10/01/17)	Kalsekar College of Engineering, Panvel	Prof. G. D. Parulekar	10/01/2017
2	Syllabus setting	Kalsekar College	Prof. S. S. Patil	10/01/2017

	committee, University of Mumbai (10/01/17)	of Engineering,Panvel		
3	Syllabus setting committee, University of Mumbai (10/01/17)	Kalsekar College of Engineering,Panvel	Prof. S. S. Patil	10/01/2017
2012-13				
1	Syllabus setting committee		Prof. S.S.Nandgaonkar	1/02/2013

5) Mechanical Engineering

Sr. No.	Name of Program	Venue	Faculty Attended	Date
01	Production Process- III	D.J.Sanghvi College of Engg. Vileparle	Pranit M. Patil	04/08/14
02	Theory of Machine-II	S.S. Jondhale College of Engineering, Dombivli	P. P. Pawaskar	30/07/14
03	Metrology & Quality Engg	D.J.Sanghvi College of Engg. Vileparle	J. Y. Acharya	03/02/15
04	CAD/CAM/ CAE	Pillai College of Engineering, Panvel	P. N. Jadhav	11/08/15

6) First Year Engineering

Sr. No.	Name of Program	Venue	Faculty Attended	Date
1.	Orientation Program on AM-III (EXTC)	Shah & Anchor Kuttchi Colleg of Engg., Chembur, Mumbai	Prof. Potdar B S	10/07/13
2.	Orientation Program on AM-IV (EXTC)	K.J. Somaiya College of Engg. Vidyavihar, Mumbai	Prof. Potdar B S	30/12/13
3.	Orientation Program on AM-III (Civil & Mechanical)	Sarswati College of Engg. Kharghar	Prof. Tambe A M S	8/07/13

4.	Computer Programming & Numerical Methods	D.J. Sanghavi College of engg., Vile Parle, Mumbai	Prof. Ms. Mhetre P S	23/08/13
5	Business Communication and Ethics	Shah and Anchor kutcchi Engineering College	Prof. Mane S. S.	19/07/14
5.	Operation Research	D.J. Sanghavi College of engg., Vile Parle, Mumbai	Prof. Ms. Phatak S S	25/03/15
6	Applied Mathematics-I & II	Saraswati College of Engg, Kharghar	Prof.Podtar B.S	2/8/16
7	Applied Physics I&II	Don Bosco Institute Of Tech	Prof. Lahane M.N	27/7/16
8	Applied Chemistry I&II	Bharti Vidyapeeth college of Engg	Prof Dhawale S.K.	3/8/16

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If ‘yes’, give details on the process (Needs, Assessment, design, development and planning) and the courses for which the curriculum has been developed.

Few courses require additional content to be delivered. For the courses identified a curriculum is developed by the concerned teacher. The process of which is discussed below.

a) Need/ gap analysis and Assessment:

While delivering the curriculum prescribed by the university, teacher recognizes and lists the need and gap in the content taking into consideration the relevance and importance of the content to the industry or profession. The process used to identify the curriculum gap was

- Feedback from the stake holders.
- Feedback from the various workshops and group discussions held specifically to indentify curriculum gaps.
- External Examiners who came for student evaluation.

b) Curriculum design and development:

Based on the feedback received from stake holders, a draft curriculum is proposed by the concerned teacher. The curriculum proposed is discussed

in departmental meeting on the basis of its relevance and significance. A final approval is accorded to the curriculum by module coordinator and programme coordinator and then it is shared with the stake holders. Modifications suggested are incorporated and curriculum is re-discussed in departmental meeting and the curriculum is finalized.

c) Planning and delivery:

The course with specified curriculum is offered to the group of students through invitation or through display on notice board. Students enroll for the said course with the course coordinator. A full schedule for delivery of the course is developed in consultation with resource person and students. The course coordinator is entirely responsible for planning, delivery and assessment of course.

Following is the list of courses identified and delivered in last three years:

Sr. No	Name of Course	Duration in Hours	Resource Person	Beneficiary
1	Microcontroller Lab on SPJ & Simulation Software	10	Prof. Munghate S. C.	SE & TE EXTC students
2	Understanding Networking Using Packet Tracer	10	Prof. Tathare S. S.	TE & BE EXTC students
3	MATLAB Fundamentals	16	Prof. Oak P. V.	SE & TE EXTC students
4	PCB Designing	20	Prof. Mohite M. A.	SE & TE EXTC students
5	Solid modelling using Autodesk Inventor	20	Prof. Pranit Patil	SE Mech students
6	Simulation using Ansys	12	Prof. Khalkar Vikas	BE Mech students
7	“C language”	20	Prof. Londhe D.N. & Prof. Balpande M.R.	SE, TE, BE Comp. Students
8	“PHP”	35	Prof. Pawar R.B. & Prof. Gajmal K.M.	SE, TE, BE Comp. Students
9	Android Programming	30	Prof. Kalokhe P.R. & Prof. Bhosale A.A.	SE, TE, BE Comp. Students

10	“Switching & Routing in Computer Networks.”	30	Prof. Borade J.G. & Prof. Rane V.N.	SE, TE, BE Comp. Students
11	“C++ Programming”	24	Prof. Modani D.G. & Prof. Patil P.P.	SE, TE, BE Comp. Students
12	HTML & CSS3	20	Prof. Barhate D. & Prof. Khandake M.A.	SE, TE, BE Comp. Students
13	Latex	20	Prof. Pawar R.B.	SE, TE, BE Comp. Students
14	Computational Method	15	Prof. Nalwala R.	BE Chem. students
15	Basic Course in CFD	15	Prof. Tekade S. P.	TE, BE Chem. Students
16	Total Station	12	Prof. Kamble V. D.	BE Civil Students
17	Basic Course in Android Application	12	Mr. Sampuran Sing	FE all branches
18	Prerequisite course for Engineering	12	DAC	FE all branches

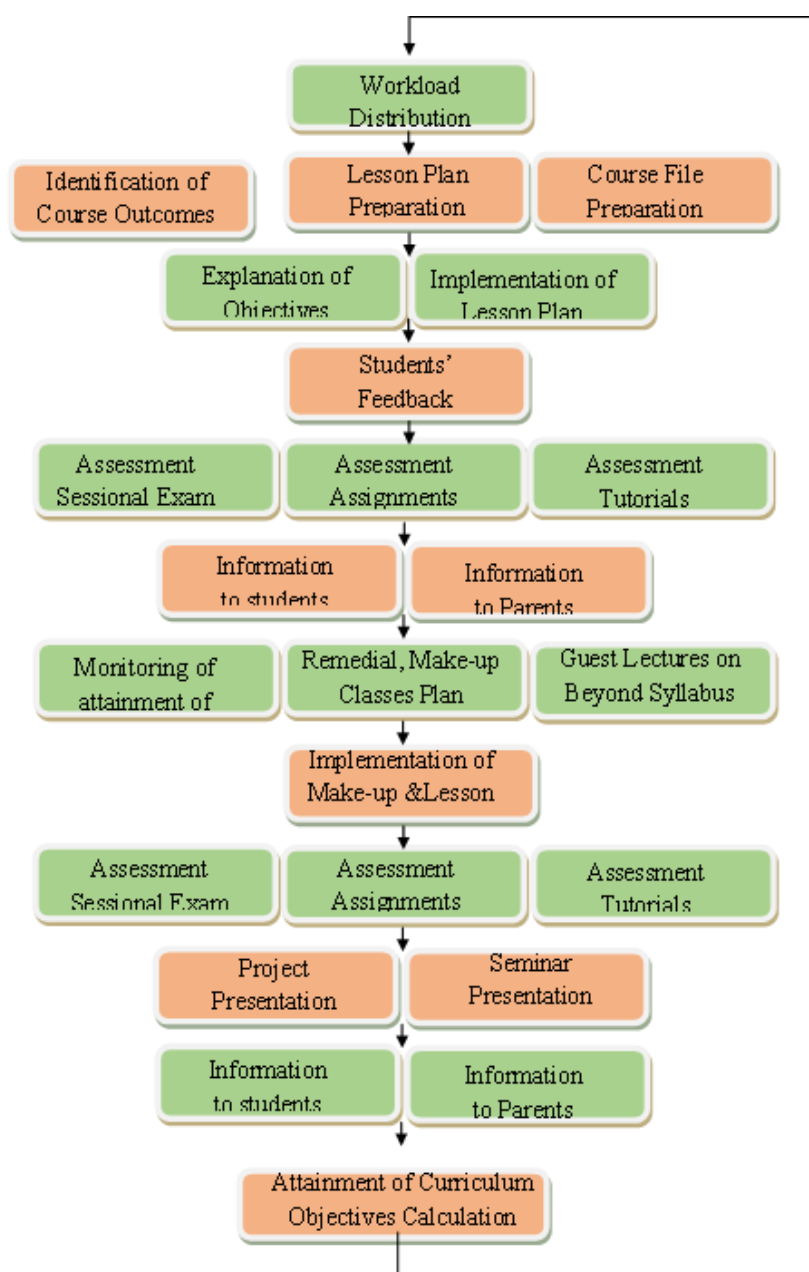
1.1.8 How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?

Methods of analysis to ensure that the stated objectives of curriculum are achieved in the course of implementation are as follows:

- Teaching work load is allotted before the start of the semester.
- All faculty members identify the course outcomes in each course to achieve stated program outcomes.
- Faculty members explain course outcomes and module outcomes to the students at the beginning
- Faculty prepare lesson plan and delivers it for effective completion of the curriculum on time. The Course File consisting of lesson plan, assignment questions and university question papers will be distributed before the start of semester.
- The assessment of effective coverage and achievement of course outcomes is carried out regularly for Sessional exams, Assignments, Tutorials laboratory/project work, end semester exam. The level of achievement is informed to the stakeholders (Students and Parents)

regularly. Remedial and makeup classes are planned for further improvement.

- The faculty members are required to prepare Course File in every semester, which is evaluated by the head of the department.
- Guest lectures are arranged to cover the identified content beyond syllabus.
- The practicals and term work are continuously monitored for effective hands on training to the students.
- Students are encouraged to carry out project based learning.
- Students are encouraged to select and carry out projects in collaboration with the industry and research organization.



Every semester academic review is carried out in each department by the core team and progress is reviewed and clear targets will be given to each faculty and the department such that institute progresses towards its stated vision and mission.

Overall effectiveness of attainment of curriculum is also measured through program educational objectives. The Program Educational Objectives are established through a process involving the core constituents such as: Students, Faculty, Alumni, Employer, Internal Quality Assurance Cell, Program Assessment Committee, and Departmental Advisory Board. The Program Educational Objectives are established in the following manner:

1. Vision and Mission of the Department is taken as a basis to interact with various stake holders. Graduate attributes defined by NBA are also considered while defining the Program Educational Objectives.
2. Program Coordinator (HOD) consults the key constituents and collects their views and submits the views to Program Assessment Committee.
3. Program Assessment Committee summarises the collected views and forwards the same to Departmental Advisory Board with their comments.
4. Department Advisory Board deliberates on the views expressed by the Program Assessment Committee and formulates policy based on which PEOs are established.

1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives, give details of the certificate/diploma/skill development courses etc., offered by the institution.

Following objectives/goals are broadly followed by all departments across the institution:

- To inculcate such employable skills in graduates to enable him to acquire traits required for entrepreneurial attributes.
- To build the abilities to deal with the Engineering challenge using fundamental concepts of basic sciences.
- To transform individual into professional to lead a key position in industry.

Software development language skills are imparted to the students to improve their employability. Software training programs are conducted periodically to motivate students to become developer.

College organizes small workshops to develop students' skill such as "Workshop on CFD" conducted on 10th September 2015. College is also

offering following government skill development program like “Swargiya Pramodji Mahajan Kaushalya Vikas Yojana” for industry professionals and dropouts of school/unemployed youth of the region in which the college is located. Faculty and staff of the college are certified trainers. Though, the college degree students are not eligible to enroll for the course, our college is trying to involve the students in the course delivery.

Sr. No.	Course Name	Course Code	Sector
1	Arc & Gas Welder	Fab701	Fabrication
2	Basic Wood Work	Woo101	Wood Work And Furniture
3	Basic Fitting & Measurement	Pla101	Plastic Processing
4	Assistant Plumber	Con705	Construction
5	Mason	Con714	Construction
6	Process Attendant Chemical Plant	Che202	Chemical
7	Instrument Attendant Chemical Plant	Che205	Chemical
8	Computer Hardware Assistant	Ict703	Information And Computer Technology
9	Computer Network Assistant	Ict704	Information And Computer Technology
10	Electrician Domestic	Ele701	Electrical
11	Repair Of Domestic Electronic Appliances	Elc701	Electronics

1.2.2 Does the institution offer programmes that facilitate twinning/dual degree? If ‘yes’, give details.

Institution does not offer twinning /dual degree but runs skill development programme and certification courses offered by different government agencies.

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

a) Range of Core/Elective options offered by the University and those opted by the College

The list of various subjects offered as electives by Mumbai University, Mumbai to which the institute is affiliated, is given below. The choice of elective courses is offered to undergraduate students in B.E. programs.

The college offers undergraduate studies in 5 disciplines namely,

1. Computer Engineering
2. Electronics and Telecommunication Engineering
3. Civil Engineering
4. Mechanical Engineering
5. Chemical Engineering

Depending on the syllabus set by the University Board of Studies for various branches, electives are offered to the students. The students are explained various electives and their learning objectives and scope. They are asked to submit their choices and preferences. Then, depending on the number of students opting a subject and availability of resources for the same, electives are offered and taught.

Below are the electives for various undergraduate branches as offered by Mumbai University:

B.E. (Department: Chemical Engineering)

Sr. No:	Academic Year	Semester	Elective Offered
1	2016-17	VII	Petroleum Refining Technology
		VIII	Advanced Separation Process, Nanotechnology, Advanced Transport Phenomena
2	2015-16	VII	Petroleum Refining Technology
		VIII	Advanced Separation Process, Nanotechnology
3	2014-15	VII	Petrochemical & Refining Technology
		VIII	Industrial Safety
4	2013-14	VII	Petrochemical & Refining Technology
		VIII	Industrial Safety
5	2012-13	VII	Petrochemical & Refining Technology
		VIII	Industrial Safety

B.E. (Department: Civil Engineering)

Sr. No:	Academic Year	Semester	Elective Offered
1	2016-17	VII	Solid Waste Management
		VIII	Industrial Waste Treatment
2	2015-16	VII	Solid Waste Management
		VII	Pre-Stressed Concrete
		VIII	Industrial Waste Treatment
		VIII	Building Services
3	2014-15	VII	Solid Waste Management
		VII	Pre-Stressed Concrete
		VIII	Industrial Waste Treatment
		VIII	Building Services
4	2013-14	VII	Solid Waste Management
			Advanced Foundation Engineering
			Air Pollution
			Pre-Stressed Concrete
		VIII	Industrial Waste Treatment
			Building Services

B.E. (Department: Computer Engineering)

Sr. No:	Academic Year	Semester	Elective Offered
1	2016-2017	VII	Erp And Supply Chain Mgmt
		VIII	Adhoc Wireless Networks
2	2015-2016	VII	Erp And Supply Chain Mgmt, Software Architecture
		VIII	Adhoc Wireless Networks
3	2014-2015	VII	Project Management
		VIII	Advanced Internet Technology, Human Computing Interaction
4	2013-2014	VII	Project Management, E-Commerce
		VIII	Advanced Internet Technology, Human Computing Interaction

B.E. (Department: Electronics and Telecommunication Engineering)

Sr. No:	Academic Year	Semester	Elective Offered
1	2016-17	VII	Data Compression & Encryption
			Nural Network & Fuzzy Logic
		VIII	Telecom Network Management
			Speech Processing
2	2015-16	VII	Data Compression & Encryption

		VIII	Telecom Network Management
3	2014-15	VII	Data Compression & Encryption
		VIII	Digital Image Processing
		VIII	Satellite Communication
4	2013-14	VI	Radar Engineering
		VI	Digital Telephony
		VII	Data Compression & Encryption
		VIII	Digital Image Processing
		VIII	Satellite Communication

B.E. (Department: Mechanical Engineering)

Sr. No:	Academic Year	Semester	Elective Offered
1	16-17	VII	Supply Chain Management
			Operation Research
			Power Plant Engineering
		VIII	Automobile Engineering
2	15-16	VII	Power Plant Engineering, Operation Research, Energy Management
		VIII	Process Equipment Design , Automobile Engineering
3	14-15	VII	Power Plant Engineering, Supply Chain Management
		VIII	Business Process Reengineering, Renewable Energy Sources
4	13-14	VII	Power Plant Engineering, Supply Chain Management
		VIII	Business Process Reengineering, Renewable Energy Sources

b) Choice Based Credit System and range of subject options: No

The choice based credit system does not exist to affiliated colleges in Mumbai University.

c) Courses offered in modular form: All courses offered by the institute are in the modular form.

d) Credit transfer and accumulation facility: No

The credit transfer system does not exist to affiliated Colleges in Mumbai University.

e) Lateral and vertical mobility within and across programmes and courses:

Lateral and vertical mobility in limited sense is available in the form of lateral entry and Branch transfer at second year. This is strictly governed by policies laid down by Directorate of Technical Education, Government of Maharashtra.

f) Enrichment courses:

All departments of the institute organize the different enrichment programmes like industrial visits, technical workshops, industrial training, etc. The list of such enrichment courses is mentioned in 1.1.7

1.2.4 Does the institution offer self-financed programmes? If ‘yes’, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc. :

As the institute falls under the category of unaided private institute, all programmes are self-financed as the institute is under the category of an unaided institute and all programmes are approved by AICTE.

Admission:

Admissions to all UG Programmes are conducted according to Director of Technical Education (DTE) rules and regulations. For more details, www.dte.org.in

Curriculum:

Curriculum for each programme is designed at Board of Studies level, Mumbai University, Mumbai according to the university norms.

Fee Structure:

The tuition fee is as per SHIKSHAN SHULKA SAMITI; Mumbai University rules and is subject to revision. The revised fee will be binding on the candidates. Details are available on www.sssamiti.org.

Teacher Qualification:

The institution has appointed well qualified, experienced faculty members who possess good subject knowledge. Appointments are done on the basis of UGC and AICTE Qualification prescribed. (www.ugc.nic.in and www.aicte-india.org)

Salary:

The institute follows sixth pay scale for the entire faculty who fulfill AICTE/UGC norms and are approved by University of Mumbai.

1.2.5 Does the College provide additional skill oriented programmes, relevant to regional and global employment markets? If ‘yes’ provide details of such programme and the beneficiaries. Yes

College is offering government skill development program like “Swargiya Pramodji Mahajan Kaushallya Vikas Yojana” for industry professionals. The

VPT training is offered in regular & week end batch mode. Institute staffs are working as a trainer for these courses. The currently GIT-VPT center known as GIT- SKILLS offers 11 courses from seven sectors under the state government scheme “Pramod Mahajan Kaushalya Vikas Udyojagkta Abhiyan (PMKVUA). 333 students have been enrolled out of 460 student registrations for the training programs.

Authorities:

1. **Controlling Authority:** Directorate General of Employment and Training, Ministry of Labor and Employment, Govt. of INDIA
2. **Affiliation:** Directorate of Vocational Education and Training, (DVET) Govt. of Maharashtra.
3. **Certifying Authority:** National Council of Vocational Training (NCVT).
4. **Assessing Body:** Regional Directorate of Apprenticeship & Training (RDAT) and Directorate of Vocational Education and Training (DVET).

Faculty and Staff involvement:

As the scheme is initiated for lower skill set as compared to regular academics taught in the institute and required qualification for being trainer of Skill Training Centre, total 24 trainers are available for quality training of students accompanied by art of the state infrastructure at institute. 19 teaching staff who is post graduated and 5 technical staff members are working as a trainer in skill training centre of GIT.

Involvement of teachers and staff benefits in two ways, one is that teachers who are highly qualified gets revision of basic skill sets and improves interaction with outside world. The other way benefits the students in form of quality learning and hands on practical.

Student participation:

Participation of students is large in number as no other such a huge skill training centre is available in the district as well as in the region. The scheme is oriented to satisfy industrial need of skilled manpower and not only it concentrates on training but also it has good provision of placement and entrepreneurship.

1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice” If ‘yes’, how does the institution take advantage of such provision for the benefit of students?

At present there is no provision for combining conventional and distance mode of education within university of Mumbai.

1.3 Curriculum Enrichment

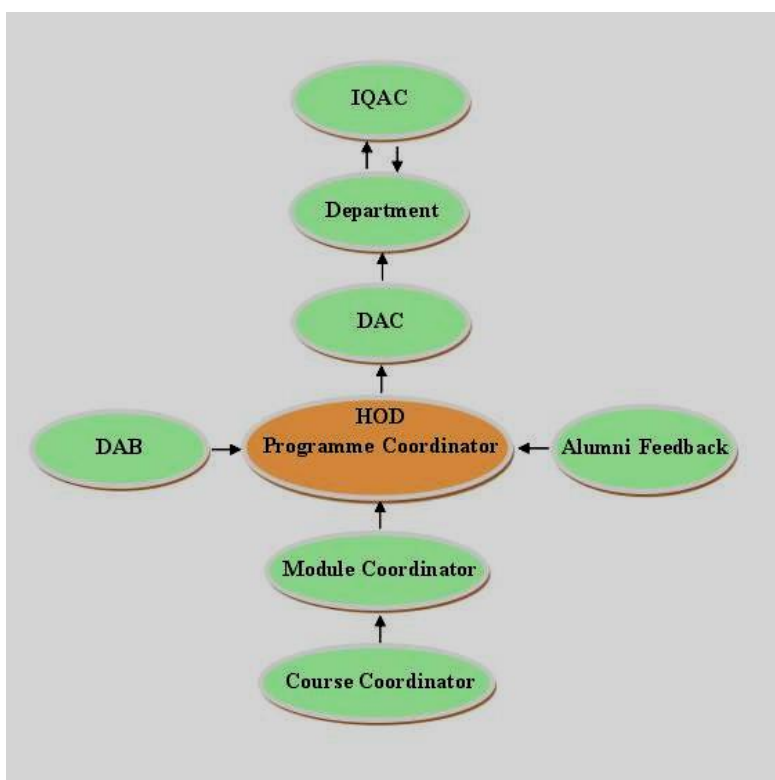
1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?

The institute takes the best efforts in meeting the goals and institute objectives. The curriculum is one of the main tools to prepare students in achieving Objectives. Therefore, the relevance of the courses in the program specific curriculum to academic programs needs be quantified in order to establish their level of support to institutional objectives. The manner in which each institutional objective is addressed in the program curriculum is summarized below.

The model curriculum suggested by AICTE, New Delhi for the UG course in Engineering and Technology is shown below,

Course Component	AICTE Recommended components (in credits)
Breadth (Mathematics and Basic Sciences)	30
Professional Electives	20
Engineering Science including Materials, Workshop, Drawing, Basics of Electrical/ Electronics/ Mechanical / Computer Engg.	30
Humanities and Social Sciences	14
Professional Core	50
Open Elective	12
Project / Seminar/Seminar	20
Mandatory Courses like NSS, Industry visits Etc	-

Following administrative setup exists to ensure the attainment of PEOs



- Course Coordinator (subject teacher)
- Module Coordinator (any senior faculty from same subject or Class-teacher)
- Program Coordinator (HOD)
- Program Assessment Committee (HODs and senior faculties)
- Department Advisory Board. (Senior faculties from department and all Module co-ordinators)
- Internal Quality Assurance Cell (IQAC) (Academic audit co-ordinator, Feedback co-ordinator and others)
- Alumni Association

Apart from above a scope is available for faculty members to introduce skill developments Program under continuing education cell, Entrepreneur development cell, Collaboration with industry to enhance specific skills. Guest lectures are arranged from subject experts on specific part of syllabus or on part not in syllabus but are the need of the industry. Different departmental programme on emerging fields of engineering are arranged where students get lot of exposure to the happening of the state of art research from distinguished academia or persons from industry. Institute organizes national level paper presentation competition titled Shodh since 2007 till date. Students and faculty members organizes this event. Students get opportunity to learn leadership skills as well technical skills. Institute organizes technical festival every year

in which innovative competitions are conducted for the students in the region. All the activities are carried out with due respect to environment of mother earth. The Institute undertakes research projects. Students are encouraged to participate in the research projects. Faculty members compete to get research grants from AICTE. Students get advantage of designing projects and experiments based on advanced laboratory facilities. These activities carried out at the Institute level and students' participation in it results in either good placement for student or admission to ME/M. Tech Program in India.

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

- The institute has signed MOU with the different important organisations to facilitate the training of students. The institute organises various skill development programmes to increase the employability of the students.
- Every department of the institute has the students' association. Students association organises various technical programmes like expert talks, workshop, poster presentations, etc
- The institute hosts the national level technical symposium called SHODH every year. SHODH has the competitions like paper presentations, poster presentations, quiz and other departmental technical events.
- The institute has the student chapter of various professional agencies like ISTE, IChE, etc under which various activities/events are organised.
- The institute has well organized Training and Placement cell. TPO has been appointed to take care of placements of students in industry. The training and placement cell of the college regularly interacts with the HR managers of companies and collects first hand information about the demands and expectations of the corporate sector regarding skill set of students.
- The students are continuously guided for the exams like GATE and extra classes are arranged for the interest students.
- Institute also provides the study materials like books in library for the different competitive civil service examinations.
- The institute organises the various soft skill programmes to enhance the communication and leadership qualities of students. The institute also organises the expert talks and guest lecturers of eminent personalities from industry and institutes to make up the deficiencies in the students to make them employable.

S N	Title of the programme	Department of beneficiary	Collaboration	Duration	Remarks
1.	Cyber Scene Investigation	Computer Engineering	Infysec Chennai	16 hrs	115
2.	Hybrid Application Development and Cross Linking Platform	Computer Engineering	TechnoCrips Technologies Pvt. Ltd., New Delhi	16 hrs	51
3.	“C#.Net with Cloud Computing”	Computer Engineering	ATS Microsoft Academy	40 hrs	31
4.	“Android Application Development”	Computer Engineering	Logicbits	30 hrs	13
5.	“C++ Programming”	Computer Engineering	Codeest software factory	24 hrs	17
6.	“Web Technologies”	Computer Engineering	Inbitec Solutions	20 hrs	24
7.	“Switching & Routing in Computer Networks.”	Computer Engineering	Yash Systems	30hrs	21
8.	“Website Development”	Computer Engineering	Codeest software factory	20 hrs	12
9.	“Android Development”	Computer Engineering	Logicbits	30 hrs	22
10.	“C language”	Computer Engineering	Codeest software factory	20 hrs	23
11.	“PHP”	Computer Engineering	Logicbits	35 hrs	36
12.	Workshop on PLC & SCADA	E&TC	Prolific, Mumbai	4 days	40
13.	Workshop on Linux & Python	E&TC	FOSS, Pune	2 days	20
14.	CCNA Workshop	E&TC & COMP	ACIT, Mumbai	10 days	33
15.	Embedded System workshop	E&TC	SHIVAKS INFO TECH PVT LTD,	2 days	20

			Mumbai		
16.	MATABOTRI CS	E&TC	RoboEdutech Pvt Ltd	2 days	49
17.	GATE Coaching	E&TC	GIT E&TC	1 day	30
18.	Fundamentals of Computational Fluid dynamics	Mech	Dr. Kaushal Prasad, F.A.M.T Ratnagiri	1 day	100
19.	Workshop on Vehicle dynamics & Engine Automation.	Mech	Robo Edutech India Pvt. Ltd.	3 Days	40
20.	Workshop on CNC operation, Programing, & Maintenance	Mech	Prof. S.S. Gajmal, Prof. P.N.Jadhav, Prof. K.G.Nikam	1 week	50
21.	Lecture on Career Guidance in Oil & Gas industries	Mech	Mr. Vasant Mestri	1 Day	44
22.	Workshop on PLC software and Hydraulic & Pneumatic Kit	Mech	Mr. Vijay Balure, KTP Tool Management Services Pvt. Ltd.	2 Days	22
23.	Total Station	Civil	Gallop Design & Construction, Pune	2 Days	52
24.	Android Application Development Workshop	FE	Dalvik Apps, Mumbai	2 Days	202

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

- Environmental Study is a common course for all first year students as per the curriculum. In this course, the basic components of Environment, their application in various fields are studied.
- Gender Equality is one of the key issues in today's world. Equal opportunity is given to the girls along with the boys in various committees. Many programmes are coordinated and organized by the girls along with boys. Women Development Cell is formed as per direction of Mumbai University. The programmes like women empowerment, celebration of women's day are conducted at the institute level.
- Anti Ragging committee is also effectively working in the institute. The institute has formed anti-ragging committee comprising of mixed gender which includes Principal, faculty representatives, and students' representatives. Boards containing list of anti-ragging committee members are displayed in college campus along with their mobile phone numbers and email address. The committee members are available to students after college hours also. Every semester, meetings of the committee members are conducted and decisions of the committee are communicated to the faculty and students. Due to active vigilance of the committee no incidence is recorded in college campus since last eight years.
- The complaints from the students in all regards from College and hostel campus are duly attended and accordingly improvement actions are made.
- In today's world information, knowledge and communication ability is playing an important role in the development of students. Students are provided with the access to internet to gain the information they need.
- GIT is remote centre for IIT-Bombay and IIT-Kharagpur under NMEICT to offer short term courses to faculty. Following courses are conducted in the institute since the inception of the centre.

SN	Dates	Workshop Topic	Coordinator	Department
1.	10– 20/07/14	Cyber Security	Prof.Dattatraya N. Londhe	Computer Engineering
2.	5/01/2015 to 7/01/2015 & 19/01/2015 to	Pedagogy for Effective use of ICT in Engineering Education	Prof.Shinde C S	First Year Engineering

	21/01/2015			
3.	30/11/2015 to 5/12/2015	Technical Communication	Prof. Mane S S	First Year Engineering

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

The institute offers various training programs/social activities to ensure holistic development of students under following categories.

• Moral and ethical values

Various student organizations and faculty coordinators conduct programmes, guest lectures and workshops for enhancement of the moral and ethical values in students. List of activity is mentioned below:

Sr. No.	Activity	Academic Year	No. of students involved
1	Celebration of Engineers Day & Teachers Day	2016-17	200
2	Personality test	2016-17	62
3	NSS	2016-17	80
4	Tree Plantation	2016-17	40
5	Blood Donation	2016-17	87
6	Maitri Sang	2016-17	2
7	Swachh Bharat Abhiyan	2016-17	40
8	Personality test	2016-17	62
9	A one day workshop on “How to be successful in life” by Vivekanand Pratisthan, Kanyakumari	16/08/2015	20
10	Tree Plantation	2013-14, 2014-15, 2015-16	Open to all students
11	Blood Donation	2013-14, 2014-15, 2015-16	Open to all students
12	Street Play	2013-14, 2014-15, 2015-16	30
13	Maitri Sangh	2013-14, 2014-15, 2015-16	Open to all
14	Swaccha Bharat Abhiyan		

15	Swaccha Bharat Abhiyan	2015-16	All students
16	FREEDOM RUN 2013	Every year	Open to all
17	Exhibition of books (central library)	Every year	Open to all
18	Yoga programme	2014-15, 2015-16	Open to all
19	Art of Living	2014-15, 2015-16	Open to all
20	Shiv Jayanti Celebration	Every year	Open to all
21	Dr. Ambedkar Jayanti Celebration	2014-15, 2015-16	Open to all
22	Lecture on “ Development of moral values”	2012-13	Mechanical students
23	Work shop on “How to be successful in life”	2015-16	Mechanical students
24	Essay Writing Competition	2013-14, 2014-15	Open to all
25	Elocution Competition	2013-14	Open to all
26	Yoga day celebration	2015-16	Open to all
27	Drawing, Rangoli & Elocution Competition for ZP School in Lote Competition.	16/10/2015 to 17/10/2015	Open to all
28	Celebration of Women’s day	2014-15, 2015-16	Open to all
29	Celebration of Teachers day	Every year	Open to all
30	Celebration of Engineers day	Every Year	Open to all

• **Employable and life skills**

To increase the employability of the students, there are several value added workshops and activities are organized in the institute. Details are listed below

SN	DATE	ACTIVITIES/ Workshops	RESOURCE PERSON
1	27/7/2015	Group discussion activity for TE & BE Students	Prof. S C Munghate & Prof. M. A. Mohite, GIT
2	27/07/15	Video Seminar on “Power of Focus for students ”	Sandeep Maheshwari

3	1/08/15	Seminar on “ANTI COLLISION DEVICE”	Mr. S.N.Todkar
4	3 /08/15	DIGITAL INDIA week-presentation competition	E&TC Dept.
5	10/08/15	Quantitative Aptitude Test for TE & BE Students	E&TC Dept
6	17/08/15	Seminar on “Benefits of attending and presenting Papers in National & International conferences”	Prof.P.V.Oak, GIT
7	22/08/15	Introductory lecture and interaction with students	Mr. Milind Patil (TPO), GIT
8	24/08/15	Seminar On “Professional Certifications based on Industry Oriented Approach”	Prof. K. M. Gajmal,GIT
9	24/08/15	Seminar on “Use of Reference Books in Engineering Studies”	Prof.S.C.Munghate & Prof.S.R.Khedekar,GIT
10	24/08/15	Technical aptitude test for TE & BE Students	E&TC Dept
11	07/09/15	“Technical Paper PPT presentation to be presented in National/International conferences”	Prof.P.V.Oak,GIT
12	14/09/15	Seminar on “How to make a Synopsis” by Prof P.V.Oak	Prof.P.V.Oak,GIT
13	14/09/15	Seminar on “How to make a Review	Prof. S.S.Tathare,GIT

		Paper”	
14	30/09/15	One day seminar on “MATLAB “	ADCC Infocad Ltd.
15	06/10/15	One day Seminar on “Industrial Automation “	TAACT, Nashik
16	07/10/15	Cisco Certification Importance for Engineers	Mr. Rohit Pardasani, Founder, ACIT, Mahim
17	19/01/16	“Use of Electronics Technology in Product base Learning” -TE students	Prof. Rasika Burte, GIT
18	22/01/16	“Use of Electronics Technology in Product base Learning” -SE students	Prof . Rasika Burte, GIT
19	23/01/16	Numerical aptitude test for BE Students	Prof.S K Muchande,GIT
20	02/02/16	Seminar on “Cyber and Mobile Security”	Mr. Nishant Sharma, Microsoft Technologies
21	23/02/16	Seminar on “How to study and write examination papers”	Prof. S.D.Latkar, GIT
22	25/02/16	Construction Industries visit in Ratnagiri.	Mr.Milind Patil & Prof. V.D.Kamble.
23	19 /08/16	Guidance for GATE Preparation	Prof. Sameer Gajmal
24	12/08/16	Career Advances in Selenium Web Driver	Mr.Rahul Sharad Gaekwad [Seed Infotech Ltd]
25	05 /08/16	Expert Lecture on Resume Writing	Mr.Vinit Dholye [Hindustan Unilever Ltd,Mumbai]
26	03 /08/16	Expectations of Companies from Fresh Engineering Graduates	Mr.Amit Thakur [HR, Hindustan Unilever Ltd,Lote]
27	28/01/15	Seminar on Corporate World	Mr, Ajit

28	10/02/15	Guest lecture on Carriers in Infrastructure/Construction industry.	Dr.Arun Mudbidri. Principal SAMVIT,Pune.
29	30/09/14	Awareness Programme in the Field of oil & Gas Industries.	Mr.Vasant Mestry,SIT.
30	27/01/15	Corporate Meet	GCL Industrialists
31	03/02/14	Training for Success - 2	Prof Devendra Pandey
32	11/01/14	Training for Success-1	Prof Devendra Pandey
33	24/08/13	Employable Graduate Program	Mr.Rakesh Jadav.
34	27-29/08/12	Employability Building Workshop	Person from Sadhana Center For Leadership Development, Pune
35	5-07/03/13	Entrepreneurship awareness Camp	Mr. R. R. Kandalgaonkar, from Maharashtra center for Entrepreneurship development
36	04/09/15	Guest Lecture on “Interview Skills”	Mrs. Anuradha Sonawane
37	11/09/15	Guest Lecture on “Soft Skills”	Mrs. Anuradha Sonawane
38	18/01/14	Lecture on “Ratnagiri District Industries Conference	Mr. Ramchandra Bhogale, North Ratnagiri Industry Association
39	07/08/15	Lecture on, Machine Design online	Kedar Shethia, Executive Sales Engg, Feast Software Pvt. Ltd
40	20/10/12	Lecture on Refrigeration & Air Conditioning	Mr. Mahesh Suryarag, Ganesh Ice Factory, Lote.
41	12 to 13/03/16	Total Station Workshop	Mr.Dayanad Kale. GALLOP Design &Construction,
42	25/02/16	Construction Industries visit in Ratnagiri.	Mr.Milind Patil & Prof. V.D.Kamble.
43	13/02/17	IBPS IT Officer Training	Prof. S. S. Tathare

44	14/02/17 & 15/02/17	Java Expert Lecture	Prof. Gajmal K. M
45	15/02/17	C++ Expert Lecture	Prof. Khandke M. A.
46	4 to 6/02/17	Robowars	Mr. Sharad Tiwari
47	22/01/17	TV Workshop	Mr. Hari Pol
48	20/09/16	Webinar on “Embedded Systems”	Mr. Sharad Tiwari
49	20/09/16	Webinar on “Recent Trends in IT Industry”	Miss. Sayali Yewle
50	21/09/16	Industrial Automation & Robotics Seminar	Mr. Vinay Kumar & Mr. Deepak Jaiswal
51	14/08/16	BIG DATA & HADOOP	Mr. Amit Koli
52	06/08/16	IIT Bombay projects	Mr. Rohan Kharade
53	08/07/16- 10/07/16	Aptitude Training	Mr. Mandar Zarekar
54	27/7/15	Group discussion activity for BE Students	Prof.R.I.Hujare
55	28/01/15	Seminar on Corporate World	Mr, Ajit
56	10/02/15	Guest lecture on Carriers in Infrastructure/Constru ction industry.	Dr.Arun Mudbidri. Principal SAMVIT,Pune.
57	27 to 29/08/12	Employability Building Workshop	Person from Sadhana Center For Leadership Development, Pune
58	05 to 07/03/13	Entrepreneurship awareness Camp	Mr. R. R. Kandalgaonkar, from Maharashtra center for Enterprenaurship development
59	09/11/16 to 13/11/16	STTP on ANSYS FLUENT CFD software training	Jaswant Ravula CFD lead Engineer (Innovent Pvt Ltd Bangalore)

60	06/10/16 to 07/10/16	ASPEN Hysys	Sumit (Monkfox)

• **Better career options:**

Guest lectures and workshops are arranged by every department of the institute every year to expose students to new fields and new opportunities in the industry, self employment and post graduation. Few of the conducted activities are listed below.

SN	Date	Activity	Resource
Civil Department			
1	30/10/14	Awareness programme in field of oil gas and power sector.	Mr.Vasant D Mestry.
2	10/02/15	Carriers in construction industry.	Dr. Arun Muddidri Founder and Principal director of SAMVIT Pune.
3	13/02/17	M.B.A. Entrance	Prof.Satish Kadam
Chemical Department			
1	17/01/17	How to crack GATE	Mr.Harishshankar K.V (GATEWAY INSTITUTE, PUNE)
2	21/01/17	Campus Connect Opportunities in Process Design	Mr.M.B.Thakur (Manager Process and Design)
3	09/02/17	U for Jobs or Jobs for U	Rudranath Das
4	27/02/15	Career Opportunities	Mr. Nilesh Sarawate
5	11/03/16	Career building opportunities in some niche engineering fields	Mr. Nilesh Sarawate
6	05/03/15	Career options and development quality manpower for industrial and other sector	Mr. Nilesh Sarawate
7	30/06/14	Awareness program in the field of oil and gas process industries	Mr. Vasant Mistry
8	28/01/15	Seminar on corporate world	Mr. Ajit
Computer department			
1	30/03/16	Expert talk on higher studies	Mr. Nilesh Sarawate

	11/03/16 18/04/15 03/03/15 27/02/15	and Entrepreneurship in Konkan Cha CEO's Meet	
2	23/09/13	Opportunities in Defence for Engineers	Mr. Athul Kulkarni
3	12/09/13	CDAC Seminar	MIT Representative – Arun Darekar
4	2/09/16	Seminar on Industrial Automation & Robotics	Mr. Deepak Jaiswal [Head HR, Habib Animations Pvt Ltd]
Mechanical Department			
1	03/08/16	Lecture on “Expectations of Companies from Freshers”	Mr. Amit Thakur & Mr. Amol Lovalekar (Hindustan Unilever Pvt. Ltd.)
2	05/08/16	Lecture on “Resume Writing”	Mr. Vinit Dholge (Hindustan Unilever Pvt. Ltd.)
3	03/02/16	Guidance for Placement	Prof. P.N. Jadhav, GIT
4	31/07/15	Guidance & Group discussion	Prof. P.N. Jadhav, GIT
5	26/02/15	Seminar on “Corporate World”	Dr. Sanjay Bhandari, HOD, Mech Dept, RMCET Devrukh
6	02/02/15	CAE Awareness	Mr. Nachiket U. Phadke, Chief Engineer
7	11/03/13	Lecture on “What After BE?”	Mr. Vikrant Kulkarni, Mr. Mayuresh Padvekar, Quality Assurance Executive, Prod. Planning Executive, J.K. Files Pvt. Ltd.
8	23/09/13	Lecture on “Career in Defence force for potential Engineers	Captain. S.G. Balchandra, Captain 3/1 Gurkha rifles.
9	16/08/12	Lecture on Job Opportunities for Mechanical Engineering Students	Mr. Tejas Chari, Assistant Engineer, Maintenance Dept, Bhushan Steel Ltd,

			Khopoli

• **Community orientation:**

The institute makes students aware regarding their responsibility towards society and inculcate it at early stage of their corporate or professional life. The institute deputed a team of faculty members to organize such programs. NSS is one of the strong contributors. Through NSS students participate in well organized activities listed below:

NSS activity: Year 2016-17

SN	Date	Program	Details	Venue
1	02/09/16	Swachhata rally	For awareness of the people regarding Swachhata	Lavel
2	24/09/16	Blood donation	Donate 80 bags to Jankalyan blood bank, Mahad.	Hostel, GIT
3	28/09/16	Mandir Swachhata	To clean the Mandir area	Lavel
4	15/10/16	Plastic free GIT	To clean GIT campus and making it as plastic free	GIT, Lavel
5	15/10/16	Vachan prerana divas	To celebrate Vachan prerana divas on the occasion of late ex-President Dr Abdul Kalam's birth anniversary.	Library, GIT, Lavel
6	09/11/16	Hostel Swachhata	To clean the hostel area	Hostel, GIT
7	10/11/16	Bus stop Swachhata	To clean the bus stop area	Lavel
8	19/01/17 to 25/01/17	NSS special camp	7 days NSS special camp	Shindewadi-boraj, khed

NSS activity: Year 2015-16

SN	Date	Program	Details	Venue
1	14/08/15	Tree Plantation	140 no. of trees plant in Lavel, Awareness Rally organised in Lavel	Lavel
2	15/08/15	Independence Day	Street play	GIT Hostel

		Celebration		
3	10/12/15	Blood Donation Camp	102 no. of blood bags collected by Janakalyan Blood Bank, Mahad	GIT
4	10/02/15	Swachata Abhiyan	GIT campus Cleaning & Street play	GIT
5	19/01/16 to 25/01/16	NSS Special Residential camp	Vanarai Bandhara, Lectures, Street plays, Swachata abhiyan, Awareness Programs, Self Defence Training	GIT
6	26/01/2016	Republic Day Celebration	Street Plays & Self Defence Act	GIT

NSS activities: 2014-15

S N	Date	Program	Details	Venue
1	15/08/14	Independence Day Celebration	Street play	GIT
2	25/09/14	Blood Donation Camp	70 no. of blood bags collected by Janakalyan Blood Bank, Mahad	GIT hostel
3	10/02/14	Swachata Abhiyan	GIT campus Cleaning & Street play	GIT
4	18/01/15 to 25/01/15	NSS Special Residential camp	Vanarai Bandhara, Lectures, Street plays, Swachata abhiyan, Awareness Programs, Self Defence Training	
5	26/01/15	Republic Day Celebration	Street Plays & Self Defence Act	GIT

NSS activities: 2013-14

S N	Date	Program	Details	Venue
1	15/09/14	Blood Donation Camp	104 students donated blood	GIT, Boys Hostel

2	18/01/14 to 25/01/14	NSS Camp	NSS Camp was conducted at Vichalewadi	Vichalewadi

NSS activities: 2012-13

S N	Date	Program	Details	Venue
1	14/08/15	Tree plantation	Conducted at Lavel Grampanchayat	Lavel
2	2/10/15	GIT Swachata Abhiyan	Organized on the occasion of Mahatma Gandhi Jayanti	College campus
3	12/10/15	Blood Donation Camp	Conducted at college campus, 150 student donors and 10 faculty members, were participated	Boys Hostel GIT

1.3.5 Citing a few examples, enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

The inputs are obtained from the stakeholders regularly and further used for enriching the curriculum that helps to improve the overall competency of the students for employability. The institute has a system to collect feedback from following stakeholders in the context of curriculum:

The experts from industry are involved during the process of curriculum development at the University level.

The feedback forms collect information for following criteria-

Stakeholder	Criterion 1	Criterion 2	Criterion 3	Criterion 4
Alumni	Skills in Engineering Subjects	Problem Solving	Competitive Examinations	Marketing and Entrepreneur Skills
Industry/ Employer	Thrust areas	Aptitude development in engineering	Innovation, creativity and Engineering advances	Communication Skills
Parents	Training requirement for Placement	Continuous assessment and marking scheme	-	-

The above data is communicated to the University during revision of syllabus by the concerned senior faculty during subsequent meetings.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

The enrichment programmes conducted by the institute has always focused to increase the employability of the students and to meet the curricular gaps between academics and industry. The quality of enrichment programmes are monitored by the HOD and subsequently by the principle. The feedback process mainly concentrates on whether the stated objectives (PEOs) and outcomes (POs) are achieved or not. At the end of enrichment programme feedback is collected from the participants. Once the feedback is obtained, it is further evaluated to find the shortcomings and, or success of the program and its quality and corrections are made if necessary, for further improvements. Some of the technical workshop has the test at end which has to be passed by the participants. Certificates are issued to the participant of the technical workshops and courses.

1.4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

The structure of different programmes and syllabus are framed by the Mumbai University as the institute is affiliated to it. However, the faculty members of the Institute regularly attend workshops and seminars on revision of curriculum arranged by the University or its affiliated colleges to provide valuable feedback received from Institutes' stakeholders

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmed?

Each faculty member prepares a thoroughly studied document on course objective and course outcome at the beginning of semester. At the end of semester faculty collect course exit survey from students. Based on feedback received, the faculty modifies course outcome. The parents' meet conducted by college every semester apart from other issues enables parents to give suggestions regarding the curriculum of their wards. This is duly noted by the relevant persons in the college. The faculty members of the Institute regularly attend Orientation Programs on revision of curriculum arranged by the University. These faculties provide valuable feedback received from Institutes' stakeholders during such programs. Besides this, University regularly asks for several reports which are sent through Principal.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?)

Any other relevant information regarding curricular aspects which the College would like to include.

As Institute is affiliated to University, we are currently running courses approved by University.

However, considering the local situation and the industry trend; Institute decided to discontinue the Bachelors Programme in Information Technology from 2012-13.

CRITERION II: TEACHING-LEARNING AND EVALUATION**2.1 Student Enrolment and Profile****2.1.1 How does the college ensure publicity and transparency in the admission process?****Publicity:**

- Admission notification is published by Directorate of Technical Education (DTE), Maharashtra state in all leading national and regional daily newspapers and also on website.
- State council DTE notifies about JEE/CET examination, CAP round, and Merit rank in all news paper and publish the rank in website also. Admission are carried out through CAP process on different ARC centres across Engineering Colleges in the state of Maharashtra such as Government-Aided, UN-Aided, Autonomous colleges affiliated to state universities approved by AICET ,DTE and UGC also. Gharda Institute of Technology was one of the ARC Centres. Now it is one of the Facilitation Centre (FC).
- The advertisements for admission to different courses are published in all leading newspapers from time to time and the same is displayed on the notice board of the institute. The advertisement contains detailed information about courses, eligibility, process of admission and academic as well as support facilities.
- Admissions are done centrally through DTE and institute participates in this process by way of ARC/ FC.

Transparency:

- Transparency is maintained throughout the admission process. The admission process is strictly controlled by DTE, Maharashtra state.
- Students can fill the choice of stream and college on-line through online registration process.
- A state level, merit list is then prepared according to the intake capacity. The same is kept in the college office for public information. All admissions are strictly done through state level merit in all criteria.
- The college strictly adheres to the rules and regulations regarding admissions prescribed by the state Government and the University of Mumbai, Maharashtra.
- All the information is documented by Government and DTE and is published in news papers and website also. Admission information brochures are provided to each participating student on ARC centre near to them. Any student can get information personally from help line provided by ARC/FC centres. A separate counselling is provided

to the students having queries regarding online admission process and various cap rounds. Full transparency admission process is maintained. In this manner CAP process is being conducted by DTE, MS every year since 2009.

2.1.2 Explain in details the process of admission put in the place for UG programmes by the colleges. Explain the criteria for admission (Ex. (i) merit, (ii) merit with entrance, (iii) merit, entrance test and interview,(iv)common test conducted by the state agencies and national agencies (v) others followed by the colleges?

Admissions through Centralized Admission Process (CAP) are governed by state Government and the procedure/rules of admissions are based on common entrance test conducted by state agencies and national agency. Admissions are purely on merit basis. Present rules also stipulate for institutional Quota which are also filled purely on merit basis using same merit criteria as applicable for admissions through government agencies.

A) ENTRANCE TEST / ADMISSION CRITERIA (2015-16 and 2016-17) For Seats Under CAP

**First Year Engineering
For Maharashtra state candidate**

1. Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examinations with subjects English, Physics, Mathematics and Chemistry/Biotechnology / Biology/Technical Vocational subject.

AND

2. Secured minimum 50% marks (minimum 45% in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only) in the subjects Physics, Mathematics and Chemistry/Biotechnology/Biology/Technical Vocational subject added together.

AND

3. Obtained a positive composite score, i.e. score obtained after adding 50% of JEE (Main) 2015 (Paper 1) marks percentile and 50% of Standard XII (Board or Equivalent Examination) Physics, Chemistry and Mathematics marks percentile.

For All India candidates (Maharashtra & OMS)

1. Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of

Secondary and Higher Secondary Education or its equivalent examinations with subjects English, Physics, Mathematics and Chemistry/Biotechnology / Biology/Technical Vocational subject.

AND

2. Secured minimum 50% marks (minimum 45% in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only) in the subjects Physics, Mathematics and Chemistry/Biotechnology/Biology/Technical Vocational subject added together.

AND

3. Obtained All India Rank in JEE (Main) 2015 (Paper 1) given by CBSE

For Maharashtra state candidates (on 12th basis)

1. Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examinations with subjects English, Physics, Mathematics and Chemistry/Biotechnology / Biology/Technical Vocational subject.

AND

2. Secured minimum 50% marks (minimum 45% marks in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only) in the subjects Physics, Mathematics and Chemistry/Biotechnology/Biology/Technical Vocational subject added together.

For Maharashtra State Candidates passing Diploma in Engineering/Technology course

1. Diploma holders should have passed the Diploma course in Engineering/Technology with minimum of 50% marks (45% marks in case of backward class categories and Persons with Disability candidates belonging to Maharashtra State only) and medium of instruction as English from the AICTE approved Diploma Institutes affiliated to State Boards of technical education.

Direct Second Year Engineering

1. The candidate must be an Indian National and should have passed Post-SSC or Post-HSC Diploma Course in Engineering/Technology with at least 45% marks (40% marks in case of candidates of backward class categories and Persons with Disability belonging only to Maharashtra State) in appropriate branch of Engineering / Technology

from an AICTE approved institution with English as the medium of instruction at Diploma level.

OR

2. The candidate must be an Indian National and should have passed B.Sc. Degree from a UGC / Association of Indian Universities recognized University with at least 45% marks (40% marks in case of candidates of backward class categories and Persons with Disability belonging only to Maharashtra State) and passed XII standard examination with Mathematics as the subject and with English as the medium of instruction at B.Sc. level.

B) Admissions For Institutional Quota:-

Institute is permitted to admit certain percentage of students as notified by state government from time to time. For institutional quota candidate is selected based on the same merit criteria which is used for CAP admission process.

The admission process defined by the Directorate of Technical Education, Maharashtra State and State Common Entrance Test Cell is strictly followed by the institute for First Year Engineering and Direct Second Year Engineering admissions, which is published on their website by concerned authorities every year.

Activities done by college as ARC (during 2014-15, 2015-16 and 2016-17) and as FC (during 2016-17)

- i) Provision of admission kit activation and distribution to candidate.
- ii) Help in online form filling with personal attention.
- iii) Document verification, confirmation receipt and form submission.
- iv) Provision for checking online merit status.
- v) Help in option form filing for CAP rounds.
- v) Display of allotted students list for each round.
- VI) Confirmation of admission at ARC/Facilitation center.

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district

The details of marks at admission at entry level are given below.

- Academic year 2016-17 (CET Scoring)**

Department	GIT, Lavel		RSCOE, Pedhambe	
	Max	Min	Max	Min
Mechanical Engineering	137	32	74	34
Chemical Engineering	111	47	--	--
Computer Engineering	98	45	71	30
Electronics & Telecommunication Engineering	88	46	59	27
Civil Engineering	116	43	--	--

- Academic year 2015-16 (Percentile scoring)**

Department	GIT, Lavel Percentile		RSCOE, Pedhambe	
	Max	Min	Max	Min
Mechanical Engineering	90.17	29.01	59.38	27.33
Chemical Engineering	77.35	17.50	-	-
Computer Engineering	52.57	26.21	36.27	34.99
Electronics & Telecommunication Engineering	65.23	14.06	11.03	-
Civil Engineering	69.68	12.82	-	-

- Academic year 2014-15 (Percentile scoring)**

Department	GIT, Lavel Percentile		RSCOE, Pedhambe	
	Max	Min	Max	Min
Mechanical Engineering	85.93	40.37	63.92	40.55
Chemical Engineering	80.22	4.18	-	-
Computer Engineering	69.40	23.15	33.33	26.65
Electronics & Telecommunication Engineering	81.57	21.88	17.81	-
Civil Engineering	87.97	17.31	-	-

• Academic year 2013-14 (CET)

Department	GIT, Lavel CET		RSCOE, Pedhambe	
	Max	Min	Max	Min
Mechanical Engineering	105	46	85	63
Chemical Engineering	103	41	-	-
Computer Engineering	79	27	64	37
Electronics & Telecommunication Engineering	102	40	73	51
Civil Engineering	98	46	-	-

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If ‘yes’, what is the outcome of such an effort and how has it contributed to the improvement of the process?

- As the engineering admission process in the state is governed by Director of Technical Education of state government, institute follows rules, regulations and guidelines set by the state government.
- The institute completes 20% admission through management and remaining 80% admission are filled by DTE. Management admissions are done on the basis of merit.
- The institute has admission cell with expert team members that work round the year to get the good and meritorious students through advertisement by arranging the campaign, advertising in print and electronic media, website, seminar in school and junior colleges. The stakeholders can review the admission process and students profile annually by using visiting our admission cell. Inputs given by admission cell help stakeholders to take better decision regarding quality improvement of institute and selection of branch for student.
- The institute analyses student profile in terms of PCM and CET/AIEEE marks.
- The Institute Admission Cell is responsible to review the admission process and student profile annually. The Admission Cell of the Institute collects the detailed information about the admitted students and analyze it to categorize the students on the following aspects: Academic background, Economic status, Gender representation,

Outcome:

This helps to understand the student interest and industry trends. The data was useful in redefining the quality policy and suitable refinement in the total teaching-learning process.

Contribution to Improvement of the process:

Based on the outcome the Institute decides the strategy to improve the academic and administration systems.

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion

SC/ST, OBC, Women, Differently abled, Economically weaker sections, Minority community, any other

- Institute follows rules and regulations set by Directorate of Technical Education. It offers seats to SC, ST, OBC, women and economically weaker students as per the government norms, rules and regulations.
- Institute offers the admissions under the Tuition Fee Waiver Scheme which is mainly developed for Economically Weaker Section of the society. (per course 3 students for sanctioned intake of 60)
- There is special reservation for the candidate of J and K and government of India (Mizoram student) as per the norms.
- Also College offers certain scholarships for economically weak students. Such as, GIT Merit Scholarships, Lt. Smt. Nirmala Damodar Karandikar Scholarship, Lt. Dr. P.S. Ramanathan Endowment Scholarship, Sansthan Shridev Bhargavram Scholarship, Hostel Fees Waiver Scheme.

• **List of TFWS students:**

Sr. No.	Department	Academic Year	No. Of students
1	Electronics & Telecommunication	2016-17	09
		2015-16	07
		2014-15	09
		2013-14	04
2	Mechanical Engineering	2016-17	13
		2015-16	07
		2014-15	08
		2013-14	04
3	Computer Engineering	2016-17	13
		2015-16	07
		2014-15	07
		2013-14	04
4	Chemical Engineering	2016-17	12
		2015-16	10
		2014-15	06

		2013-14	04
5	Civil Engineering	2016-17	11
		2015-16	10
		2014-15	08
		2013-14	05

- List of J&k students**

Sr. No.	Academic Year	Department	No. of student
1	2016-17	Civil Engineering	01
2	2015-16	Civil Engineering	01
3	2014-15	Civil Engineering	01

- Number of EBC students**

Sr. No.	Department	Academic Year	No. Of students
1	Electronics & Telecommunication	2016-17	19
		2015-16	18
		2014-15	24
		2013-14	32
2	Mechanical Engineering	2016-17	46
		2015-16	39
		2014-15	39
		2013-14	41
3	Computer Engineering	2016-17	20
		2015-16	12
		2014-15	15
		2013-14	22
4	Chemical Engineering	2016-17	38
		2015-16	35
		2014-15	33
		2013-14	30
5	Civil Engineering	2016-17	34
		2015-16	28
		2014-15	23
		2013-14	29

- **Number of VJ/NT/DT students:**

Sr. No.	Department	Academic Year	No. Of students
1	Electronics & Telecommunication	2016-17	12
		2015-16	9
		2014-15	13
		2013-14	16
2	Mechanical Engineering	2016-17	23
		2015-16	18
		2014-15	21
		2013-14	17
3	Computer Engineering	2016-17	12
		2015-16	11
		2014-15	12
		2013-14	20
4	Chemical Engineering	2016-17	10
		2015-16	10
		2014-15	10
		2013-14	17
5	Civil Engineering	2016-17	24
		2015-16	21
		2014-15	20
		2013-14	20

- **Number of SBC students:**

Sr. No.	Department	Academic Year	No. Of students
1	Electronics & Telecommunication	2016-17	7
		2015-16	6
		2014-15	6
		2013-14	8
2	Mechanical Engineering	2016-17	8
		2015-16	7
		2014-15	8
		2013-14	9
3	Computer Engineering	2016-17	5
		2015-16	4
		2014-15	3
		2013-14	4
4	Chemical Engineering	2016-17	3

5	Civil Engineering	2015-16	3
		2014-15	4
		2013-14	5
		2016-17	11
		2015-16	7
		2014-15	7
		2013-14	7

- Number of SC/ST students:**

Sr. No.	Department	Academic Year	No. Of students
1	Electronics & Telecommunication	2016-17	19
		2015-16	20
		2014-15	25
		2013-14	27
2	Mechanical Engineering	2016-17	30
		2015-16	28
		2014-15	29
		2013-14	29
3	Computer Engineering	2016-17	12
		2015-16	11
		2014-15	14
		2013-14	18
4	Chemical Engineering	2016-17	18
		2015-16	20
		2014-15	18
		2013-14	19
5	Civil Engineering	2016-17	41
		2015-16	32
		2014-15	30
		2013-14	32

- Number of OBC students:**

Sr. No.	Department	Academic Year	No. Of students
1	Electronics & Telecommunication	2016-17	51
		2015-16	62
		2014-15	83
		2013-14	76
2	Mechanical	2016-17	86

	Engineering	2015-16	88
		2014-15	82
		2013-14	83
3	Computer Engineering	2016-17	60
		2015-16	59
		2014-15	64
		2013-14	76
4	Chemical Engineering	2016-17	61
		2015-16	57
		2014-15	55
		2013-14	74
5	Civil Engineering	2016-17	100
		2015-16	84
		2014-15	58
		2013-14	68

• **Number of Minority students:**

Sr. No.	Department	Academic Year	No. Of students
1	Electronics & Telecommunication	2016-17	09
		2015-16	07
		2014-15	14
		2013-14	15
2	Mechanical Engineering	2016-17	34
		2015-16	25
		2014-15	27
		2013-14	26
3	Computer Engineering	2016-17	10
		2015-16	05
		2014-15	06
		2013-14	07
4	Chemical Engineering	2016-17	22
		2015-16	19
		2014-15	17
		2013-14	16
5	Civil Engineering	2016-17	25
		2015-16	18
		2014-15	17
		2013-14	29

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase/decrease and actions initiated for improvement.

- The admission process is governed and managed by the centralized admission process (CAP), Gov. of Maharashtra. This process is on-line and it is transparent enough. Students can fill up both the choice of Stream and College by on-line CAP process followed by registration. Hence demand ratio is calculated from intake capacity and number of admitted students.

Sr. No.	Name of Programs	Year	Intake capacity	No. of Students Admitted
1	E&TC Engineering	2012-13	60	62
		2013-14	60	53
		2014-15	60	25
		2015-16	60	10
		2016-17	60	22
2	Mechanical Engineering	2012-13	60	63
		2013-14	60	63
		2014-15	60	57
		2015-16	60	63
		2016-17	60	56
3	Computer Engineering	2012-13	60	38
		2013-14	60	25
		2014-15	60	10
		2015-16	60	21
		2016-17	60	40
5	Civil Engineering	2012-13	60	63
		2013-14	60	63
		2014-15	60	37
		2015-16	60	51
		2016-17	60	56
6	Chemical Engineering	2012-13	60	57
		2013-14	60	45
		2014-15	60	29
		2015-16	60	26
		2016-17	60	46

The trend of admission in the institute is as follows:

- Numbers of students admitted in Mechanical Engineering, and Civil Engineering program are almost constant in last four year.

- In Electronics and Telecommunication Engineering, number of admissions fluctuated every year because of variations in the demand of particular skill set required in the industry. Increase or decrease of student's strength depends on the industry trends, market position and economic trends in national as well as international domain and such trends are observed to be same across other affiliated colleges.
- Only one programme BE (Information Technology) with 60 seats was discontinued in 2012-13, due to following reason:-
 - i) Every year more than 50% seats remained vacant from 2010 onwards.
 - ii) Drop in employment opportunity IT field in the year 2008, 2009, 2010, and 2011.
 - iii) Computer and IT engineering fields are allied fields and it was thought that only one discipline/program could be viable in the institute. As such, institute decided to focus on core branch of computer engineering.

Action for improvement:

- Advertisement in State Level News Papers.
- Counseling before and during admission process.
- Participation in various career guidance exhibitions.
- Strengthening the training and placement activities.
- The college conducts several presentations in Junior colleges in nearby area.
- Higher secondary Junior colleges students are regularly invited to the college for a tour.

2.2 Catering to student diversity**2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?**

- Institute offers reservations for differently-abled students as per the government policies in the admissions. Relaxation is provided in minimum criteria of eligibility as per DTE norms.
- Ramp ways at appropriate places are provided. Facilities in toilets are made available for differently-abled students for easy movement.
- Preferential treatment is given in the central library, canteen etc.
- Wherever rules permit extra time for written examination, facility of writer and separate seating arrangement is provided.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

- Before the commencement of Programme, students are given foundation courses, primarily of basic sciences- Physics, Chemistry and Mathematics.
- Engineering programme ,being a broad applied branch of science, involving several courses, each having different pre-requisites; Institute has policy of fulfilling these pre-requisites before the commencement of individual courses.
- Assessment of need of apriory knowledge before the commencement of courses within the programme is based on PO attainment of pre-requisite courses.
- At the start of course, the first lecture of each subject is devoted to motivate the students to develop the proactive attitude towards the subject.
- Within a month, at the start of the course objective type test is conducted for the First year engineering students to check their comprehension in mathematics, physics, chemistry, BEE, Engineering mechanics, and environmental studies.
- Each Department invites the project titles by the group of students in the final year. Students themselves form a group for the project. It provides sufficient flexibility to accommodate diversified interest of the students.
- Department also invites the minor project titles by the group of students. Students themselves form a group for the project depending upon their knowledge and skill.
- An individual teacher recognizes and prepares a list of probable students for individual guidance in the subject of expertise looking into the interest, knowledge and skill.
- Mentors assess the student's interest, knowledge and skill during interactions and provide the guidance which will be helpful for career and profession. This also covers the personal, subject and career counselling.

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

Following strategies are adopted to bridge the knowledge gap.

- Foundation course for First year Engineering
- Industrial visits

- In-plant/Industrial training
- Guest/Expert Lectures
- Internship
- Short-term Training Programmes
- Soft skill programme
- Certificate courses
- Mini-project
- Seminars/Workshops
- Refresher courses
- Aptitude Test
- Technical fest and Exhibitions
- E-learning resource centre
- Training and Placement Activities

After completion of First year, Students have a choice of opting for change of programme itself as laid down by the policy of state government.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

Institute strives to accommodate staff and students irrespective of gender, caste, creed and religion.

- Institute follows roaster system in recruiting teaching and non-teaching staff which provides equal opportunity of employment and service.
- Student enrollment to this institute is by State Government Centralized Admission Process which itself provides an equal opportunity to all students of diversified culture and socio-economical background.
- Institute provides equal opportunity for all to participate in various activities and processes which include administrative activities, co-curricular and extracurricular activities, sports, deputation to the courses, and higher studies, appointments, committees, placements etc. without any discrimination (gender, caste, and religion).
- Institute has set up Women Development Cell that functions separately for the benefit of the women employees and girl students.
- Institute celebrates Women's Day and arranges guest lectures on women empowerment.
- Institute organizes events like Welcome function, Fare well function, Get-together, Sports and Annual social function to promote harmony and integrity.
- Institute organizes special training programs on ethics - moral values and the special social activities to maintain good social environment in the institute under NSS activity.

- Institute publishes yearly magazine “GITian” and that provide platform to the students and staff to express their views on socioeconomic, educational issues and promote publication of their literature.
- Blood donation camps are organized by the institute frequently. The students come forward and donate blood for the benefit of the public.
- Pollution free and green environment.
- A tree plantation programme is carried out on the occasion of Republic day, Independence Day in our campus. An intensive care policy after plantation with proper gardening makes our campus a green and beautiful campus.

2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?

The advanced learners are identified from their participation in classroom discussion, performance in the assessment tests, performance during the oral examination, participation in classroom seminars and questioning ability, University result analysis, etc.

- The advanced learners are encouraged to participate in workshops and seminars to gain knowledge on the latest developments.
- The students are encouraged to take up industry based projects and mini projects in the advanced topics under the guidance of the faculty members.
- They are provided with the extra exposure by organizing competitions on paper presentations, projects, games, poster presentation, lectures series, software development etc.
- Advanced learners are motivated to study diverse technical topics – which are in recent discussion on the global platform. They are also encouraged to use this study, to present at different platforms. They are encouraged to write article in magazine and participate in group discussion, poster presentation as and when organized.
- Additional book and magazines are provided to these students as per their requirement. Prizes and rewards are also given to such students to encourage their participation in advanced learning.
- Finally counselling is given to student for his/her problem and he/she is motivated to continue with his/her studies

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

- Sessional exams conducted by the Institute, University result analysis and regular interaction between teacher mentor and student, help to get the information about students from the disadvantaged sections of

society, physically challenged, slow learners, economically weaker students.

- Teacher mentor interacts and guide regularly with the students assigned to them and find out the academic performance of student and probable reasons for the same. He/she co-relates the result with the categories of the student viz. section of society, physically challenged, slow learners and economically weaker students.
- Finally counseling is given to student for his/her problem and he/she is invited to continue with his/her studies.

Institute uses the data as follows.

Physically Challenged:

- The institute provides the barrier free environment for physically challenged students.

Slow learner

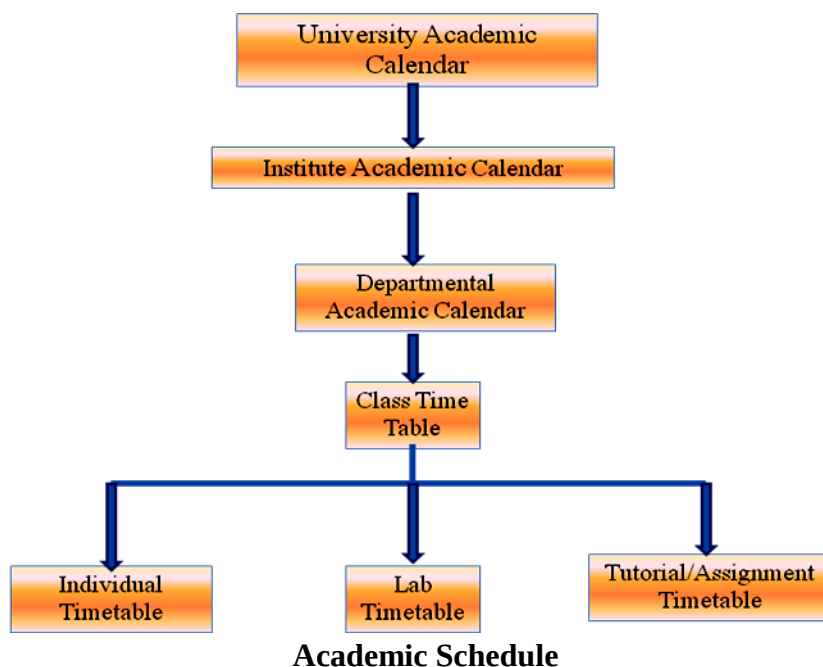
- Institute arranges remedial lecturers for slow learners for subjects like BEE, Mathematics and EM before and after college hours.
- Teacher repeatedly teaches the content as per requirement of slow learners.
- Teacher informs the parents regarding improvement in the performance of their ward on regular basis.
- Teacher uploads notes on E-learning resource centre to understand the content easily.
- Teachers sincerely take efforts to give personal attention to these students.
- Special assignments are given to such students.

Economically Weaker and Disadvantaged section:-

- Institute provides earn and learn scheme for economically weaker and disadvantaged section students.
- The weaker and disadvantaged student are largely covered under institute's best practice of "Guidance to academically poor and weak students"

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)



- Institute's Academic calendar is in line with Mumbai university academic calendar. The academic calendar prepared and published on the institute website at the beginning of the semester.
- Academic year starts as per the schedule provided by the Mumbai University.
- The head of department conducts a meeting of faculty before the semester begins and discusses the syllabus of the program and their subject preferences are asked. Work distribution is made accordingly.
- Also the academic calendar of the department is prepared which includes, academic events and list of holidays which is in accordance with the University calendar.
- The students are informed about time table and academic calendar well in advance.
- The faculty prepares course file which includes detailed work plan, notes and other study material, experimental write ups, previous year university question papers, assignments, e- learning material etc. The file is evaluated by academic audit committee regularly.
- Institute conducts two Sessional exams in a semester. The first Sessional exam is conducted based on 40% of the syllabus and second Sessional conducted based on the remaining syllabus. Performance of

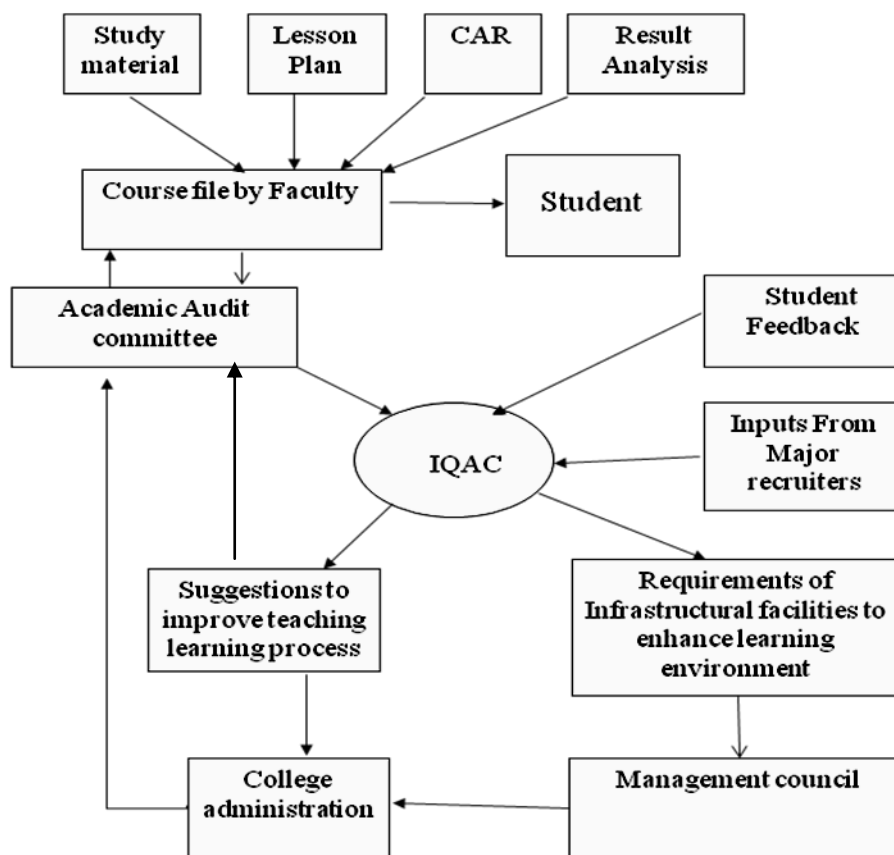
the student is analyzed and discussed with students and parents. Teacher as a mentor, counsels the students about their academic performance.

- The institute organizes the co-curricular events such as technical event “Shodh”, guest lectures and annual gathering in which students get an opportunity to exhibit their skills, general knowledge and attitude.
- The institute has a mechanism for collection of feedback from alumni, parents and industry. Every year “Parent meet” is arranged to discuss on issues like teaching learning process, infrastructural facilities, performance of their wards and placement activity. Parents are allowed to give feedback orally and in writing.
- The mock practical and orals are also conducted and performance of student is evaluated and informed to all concerned.
- At the end of every semester, evaluation of student performance is assessed for internal marks, class test, and practical work. Understanding of individual student is examined by continuous assessment sheet and final internal marks are given to the individual student and informed to concerned. This evaluation reports are recorded in the Course file.
- At the end of the term/semester, University examination is conducted and performance of student is evaluated.

Sample copies of academic calendar,

2.3.2 How does IQAC contribute to improve the teaching student – learning process?

IQAC monitors on development and application of quality benchmarks/parameters for the various academic and administrative activities in the college. It facilitates the creation of a learner-centric environment conducive for quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process. It enables dissemination of information on the various quality parameters of higher education organization of inter and intra institutional workshops, seminars on the quality related themes and promotion of quality circles. IQAC analyses documentation of the various programs or activities of the college.



Contribution of IQAC

The contribution of IQAC in improving teaching –learning process is:

- It brings about quality change in the academic policies of the institute.
- It recommends the governing council for sanction of Facilities required for enhancing the academic level of the institute.
- It reviews the academic progress of the institute and suggests measures to improve.
- It monitors R & D and consultancy work.
- It monitors timely, efficient and progressive performance of academic activities according to the academic calendar.
- It ensures assessment of performance indicator in order to ensure the attainment of various course outcomes and programme outcomes.
- Assessment of the POs is carried out twice in an academic year generally at the end of semester.
- Student feedback is analyzed and proper suggestions, advice for improvements are given.
- It coordinates and invites guest lecturers in thrust areas to conduct seminar, interact with academicians and people from industry to get

first-hand information on the scientific trend and market need to boost the teaching quality

- Prizes are given to encourage and motivate students for better performance in academics.

2.3.3 How learning is made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

▪ Lecture method and Interactive learning

The faculty use chalk and board and audio visual aids like power point presentations, OHP, video lectures, models etc. while teaching. Students are also encouraged to interact during the lecture hour by getting the doubts clarified on the spot. Further, Debates, Group Discussions and public speeches are arranged to enhance their interactive, collaborative and independent learning skills.

▪ Project-based learning

During the period of study in the 5th semester and Final year, few real time projects are given to the students and they are guided by faculty. As a part of curriculum, final year students in a group of 3 or 4 carry out one full year project to provide the solution to a given engineering problems by applying the knowledge gained in three years of graduation studies. A preliminary survey of literature is carried out to define the problem. The students are expected to prepare a synopsis indicating the feasibility of the project with available resources. The progress of the project is monitored throughout the year by Guide, Project coordinator, Experts and HOD. The assessment is based on the parameters as defined in the rubrics. The final evaluation is done by a committee of three members including Guide, HOD and external expert from industry or other institute.

▪ Computer-assisted learning

- The College has over 422 computers, 39 printers, 12 scanners, 376 OS licence copies, 50 application software and 1 system software “Fluent Ansys Version 7” costing about Rs.30 lakh.
- Our college is centre of NPTEL local Chapter. A separate server is provided for offline access of NPTEL videos of sized nearly 8TB to students and faculties. About 47 online NPTEL Certificate courses are provided by the various institutes.
- The students are also encouraged to develop various softwares like online student feedback system, store management software, hostel and mess management etc. to tackle the local problems.
- The Institute has following licensed software:

Sr. No.	Software	License Detail
1	Matlab 2010a	25 Users
2	Matlab 2012a	25 Users
3	Multisim	10 Users
4	Proteus	25 Users
5	Tina	10 Users
6	SPJ	10 Users
7	Microwind	05 Users
8	Windows XP (MS Win-Pro-7 Star. SP1)	118 user
9	IBM Rational Rose	15 user
10	Visual Studio Professional 2010	40 user
11	SQL Server Cal-2008-R2	40 user
12	SQL SERVER std 2008R2 sngl olp nl acdmc	1, Multiuser
13	Microsoft office STD	10 user
14	Red Hat Linux 4.0	20 user
15	AUTOCAD 2008	21 user
16	BORLAND TURBO C++	20 user
17	ORACAL 11 G	20 user
18	Catia V5	20 Users
19	Ansys	25 users
20	Autodesk inventor 2009	20 users
21	AutoCAD 2008	20 users
22	STAAD-PRO	5 user
23	Linguaphone	Multiuser
24	Aspen plus	20 users
25	Ansys Fluent CFD	5 user

▪ **Digital/Smart classrooms**

The institute has five smart classrooms; five digital classrooms and rest have facility for other teaching aids like overhead projector or flexible projector. Institute has two seminar halls (with projector audio, video system, white board etc). Out of which, one seminar hall is equipped with video conferencing facility and smart board. It has one additional full-fledged multi media room (Projector, audio video system.).

▪ Concept of Virtual Classroom:

Virtual class room is a concept where teaching learning process takes place wherein the students and faculty could be geographically separated and teaching learning takes place with the aid of –

- a) Audio visual media through computers
- b) Broadband connection
- c) Software tools where by computers are interconnected with multiple control possibilities.

In virtual class room, three way communications can be made possible. That is, students can communicate with each other, student can communicate with geographically separated resource person and resource person can communicate with individual student. In short, three-way communication is possible, like in real time class room.

The three-way communication is possible due to A-View software.

A-View software is application software which provides way to communicate with students and is provided by IIT, Bombay. Software is having various options like chat, whiteboard, video dashboard. With this aid teacher from one location delivers the lecture to number of students at different geographical locations. Students can ask question at any time during the session.

Resource persons from various geographical locations can be made available for teaching, discussing and trouble shooting. Resource person is visible to students. Participants, including resource person, can share any information. Both visual and audio media take this concept closure to traditional classroom teaching.

The outcomes of the virtual classroom and the workshop conducted in such manner can be as follows:

Outcome:

- a) A topic covered in the syllabus can be taught by internationally renowned person(s).
- b) If the discussion requires further clarification, it can cover topics beyond syllabus.
- c) The interaction of the instructor is one to one as well as one too many. Hence interaction ratio is very high.
- d) Use of modern communication tool can be taught and demonstrated.
- e) Traditional communication techniques such as getting information/instruction (uni-directional flow of information), dialogue between the instructors to clarify doubts (two directional flow of information), virtual conversation- discussion (flow of information one to many, and many to many) can be demonstrated.
- f) The barriers of time and space can be overcome.

g) Documentation could be made available or can be shared by many for future reference.

h) Open avenues to conduct many such workshops, courses for the present institution, It gives first hand information to the students to participate in virtual class room. Resource person, who otherwise would not be accessible- available to us because of geographical limitation, could be associated with us for future benefit.

i) Courses, once conducted can be documented (filmed) for future reference when the resource persons are offline or not available in future.

▪ **Video Conferencing Facility:**

We also have video conferencing facility in our college. Faculty from renowned Institutes deliver lectures from GCL, Bandra. Faculty from IIT and other locations use this facility to teach our students at Lavel.

▪ **AAKASH TABLET:**

We have 200 Aakash tablet for use of student as well as faculty. These tablets are made available to us by IIT Bombay.

▪ **Experimental learning:**

Students do 4 to 5 laboratory courses per semester from 1st to 8th semesters. Institute insures that student perform more number of experiments in a given laboratory course than specified by the affiliated university. The laboratories have excellent facilities, both hardware and software based. For the experiments detailed instruction manuals are provided. The observations are checked and verified by faculty and record books are maintained systematically. One faculty member and one instructor are assigned for each practical class. Laboratory classes are performed with latest hardware and software.

▪ **Others:**

Technical Societies and Student chapters of National/International Associations are active and students are encouraged to present technical papers at National/ International Conferences. Peer interaction is done through inter collegiate student technical symposia which are arranged and conducted by students and funded by the College. During the period of stay, many Industrial visits are arranged to the nearby industries every year by each department. Through these the students visit many industries across the country.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

- Institute organizes the events like paper presentation, art exhibitions, Software development competitions, Model development competition, Poster competition, debate competition, Art Gallery etc to develop creativity and critical thinking among the students
- Students who are interested in Research and Development work are continuously motivated and encouraged to present their Project/Research work in different National/ International Seminars /Conferences/ Workshops.
- Students are encouraged to get involved in industry sponsored projects as a part of their curriculum in final year.
- Students are motivated to write scientific and technical articles for college magazine.
- Books, journals, periodicals in central library and its use play an important role in teaching learning process. Even after completion of the course, students are being advised to appear for competitive exams like GATE and not to discontinue their study and research activities till the end.

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? E.g. Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

Apart from traditional classroom teaching practices, the faculties are encouraged to use different Audio-visual, Models and other teaching aids. The campus has Wi-Fi facilities. The college has common computer facility with internet connection.

- **National Programme on Technology Enhanced Learning (NPTEL)**
 - As being a center of NPTEL local Chapter, A separate server is provided for offline access of NPTEL videos of sized nearly 8TB to students and faculties. Institute runs online NPTEL courses. NPTEL consist of collection of Video Lectures for different engineering streams and subjects.
- **National Mission on Education through Information and Communication Technology (NME-ICT):**
 - Institute has Remote Center (RC-1059) of IIT-Bombay and IIT-Kharagpur. Institute conducts STTPs for the development of faculty in various latest trends organized by NMEICT- IITs.

- Institute has conducted 15 workshops under NMEICT program sponsored by MHRD.
- **Web based course management (FTP server)**
 - The college has its own E-learning facility which is equipped with all university question papers, current three years sessional exam question papers, Faculty notes, assignments, tutorials, power point presentations, teaching plans, videos, time-tables, etc.
 - The college has formed an E-learning data management committee. The E-learning data is regularly updated by concerned subject experts and handed over to committee to update it on intranet website.
- **Open educational resources**
 - Faculty members use digital library, Scilab and other Open Source platforms to make the subject easy to understand.
 - Guest lecturers of various resource persons are organized through video conferencing.
 - Following are the Online Full-Text Electronic Resources: Format

Sr. No.	Online Digital journal	No. of online digital Journal
1	Elsevier Science Direct	275
2	IEEE	169
3	Springer Mechanical	49
4	Springer Electronic, Electronics, Computer	149
5	McGraw Hill Access Engineering	623 Books
6	ASCE	35

- **Mobile education:**
 - College is conducting objective test for first year engineering students. The students who are able to clear the test are allotted with “Aakash Tablet” for the period of one semester which is equipped with all e-learning data.
 - Institute is conducting “Android workshop” for students.
- Information about multi media and virtual class room is already given at 2.3.3.

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

- Institute organizes expert lectures, seminars, conferences, workshops, to expose student and faculty to advance level of knowledge. Institute organizes National and International Conferences for different Programmes. Institute organizes the paper presentation, project competitions, expert lectures. Institute has the students' chapters and Institutional membership of professional bodies like ISTE that organize the events to provide platform to the students for developing their technical skills.
- Blended learning is promoted in our institute, especially for advance learning in simulation, computer based training programs for development of real-time applications; using virtual classroom. Institute also promotes peer to peer learning in specialized study circles. Institute also has MoUs with industries and research institutes and through expert lectures, seminars and workshops jointly hosted with MoU partners, advanced topics calling for intensive training are covered. Specific skill-sets required for certain domains which are not covered in university specified curriculum and which fall under emerging technologies are covered through inverted or flipped classroom. College intra net facility is extensively used for uploading of online self study material.
- Institute has IIT-Bombay and IIT-Kharagpur Remote learning Center.

2.3.7 Detail (process and the number of students\benefited) on the academic, personal and psycho-social support and guidance services (professional counseling/mentoring/academic advises) provided to students?

- The institute has training and placement department. It consists of training and placement officer and one faculty coordinator from each department. The Training and Placement Department offers professional counseling of the students about the current industry scenario and skills set expected from the corporate world.
- Institute has started practice of training the students for facing the professional interview by creating question bank comprising of most likely questions pertaining to domain expertise as well as areas covering personality and behavioral aspects. All final year students (approximately 300) are trained in this area by subject teachers.
- Mentoring – Approximately 15-30 students are allotted to an individual faculty member. Mentoring meetings (Individual and group) are conducted by faculty members per month. Issues related to

academic performance, attendance, physical and mental status and any other personal problems are discussed and corrective measures are suggested. The college has full time professional counselor. Reports of the meeting are reviewed by central committee comprising of Principal, Counselor and central mentor supervisor. All students are covered under mentor mentee system.

- At the beginning of engineering curriculum i.e. in the first year, a psychological test consisting of 150 objective type questions is conducted to know the students' capacity, mental ability, his/her interest, strength, and weaknesses by counselor. Counselor discusses these matters with HOD, Class teachers and Mentors which help them to prepare strategy to tackle or interact with all kind of situations of students.
- HODs, TPO and Principal also counsel the students and advise them from time to time about career guidance, competitive examinations, etc.

2.3.7 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

a) Innovative teaching learning approach/methods

Faculty members of the institute are dedicated out of commitment to deliver their lectures in an effective manner to enrich the knowledge of the student's community. They continuously experiment to evolve innovative teaching methodologies. Some of the innovative teaching methodologies adopted are:

- Peer to Peer learning is now promoted in the institute at all levels.
- Faculty uses Laptop, overhead projectors, modems, digital library, and online journals to download lectures, study materials and data from internet.
- Faculty always tries to find curriculum gap from university syllabus and bridge it in curriculum.
- Special attention is given to learning beyond syllabus through modern techniques.
- The teachers try to make lectures more students centric by using ICT based teaching, cooperative learning.
- Faculty upload tutorials, notes, study material, Power point Presentations to the students on e-learning resource centre.
- Faculty uses Power point presentations/animations/videos related to the complex concepts for better understanding.

- The students are assigned different tasks such as Group Assignment, Problem Solving and Mini Project. (in subject e.g. Business communication and Ethics) This activity helps to improve self learning ability and teamwork.
- Good collections of recently published books in library
- Well structured teaching plans are prepared for all theory and practical courses on a period to period basis, scrutinized by HODs and made available in the E-learning for student's access.

b) Efforts made by the institution

Institute always motivates the faculties to adopt and use new techniques and tools in teaching for betterment of students learning. Some of the facilities provided are,

- Institute motivates the faculty to attend online and offline courses conducted by IIT Bombay, IIT, Kharagpur, NPTEL online certification courses.
- NPTEL video lectures are available on FTP server.
- IEEE journals and Springer journals are available online and through intranet.
- Computers are used for teaching purposes and internet facility is available to students and faculty.
- Digital class rooms, OHPs, LCDs, videos etc. are made available for teaching purposes.
- Students are provided with platforms like seminars, project exhibitions etc. for their interpersonal skill development.
- Teachers are deputed with financial support for attending Workshops/ Conferences, FDPs.
- Institute has licensed software packages.
- Every year an Awards for best teacher is given. The award consist of certificate and cash prize of Rs. 5000/-
- Central feedback system and guidance/appreciation for faculties.
- Training programs arranged to enhance teaching-learning and leadership in faculty.

c) Impact of innovative practices on student learning

- With innovative practices, classroom teaching learning process becomes enjoyable task. It enables students to develop and realize their personal potential.
- Students not only enjoy learning but try to participate in this process wholeheartedly which ultimately empower them to improve their performance and achievement.

- Using modern tools like power-point presentations and interactive teaching creates awareness about presentation skills. This has reflected into increased number of participation in competitions/presentations.

2.3.9 How are library resources used to augment the teaching learning process?

Library is the hub of information and it is the treasure of knowledge. It is the nucleus of academic pursuits. The library of the institute contains books, journals and other learning materials and technology-aided learning mechanisms which enable students to acquire information, knowledge and skills required for their study programmes. The library receives recommendation from faculties, HODs and Principal for the selection of books, journals, magazines and proceeds on to improve library facilities on priority basis.

Library facility:

- More than 18,400 book volumes with a wide range of reference titles.
- Around 36 print journals are subscribed to update the current knowledge of the stakeholders in their respective field.
- More than 600 e-journals from reputed publishers have been subscribed.
- Library Purchase the Academic & non Academic Books which are required for Students & staffs.
- Library provides Open Access so any one can choose the books he/she requires.
- Library automated facility saves the time with fast issue return facility.
- The Library's timings are very convenient so that everyone may visit the library before and after the Teaching-Learning Process. The library operates beyond college hours.
- The e-journals can be accessed in Institute through LAN without any Authentication for Students and Staff.
- Library staffs display the New Arrival of Books regularly.
- The Library Open Public Access Catalog OPAC is Accessible in LAN.
- NPTEL Video is Accessible in College LAN.
- Every year books, magazines, journals are added as per the needs of staff & students.
- Wi-Fi enabled campus wherein the students can access information in the departments.
- In addition to the central Library, each department has its own departmental library to facilitate easy access to the faculty, students and research scholars.

- Library resources are augmented to enhance teaching-learning process through,

Reprographic services:

- Printing, scanning and photocopy facility is available in the Library and administrative building.

Stack section:

- All the books are bar coded and book transaction is carried with computerized system.

Newspaper section:

- Besides syllabus, newspapers provide information about current affairs all over the world. This makes readers to think about social, political, educational, economic and environmental issues.

Magazine section:

- Magazines from different areas help to update information in different fields.

Digital library section:

- Library is enabled with LAN, and broadband internet facilities.
- Users can access journal papers through digital library section for their research.

Reading room section:

- Reading rooms are provided with proper seating arrangement, fans, tubes, ventilation and water facilities.
- Reading rooms are open beyond college hours.
- Seating Capacity of reading room is 214

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If ‘yes’, elaborate on the challenges encountered and the institutional approaches to overcome these.

Following are the challenges:

- Time slots are given for all subjects as per the structure prescribed by the Mumbai University. But certain subjects need more time. e.g.

Engineering Mechanics, Applied Mathematics, Basic Electrical and Electronics, Engineering Drawing etc. require more time.

- Admission process and date of declaration of result, also affect academic planning.

Efforts to overcome the challenges

- Institute observes some holidays as working days and make up the academics.
- Additional lectures are adjusted in time table for above mentioned subjects.
- Teachers arrange extra lectures as per the requirement and convenience.
- If required, short term courses are engaged during preparatory leave for certain subjects involving design, mathematics and core branch specific areas.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

- Feedback from students, alumni, employers and parents is taken periodically.
- After analyzing student's feedback, instructions are given to individual faculty member for improvement.
- MIS report is collected from academic and service departments to know the monthly progress of curricular, co-curricular and extra-curricular activities.
- Every month MIS report is placed before the Local Managing Committee for evaluation and corrective measures.
- Course file of individual faculty is evaluated by academic audit committee and the report is submitted to IQAC.
- Institute monitors University ranks and results and evaluates the teaching learning process with available resources.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
Ph.D.	0	0	2	0	0	0	02
PG	0	0	1	0	40	6	47
Temporary Teachers							
Ph.D.	0	0	0	0	0	0	0
PG	0	0	2	0	15	11	28

Note: Temporary teachers are those teachers who are qualified and competent, but whose services have not been made permanent due to unavailability of post in roster as per the policy of the Government.

▪ Recruitment strategies

Recruitment of teaching and technical staff is as per norms of AICTE and University of Mumbai. Requirement of staff is calculated on the basis of workload in both semesters (in the academic year) and accordingly, roster is finalized in consultation with University of Mumbai. In order to ensure quality in teaching, the institute follows the standard procedure of University in recruiting the staff. All positions are filled up by open competition. Applications are invited after the approval of draft advertisement from University, from eligible candidates either through news paper, advertisement or publication of news of vacant seats on institute website. Screening of applications is done by a scrutiny committee. Interviews are conducted by University selection committee. Committee recommends the candidates based on the performance shown in the interview. Any other instruction given or rule prescribed, from time to time, by AICTE & affiliated to Mumbai University, Mumbai regarding selection procedure will automatically form part of the rules/procedure of selection. However, for urgent need if well qualified persons are identified, direct recruitment is done by the Principal in consultation with local selection committee on temporary/ad-hoc basis. All temporary and ad-hoc appointments shall be based on the recommendations of the institute/local staff selection committee duly constituted. All recruitments are done considering qualification and experience as per AICTE norms.

- **Retention strategies**

- Institute gives promotion, based on the qualification, performance, and experience.
- A performance appraisal of the employees is done by the immediate head of the department & head of the institute. The PBAS is in place and promotions and increments are decided as per the criteria laid down in PBAS.
- Timely promotion is considered strictly as per AICTE norms.
- Welfare scheme such as medi-claim for entire family, personal accident policy is provided.
- Teachers are allotted subjects as per their area of specialization and preference.
- Institute deputed/sponsors faculty for higher studies, conferences, workshops, STTPs.
- Service flexibility is provided for higher education.
- Institute provides on campus accommodation to faculty so as to cater the need of faculty and families.
- School bus facility is provided to the children of staffs residing in campus.
- Medical facility, stores and recreational facilities are made available.
- Children park “Little Angel” has been developed in campus for the entertainment of families of staffs.

2.4.2 How does the institution cope with the growing demand/scarcity of qualified senior faculty to teach new programmes/modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

- Institute identifies qualified senior faculty and/or experts in the emerging areas and involves them to fulfill the scarcity through adjunct appointment, and/ or expert lecture/sessions, invited lectures.
- Institute organizes expert lectures by inviting the senior and experienced persons from research organizations, industries and academic institutes of importance.
- Gharda Chemical limited, being a parent industry institute has close relationship to exchange ideas through dialogues and to construct channel of communication for information flow regarding emerging technologies.

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

a) Nomination to staff development programmes

Academic Staff Development Programmes	Number of faculty Nominated			
	2013-2014	2014-2015	2015-2016	2016-2017
Refresher courses	--	--	--	NA
HRD Programmes	--	--	--	NA
Orientation Programmes	6	9	12	9
Staff training conducted by the university	1	2	1	NA
Staff training conducted by other institutions	2	11	9	2
Summer/winter schools, workshops, etc.	44	21	28	NA

b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning.

- Teaching/learning methods/approaches
- Handling new curriculum
- Content/knowledge management
- Selection, development and use of enrichment materials
- Assessment
- Cross cutting issues
- Audio Visual Aids/multimedia
- Teaching learning material development, selection and use

Details of the workshops/training programmes conducted

SN	Name of the Activity	Department	Date	Sponsoring Agency/self sponsored
2015-16				
1.	Workshop on PLC & SCADA	E&TC	21/08/15 - 24/08/15	Self-sponsored
2.	Workshop on Linux & Python	E&TC	09/09/15 – 10/09/	Self-sponsored
3.	CCNA Workshop	E&TC	30/08/15 – 31/08/15 (2 days/week)	Self-sponsored
4.	Embedded System workshop	E&TC	25, 26/09/2015	Self-sponsored
5.	MATABOTRICS	E&TC	2, 3/10/2015	Self-sponsored
6.	ISTE one week STTP on Advanced Computer Skills	All Departments	3/11/2015 to 7/11/2015	Self sponsored
7.	Workshop on Effective Verbal Communication	All Departments	17 and 18/01/ 2015.	Self sponsored
8.	Total Station Workshop-Gallop Design &Construction, Pune.	Civil Dept.	12 and 13/03/2016	Self Sponsored
2014-15				
	Innovative Buds	E&TC	JAN 2015	Self-sponsored
	Spoken English & Personality Development	ASH	2/2/2015 to 16/2/2015	Self-sponsored
2013-14				
	iSensobotz	E&TC	March 2013	Self-sponsored
2012-13				
	Seminar on How the faculty can provide more effective teaching to the students	All departments	9/3/2013	Self-sponsored

	CFD training	Chemical, Civil, Mechanical	15 and 16/02/2013	Self- sponsored

Along with above mentioned programmes following workshop has been organized at IIT remote center in collaboration with IIT, Bombay and IIT, Kharagpur:

Sr . No.	Date	IIT Remote Centre Workshop Topic	Co- ordinator	Departm ent	No. of Partici pants
1	25/06/12 to 4/07/12	Introduction to Research Methodologies	Prof. Mahindra Shetty	All	14
2	10/11/12 to 11/11/12	2 days ISTE Workshop on Aakash for Education	Prof. M.A. Khandke	Compute r	48
3	11/12/12 to 21/12/12	2-Week ISTE Workshop On Engineering Thermodynamics	Prof. Paresh Wadekar	Mech Engg	25
4	21/05/13 to 31/05/13	Two-Week ISTE Workshop On Database Management Systems	Prof. M.A. Khandke	Compute r	21
5	26/12/13 to 6/12/13	TWO-WEEK ISTE WORKSHOP on Engineering Mechanics	Prof. V. M. Swami	Mechanic al	11
6	4/06/13 to 14/06/13	Two-Week Workshop On Analog Electronics	Prof. M. S. Gadre	E and TC	17
7	30/06/14 to 5/07/14	Two Week ISTE Main Workshop on Computer Networking	Prof. Samir Tathare	E and TC	25
8	10/07/14 to 20/07/14	Two Week ISTE Main Workshop on Cyber Security	Prof. D. N. Londhe	Compute r	12
9	2 /01/14 to	Two Week ISTE	Prof.	E and TC	42

	12/01/14	Main Workshop On Signals & Systems	Iltpawar T. L.		
10	21/04/14 26/04/14	ISTE Workshop on Computer Programming	Prof. Rajkumar Pawar	Computer / E and TC	26
11	20/05/14 to 30/05/14	Two Week Main Workshop on Fluid Mechanics	Prof. Deepak Dubbawar	Mech Engg	15
12	15/09/14 19/09/14	Two Week Main Workshop on Control Systems	Prof. S. N. Pandharkame	E and TC	20
13	25/05/15 30/05/15	Two Week ISTE STTP on Introduction to Design of Algorithms	Prof. A. Chinchawade	Computer	17
14	5/01/15 to 31/01/15	TWO - WEEK ISTE Short Term Training Programme (STTP) on Pedagogy for Effective use of ICT in Engineering Education	Prof. Chatan Shinde	All	25
15	08/12/15 to 18/12/15	Engineering Physics Workshop	Prof. M. N. Lahane	All	9
16	04/01/16 to 09/01/16	Introduction to Structural Engg	Prof. Paresh Mirgal	Civil Engg	10
17	29/01/17 to 4/02/17	CMOS VLSI and MixedSignal Frequency	Prof. Mohite M.A.	E & Tc	8

c) **Percentage of faculty**

- **invited as resource persons in Workshops/Seminars/Conferences organized by external professional agencies**
- **participated in external Workshops/Seminars/Conferences recognized by national/international professional bodies**
- **presented papers in Workshops/Seminars/Conferences conducted or recognized by professional agencies**

Dept.	Year	Invited as Resource Person in Workshops / seminar / conferences				Participated in Workshops/ seminar / conferences				Presented paper in Workshops / seminar / conferences			
		2015-16	2014-15	2013-14	2012-13	2015-16	2014-15	2013-14	2012-13	2015-16	2014-15	2013-14	2012-13
Mech		-	10	-	-	-	-	5	-	-	31	-	-
Chem		25	-	-	8.33	100	-	75	50	50	-	-	-
I.T.		--	--	--	--	4	9	8	8	0	3	8	7
Extc		23	6.25	-	-	46	38	100	30	39	75	20	30
Comp		40	-	-	40	90	63	50	53	-	45	50	-
Civil		-	-	-	-	100	6.25	9.09	28.57	80	31.25	100	28.57
Ash		-	-	-	-	100	55	100	100	63	54	17	-

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)

To upgrade the knowledge of teachers, the institute has following policies.

- Institute encourages the faculty for post graduation.
- Institute encourages faculty for Ph.D. work.
- Institute informs every faculty about research funding agencies in their related research topic.
- Institute also informs and motivates every faculty about upcoming Conferences, STTPs, and IIT remote center workshops.

- Flexibility is provided in time table and study leave for higher education and research.
- Application for research grants for major and minor projects are encouraged, recommended and forwarded.
- The college has provision in annual budget for research funding to each department.
- The institute provides in-house research facility to faculty pursuing Ph.D.
- Institute sponsors faculty for seminar, conferences, and industrial training.
- Institute organizes National Conferences, STTPs, and IIT remote center workshops for the faculty.

2.4.5 Give the number of faculty who received awards/recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

Institute has policy to select the best teacher based on the student feedback, give him/her award, and cash prize every year.

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

Yes, Institute evaluates teachers by taking inputs from students.

- Students Feedback is taken TWICE in each semester. Analysis of received feedback is done and it is used for improving the quality of Teaching-Learning-Process. Counseling of the teachers is done by HODs and Principal to make corrective actions.
- Continuous Evaluation of contents of course files by academic audit committee.
- Lectures are monitored by senior Professors and the HoD of the Department. They give constructive comments to improve the quality of teaching and the teaching- learning process.
- Counselling by the respective HOD is given to the faculty member who has secured low scores and negative comments, if any, in the feedback. This motivates him to improve their skills and abilities.
- Less experienced Faculties (Less than 2 years in GIT) have to attend pre and post lecture counseling given by senior faculty members and maintain the record of same.
- In Institute, for faculty motivation and improvement in teaching and learning processes, faculties are appreciated by Best Teacher Award.

The faculty who is getting maximum votes from students is considered for the said award.

2.5 Evaluation Process & Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

At institute level scope of evaluation is limited to the term work. Practical, Oral Examinations and Theory Examinations are conducted and evaluated by the university.

- Our faculty contributes as a Paper Setter, Internal/External Examiner, Junior/Senior Supervisor and Examiner, Moderator and Joint Chief Conductor for Theory Examination.
- Students are informed about the eligibility conditions required to appear in the University Examination of respective semester.
- The periodic instructions issued by the parent university are promptly communicated to the students.
- An institute evaluation process is published in the institute calendar and the tentative dates are given in it.
- The regulations, curricula and syllabi of all the programmes offered by the institute are available on the institute and university website.
- The faculty members read the instructions even in the classrooms and copy of the same is also displayed on the student's notice-board which includes schedule of internal Evaluation (Oral and practical Exams) and University examination.
- Staff meetings are conducted periodically to review the evaluation process.

2.5.2. What are the major evaluation reforms of the university that the Institution has adopted and what are the reforms initiated by the institution on its own?

- The University is moving towards the choice based credit system and the new system has evaluations based on project based learning. The evaluation of the students performance is assessed more and more on his/her performance in tutorial, mini projects and assignments based on small learning objectives defined by individual teachers or as defined in the course outcomes..
- University of Mumbai evaluates the performance of first and final year students through online CAP. Institute has an online CAP Center which facilitates the participation of institute faculty as well as outside faculty.

- Institute conducts the examination and evaluation of the same on behalf of university of Mumbai for the second and third year engineering students.
- For final year students, Project work is evaluated in the form of Seminar and Oral examination conducted internally as well as externally by University.
- The university has started the online system for submission of examination application form, submission of internal marks and application for convocation.
- For internal evaluation, Institution conducts two sessional examinations per course per semester and open book tests and objective type tests for students.
- The institute also runs online CAP center and offline CAP center on the behalf of University of Mumbai.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

- Institute promotes evaluation based on mini-projects tutorials and assignments. Mini-projects are also funded by the institute on need basis.
- Institute organizes University examination as per schedule declared by the University. For smooth conduct of university theory examination, institute has separate Exam control system which is equipped with necessary facilities. Institute has strong IT infrastructure and services to conduct and control examination activities.
- Further, University appoints external Joint Chief Conductor and flying squads to monitor the exam system.
- Students can apply for photocopy of answer sheet and revaluation of answer books of university end semester examination as per the procedures of the University.

2.5.4 Provide details on the formative and summative assessment approaches adapted to measure student achievement. Cite a few examples which have positively impacted the system.

Formative assessment approach:

The goal of formative assessment is to monitor students' learning. It can be used by teacher to improve their teaching and by students to improve their learning. Formative Assessment of the students is done by teacher on the following parameters:

- 1) Question and answer sessions.
- 2) Class interactions.
- 3) Quiz, debates.

- 4) Group discussions/Viva-voce.
- 5) Seminars/ presentations.
- 6) Providing support for the activities like sports, cultural, competitions.
- 7) Encouragements to participate in inter college competitions.

Summative assessment approach:

The goal of summative assessment is to evaluate students' learning at the end of an instructional unit by comparing it against some standard. Summative assessments are often high stakes, which means that they have a high point value. This process helps the students to gain confidence and achieve good results. The university conducts a summative evaluation at the end of each session through the following:

- Institute conducts two sessional examinations and/or objective tests as per the requirements.
- For all theory and practical courses other than project work, the continuous internal assessment carrying 25/50 marks is subdivided into attendance, laboratory experiment/performance, sessional exams, assignments/tutorials, orals, etc.
- Industrial visits for the students are arranged and students submit the visit report which is also evaluated under their term work.
- Project work is also evaluated through presentations.

Sample Examples:

- 1) Students become more serious to attend regular classes as the evaluation system contains internal marks for good attendance.
- 2) Students are appreciated by the institute for their academic excellence through Scholarships which encourages the other students to achieve excellence in academics.

2.5.5. Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightage assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.)

There is complete transparency in the internal assessment. All the students are familiar about the transparency in the internal assessment. The criterion adopted is as directed by the university.

- To monitor the student progress, Institute has the continuous internal evaluation system which consist of sessional exams, (twice in term) objective type tests, open book tests etc.
- In continuous assessment process, opportunities to improve soft skills are given to the students participating in activities based on the course

like group discussion, seminar, poster presentation etc.

- Institute communicates progress of students to their parents.
- Institute arranges parents meet once in a semester to have proper communication between parents and teachers.
- Affiliated university also conducts the theory/practical/oral examination at the end of semester.
- The Institute analyses programme-wise performance of students every year.
- Institute has communication skills language laboratory which consists Linguaphone International Spoken English Course. Different activities (GD, Public Speeches, and Presentations) carried out in language lab help the students to improve their verbal and non verbal communication and promote soft skills among them.

2.5.6 What are the graduates attributes specified by the college/affiliating university? How does the college ensure the attainment of these by the students?

Graduate attributes are specified by Washington Accord and have been adopted as graduate attributes of the college.

Engineering Knowledge: Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

Problem Analysis: Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.

Conduct investigations of complex problems: Using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.

Modern Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering and Information Technology tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The Engineer and Society: Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

Environment and Sustainability: Understand the impact of professional engineering solutions in societal and environmental

contexts and demonstrate knowledge of and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams and in multi disciplinary settings.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

Life-long Learning: Recognize the need for and have the preparation and ability to engage in independent and life- long learning in the broadest context of technological change.

Project Management and Finance: Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team to manage projects and in multidisciplinary environments.

Attainment of Graduate Attributes

- Programme outcomes are designed in line with Graduate attributes.
- Each program of the institute has defined course outcomes and program outcomes.
- The program outcomes are measured through course outcomes.
- Institute also conducts a course exit survey for each course at the end of semester.
- Institute also conducts the graduate and alumni survey to establish attainment of program educational objectives.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

- Redressal of grievances of students regarding the evaluation is strictly followed as per the university of Mumbai guidelines.
- For University examination, students can apply for photocopy of answer sheet. Students show the photocopy to concerned course teacher, discuss the grievances and seek advice. As per the advice, he/she can apply for revaluation of answer books to the controller of examination of university as per the procedures of the University.
- For internal tutorials, assignments and laboratory work evaluation is done regularly and evaluated work is handed over to student for final submission. So students are well aware about the evaluation.
- For internal sessional examination the institute follows the guidelines given by university for the redressal of grievances.

2.6 Student Performance & learning outcomes.**2.6.1. Does the college have clearly stated learning outcomes? If ‘yes’ give details on how the students and staff are made aware of these?**

Programme outcomes and course outcomes are well defined. Individual learning outcomes within courses are also defined which are listed in faculty course file.

- Outcomes are displayed in the departments, classrooms, & website.
- Outcome discussion takes place in parent meet.
- Course outcomes and learning objectives are also discussed in classroom by teachers.
- Course outcomes are communicated to students through course exit survey.

2.6.2 Enumerate on how the institute monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students’ results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

- After conducting the internal tests, marks obtained by the students are analyzed to understand the student achievement.
- The university also conducts the theory, oral and practical examination at the end of semester. The academic evaluation is done to assess the results and patterns of achievement across the courses
- The Institute carries out the analysis of University examination result for each programme.
- Review of academic progress is done through Monthly Information System and academic audit.
- Attendance of the students is given due importance which is monitored by attendance committee.

Communicating the progress and performance of students:

- After every examination progress reports are shared with students and parents.
- A student whose performance is below average in the examination is counseled through mentoring system.

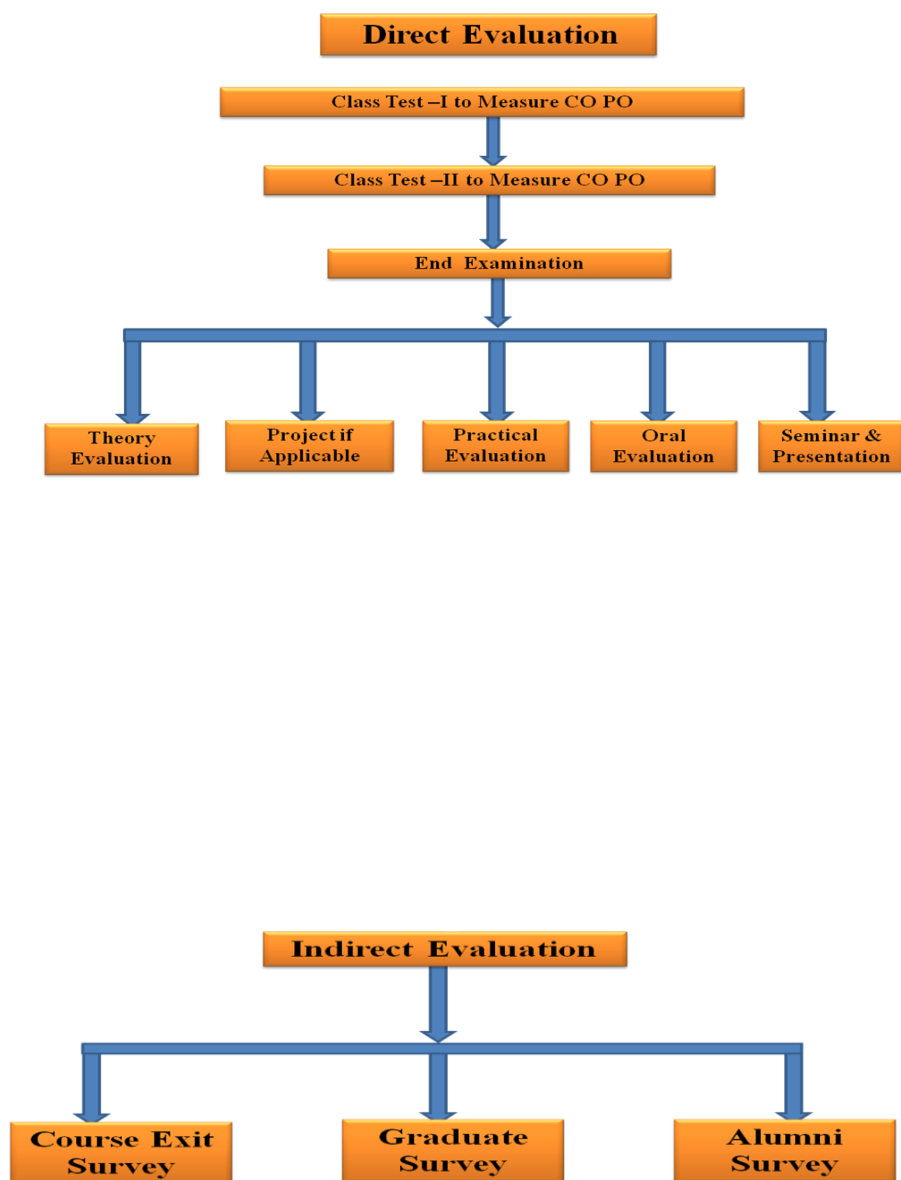
Passing percentage of **final year** university examination for last four years is an example of analysis of student results/achievements.

Programme	Passing %			
	2012-13	2013-14	2014-15	2015-16
Mechanical Engineering	67.74	87.18	81.71	94.44
Computer Engineering	85.48	95.00	95.74	100
Chemical Engineering	93.44	89.61	100	98.46
Electronics and Telecommunication Engineering	91.80	92	92.53	95.71
Civil Engineering	NA	95.91	100	95.35

- CBGS system and Sessional examination system/continuous evaluation were introduced in the academic year 2012-13.

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

- The Institute has structured several academic committees like IQAC, Academic Audit Committee and Research Committee that work to enhance the quality of teaching-learning. These committees provide academic leadership for continuous development of excellence in academics
- Students are active partners with shared responsibilities in teaching – learning process and hence various innovative teaching methods and student centric methods are adopted to enhance participation of students in teaching – learning process.
- The institute tries to convert budding engineers into responsible citizens by implementing various strategies.
- At the beginning of the semester, the course structure (teaching plan) is prepared by the course co-coordinators in such a way that each course will create better learning environment, will add some new technical topics and update contemporary knowledge in each student. Course outcomes (COs) are defined for every course in the course structure and these COs are mapped with POs.
- The assessment tools for attaining each PO along with the documentation are maintained as evidence.
- The evaluation of stated outcomes is done by Direct and indirect assessment tools which are as follows:



The CO-PO Attainment of course Microcontroller and applications due to Sessional Exam-1 assessment tool is highlighted in the below tables:

GHARDA INSTITUTE OF TECHNOLOGY, LEVEL THIRD YEAR (SEM-V) ACADEMIC YEAR 2014 MICROCONTROLLER & APPLICATIONS FIRST SESSIONAL EXAMINATION (27/08/2014)												
Sr. No.	Name of Student	Q1						Q2		Q3		Total
		a	b	c	d	e	f	a	b	a	b	
		2	2	2	2	2	2	5	5	5	5	
1	/ AMBRE POONAM ANIL ASMITA	2	2	2	2	0	2	3		5	4	18
2	AMBRE TUSHAR SHRIDHAR SEEMA	1	2	1	2		0		3			9
3	/ ASHTIKAR FRAIHA MAQSUD RUKHSANA	0	1	2		0	1	4			4	12
4	BELOSHE ABHIJEET BABAN SUNANDA	2	1	2	1			1				7
5	BHOIR RAHUL SUNIL SUSHAMA	2	2	2	1	2						9
6	/ BHOSALE SMITA TANAJI ANITA	0.5	2	2	2	2	1	5			4	18
7	CHAVAN AAKASH ASHOK ASHWINI	1		2			2	1			2	8
8	/ CHIKHALKAR SAYALI SANTOSH SARIKA	2	2	2	2	0	0.5	3			4	15.5
9	CHIPLUNKAR PRITAM BHARAT SUCHITA	2	2	1.5	1				1		0	8
10	CHOUGULE BHAGYESH CHANDRAKANT CHARUSHILA	1	2	1.5	1.5			0				6
11	DHANAWADE SACHIN LAXMAN ASMITA	1	2	2	2	0				1		8
12	DHANAWADE KUNAL KAILAS SMITA	2	2	2	2	2	2	3		1		14
13	DURGE MANDAR GAJANAN SUCHITA	2		2	2	2	2	5		1		16
14	/ GADEKAR PRIYANKA DADU VANDANA	1	2	2	1.5	1	1	4		0		11.5
15	GAWADE DATTARAM PRABHAKAR PRANALI		2	2	2	1	2	3		2		14
16	/ GAWALE JAYASHRI MARUTI SUNDERBAI	2	0	2	1		0	4				9
17	GURAV SANKET BALKRISHNA SHUBHANGI	1	1	2	1	2		3		2		12
18	JADHAV AMOL ASHOK ASHWINI	2	2	1	2		1	4		1		13
19	JADHAV MANDAR ASHOK VARSHA	2	2	2	2		1	5				14
20	JADHAV NIKHIL BHARDWAJ RAJANI	0.5	2	2	1		1	1			4	11.5
21	JADHAV OMKAR SURYAKANT SMITA	2	2	2	2		2		3		3	16

22	/ JADHAV PRACHI JAYAWANT BHARATI	2		2	2	2	2		5	2	4	19
23	JOSHI KANAD UMESH SANDHYA	2	1	2	2	1.5	1	4		3		15.5
24	KADAM AKSHAY SUNIL SNEHAL	2	2	2	2	2	2	4		3		17
25	/ KADAM AKSHAYA ANIL ANITA	2	2	1	2		0	1	0			8
26	/ KADAM PRAJAKTA PRAKASH POOJA	2		2	2	2	2	5		2	3	18
27	/ KADAM PRANALI PRADIP PRATIKSHA	1	2	2	2			1	0		1	9
28	KADU SURAJ SUDHIR ANITA	2		2	2	2	2		4		3	17
29	/ KARDILE SURAKSHA PRAKASH SANGITA	1	2	1.5	2			3				10
30	/ KASBALE SAYALI SANDIP SANDHYA	0	0.5	2	0	0		3			2	7.5
31	KATLE NIKHIL BHARAT ANITA	0	0	0.5		0	0	0		0		0.5
32	KHOT MUBIN AHMED KHALIL NASEERA	1.5	2	2	2	2	2	4		1	3	17
33	LAD MANOJ MAHENDRANATH MANASI	2	2	2	1.5	2	0.5	3		1		13.5
34	MAHADIK ANIKET TANAJI LATA	2	2	2	2	0	2	4		3	0	17
35	MANIYAR MUBIN IBRAHIM MUSRRAT	0	2	2	2	2	2	3				13
36	MHATRE SURAJ MAHADEV SINDHU	2	0.5	0.5	2	2	2	4	2	0		13
37	MHATRE TEJAS ASHOK PRITI	1	2	2	2		1			4		12
38	MODAK SOURABH MRITYUNJAY APARNA	0.5		0.5	1.5	0	1	3				7
39	MOKAL SAURABH BALKRISHNA VANDANA	1	2	2	2		1	3		4		15
40	MORE NIKHIL DEEPAK DEEPIKA	2	2	2	2			4			0	12
41	/ MUKANE DIPALI RAJENDRA SUMITA		1	2	2	1		3		0		9
42	NAKTI MITHUN RAMKRISHNA CHANGUNA	1	2	2	2	0.5		3		1		11.5
43	/ NEHATE MADHAVI RAJENDRA RITA	1	2	2	2			4	3			11
44	/ NIKAM RUTUJA YASHWANT YOGITA	2	2	2	2		1		2	5	4	16
45	/ PACHAKUDE SAMPADA SHANKAR SUGANDHA	2	2	2		2	2	4			4	18
46	/ PADAVEKAR MINAL MANOHAR SWAPNALI	1	1	2	2	2	1	3		3		14
47	PANCHAL CHINMAY KISHOR SUJATA	1	2	1	2		0.5	2		2		10.5

48	PATIL AVINASH BAJIRAO JAYASHREE	1	2	1	1	0		2		2		9
49	/ PATIL NEHA SHRIKANT PRAGATI	2	2	2	2		1	2			0	11
50	PATIL PRATHAMESH DINANATH SAVITA	2	2	2	2	2	0.5	0.5		2		12.5
51	PATIL SIDDHARTHA SANTOSH SUPRIYA	2	2	2	2	2		4		2		16
52	/ PATIL VIDITA VILAS SNEHA	2	2	2	1	0		1		0		8
53	/ SAKPAL NEHA SHRIDHAR SHRADDHA	1	1	2	2			3	3	3		12
54	SALVI AMEY RAGHUNATH ANITA	1	1	1	1	0	1	2		3		10
55	/ SATPUTE TRUPTI SUBHASH SUJATA	0	0	2	0		1	2		1	2	7
56	/ SAWANT CHAITALI RAMESH RUPALI	2	2	1.5	2	2	1	5			2	16.5
57	SAWANT MOHIT DAYANAND DARSHANA	1	2	2	2	2		3			1	13
58	SHAIKH SHAHAJAHAN JABBAR MAKKABEE	0		1		0	2	3		2		8
59	SHETH AKSHAY SANJAY SAYALI	2	2	2	1	2	2	3		3		16
60	SHINDE MANISH DEEPAK NEELAM	0.5		2	1	2	2	1		1		9.5
61	/ SHINDE NEHA VIJAY PRAGATI	2	2	2	2	2	1	4	3	4		18
62	SHINDE SARVESH SUDHAKAR SUCHITA	1	2	2	2	0	1	0.5		5		14
63	/ SHINDE SHOBHA BHAGWAT MANISHA	1	2	2	0.5	0	2		3	1	1	11.5
64	/ SHINDE SIDDHI SANDIP SEEMA	2	2	2	2	0	2		4		3	17
65	SHIRKE KALIDAS DHARMU RANJANA	2	2	2	1		1	3		1		12
66	SHIVALKAR SANKET SHARAD SAYLI	0		2	2	0	2	5	4	5		16
67	SHUKLA BHUPENDRA SEVARAM GEETA			2	2	2	2	4		3		15
68	SOLANKI AAKASH PURSHOTTAM BHARTI		1	2	2	2	2	4			0	13
69	/ SURVE SNEHAL SURESH SHWETA	2	2	2	2		1	4				13
70	TAMKE SHAILESH KISHOR KIRAM			2			0.5	4		1		8
71	THAKUR PRITESH GIRIDHAR SMITA	1	2	2	2	2	1	3		2	4	16
72	UPALKAR VINIT VITHAL VINITA	2	2	2	2		2	3		5		18
73	/ VIBHUTE ARTI RAJESHWAR ANITA	1	0.5	2	2		0.5	3			2	11

74	/ WAYDE SAPANA RAJESH SHARADA	2	2	2	2		0.5	4		3		15.5
75	YADAV VISHAL VITHOBA RAJASHREE	2	2	2	2		2		4	4		18
Total MARKS AWARDED		97.5	108.5	136.5	118.5	55	74.5	190	44	100	64	
NUMBER OF STUDENT ATTEMPT		70	64	75	69	46	57	63	16	45	27	
MAXIMUM MARKS ALLOTTED		2	2	2	2	2	2	5	5	5	5	
COURSE OUTCOME ATTAIN		1	1	1	1	2	1	1	1	2	1	
% CO ATTAINMENT		69.64	84.77	91	85.87	59.78	65.35	60.32	55	44.44	47.41	

Summary Sheet of COs and POs Attainment for the Subject: - MICROCONTROLLER & APPLICATION								
Academic Year: - 2014-15								
Subject Code:								
Semester-ODD								
Sr. No.	Assessment tool	Attainment marks						
		CO1	CO2	CO3	CO4	CO5	CO6	CO7
1	Sessional Exam-I	69.91	52.11					
2	Sessional Exam-II	59.71	42.05	37.33				
3	Assignments	73.2	70.13	73.2				
4	Lab Performance		85.27	83.6	83.86			
5	University Practical Exam		64.21	64.21	64.21			
6	University Theory Exam	44.58	30.13	27.97	33.00			
Average		58.2	57	57.4	60.4			
Course Exit Survey		80.76	80	81.15	80.38	80.38		
Weighted Average		62.7	61.6	62.2	64.4	80.4		
Mapping of COS with POS (Place " * " Mark only)								
Sr. No.	POS	CO1	CO2	CO3	CO4	CO5	CO6	CO7
1	PO1	*						
2	PO2	*	*	*				
3	PO3		*	*				
4	PO4		*	*				
5	PO5	*	*	*				
6	PO6							
7	PO7							
8	PO8							
9	PO9							
10	PO10				*			
11	PO11							
12	PO12					*		
Signature of Course Co-ordinator (Subject Expert/Faculty)				Signature of HOD				

GHARDA INSTITUTE OF TECHNOLOGY, LVEL									
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION									
PO attainment due to COs of the subject: - MICROCONTROLLER & APPLICATIONS									
Sr. No.	POS	CO1	CO2	CO3	CO4	CO5	CO6	CO7	Average PO
1	PO1	62.74							62.747
2	PO2	62.74	61.57	62.17					62.162
3	PO3		61.57	62.17					61.87
4	PO4		61.57	62.17					61.87
5	PO5	62.74	61.57	62.17					62.162
6	PO6								
7	PO7								
8	PO8								
9	PO9								
10	PO10				64.36				64.364
11	PO11								
12	PO12					80.38			80.385
Signature of Course Co-ordinator				Signature of HOD					

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (quality Jobs, entrepreneurship, innovation and research aptitude) of the courses offered?

Quality Jobs:

- Training and placement department conducts different training programmes to enhance employability of the students.
- Institute has structured research committee with the objective to develop research environment in the institute and motivate faculty and students to get actively involved in research projects.
- Students are encouraged to take social issues as their problems for mini and major projects.
- We impart training to all students to improve their skills in presentation, communication, team work, aptitude and leadership.
- Apart from soft skill and aptitude training, the institution also provides technical skill development programs to the students. The training of the software like AUTOCAD, CATIA, ANSYS, MATLAB etc. from the experts is provided to the students.

Higher studies and research areas:

- The institute arranges informative lectures of experts in career guidance for higher education and contemporary issues.
- Every year, different departments of the institute conduct coaching classes exclusively for GATE examination preparation. It helps to encourage students to participate and perform for the higher study education and in the field of research.

2.6.5 How does the institution collect and analyze data on student learning outcomes and use it for planning and overcoming barriers of learning?

- Every course teacher prepares Teaching plan and implements the Teaching plan with reference to the academic calendar. Every course teacher maintains a course file which contains the data pertaining to performance parameters such as attendance, course outcome achievements, programme outcomes and other supporting evidences of teaching learning process.
- Students participate in different activities viz. quiz, seminar, group discussion, poster presentation conducted by respective course teacher.
- Every teacher at the end of the semester submits the course file along with results of the course and program outcomes. Teacher suggests the gaps in the outcomes and takes corrective measures about the outcomes in the next cycle of teaching learning.
- The institution has a clearly defined set of mechanism to monitor the learning outcomes which is based on Programme Educational

Objective's (PEOs) and Programme Outcomes (POs), Course outcomes (COs). Each department has set the PEOs, Pos and COs. According to this, the performance of each student is evaluated by assessment tools.

- The tutorials and assignments are evaluated continuously which helps to monitor academic progress of student.
- The MIS reports are analyzed and discussed in detail in the monthly meeting of local managing committee. The feedback about pace of the syllabus coverage, the teaching methodology employed by the faculty members, and the conduction of laboratory exercises is summarized.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

- Departmental Advisory Board (DAB) and the programme assessment committee (PAC) to monitors the learning outcomes of students. Gaps in learning outcomes indicated and are analyzed. Remedial steps are taken to ensure that learning outcomes are fulfilled.
- At institute level, IQAC looks after the achievements and gaps of learning outcomes and other quality parameters of teaching-learning process. IQAC also takes care of other academic support processes.
- To ensure the achievement of learning outcomes, institute focuses on planning and effective execution of teaching learning process. The academic calendar is designed in the beginning of the semester has a detailed schedule of internal tests.

Attainment of POS by each department for academic year 2015-16

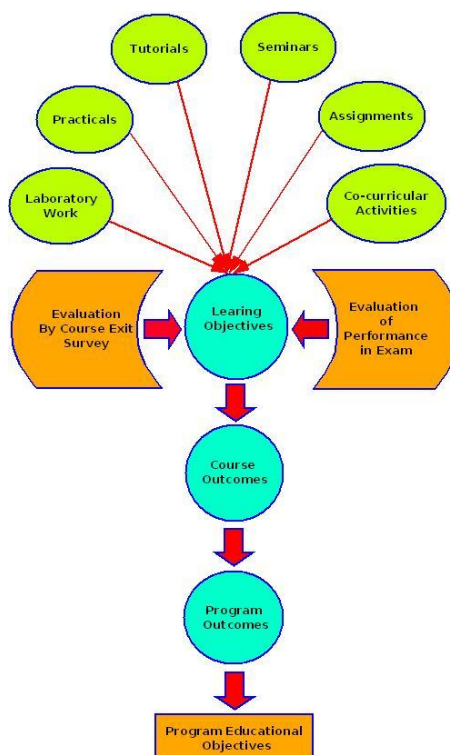
Attainment of POS in % for the year 2015-16					
POS	Civil	E&TC	Mech	Chem	Comp
PO1	M	M	M	L	M
PO2	M	M	M	M	M
PO3	M	M	M	L	M
PO4	L	M	M	L	H
PO5	M	M	M	M	M
PO6	M	M	H	M	H
PO7	M	L	M	L	M
PO8	L	H	M	M	M
PO9	L	M	M	M	H
PO10	L	M	M	L	M
PO11	M	M	M	M	H
PO12	M	H	H	M	H

2.6.7 Does the institution and individual teachers use assessment/evaluation as an indicator for evaluating student performance, achievement of learning objectives and planning? If ‘yes’ provide details on the process and cite a few examples

Individual teachers, use various performance indicators for assessment/evaluation. Both qualitative as well as quantitative evaluation methods are used. Statistical analysis, wherever applicable, is used.

While delivering a course, learning objectives in line with course objectives are identified by individual teacher. Tutorials are extensively used for ensuring that student acquires relevant expertise expected out of learning objective.

- Every course teacher defines learning objectives in conformity with course outcomes. He aligns his teaching method to ensure that student acquires the skill expected out of learning objective either in class room or practical or tutorial or assignment or mini/ full project.
- During the semester teacher does the evaluation of student performance by using various direct assessment tool like Practical performance, assignments, and Sessional exams, Oral practical Examinations and theory examination and indirect tools like course exit survey.
- At the end of the semester teacher does CO-PO mapping and calculates PO attainment. It indicates the student’s performance, achievement of learning objective and planning.



Few examples:

- 1 A learning objective regarding ability to fit basic mathematical equations to the experimental or research data is defined and is in line with course outcomes of certain courses related to numerical methods or simulation. This learning objective is achieved in Tutorial by giving students data and asking them to find out best fit using error analysis.
- 2 Another typical learning objective defined as ability to draw bar chart and PERT/CPM chart for miniproject to convert miniproject data into an optimisation problem using linear programming. This is in line with the course outcome related to courses dealing with scheduling/operation research/project management. This learning objective is achieved through tutorial as well as assignment.

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION**3.1 Promotion of Research**

Institute has strong research promotion culture and policy for students, teachers and staff members. The policy promotes participation in all research activities, higher studies and internship program. Policy also comprises provision of resources and other facilities for the promotion of research. Institute also encourages and sponsors teachers for their postgraduate, doctoral studies.

3.1.1 Does the institution have recognized research centre/s of the affiliating University or any other agency/organization?

To establish research centre recognized by university/agency at least Institute needs to run a post graduate course. Being UG institute, efforts are underway to carryout research activities. Faculty members of the institute are using the laboratory facilities for their research requirements. In case of additional infrastructural requirements, they are using the facilities of research centres of the other universities/ institutes. Recently Gharda Scientific Research Foundation has started its activities on campus which will help the institute in carrying out further research activities.

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

- Research and Development Committee (RDC) is working since 2015 to promote research, training, industrial liaison, consultancy, and assignments. The composition of Research and Development Committee is as follows:

Sr. No	Name of the Staff	Department	Designation
1	Dr. Gharat S. H.	Chemical Engineering	Chairperson
2	Prof. Satpute M.S.	ASH	Member
3	Prof. Khalkar V.R.	Mechanical Engineering	Member
4	Prof. Patil P.P.	Computer Engineering	Member
5	Prof. Latkar S.D.	EXTC Engineering	Member
6	Prof. Bhosale A.D.	Civil Engineering	Member
7	Prof. Danawade B.A.	Mechanical Engineering	Reviewer
8	Mr. Rajguru R.S.	General Administration	Member

Aims and Objectives of Research and Development Committee

- To offer comprehensive research environment
- To develop inter-disciplinary talent and technical cooperation
- To establish liaison with research institute, universities and industry
- To promote consultancy culture
- To build effective undergraduate research environment in the institute.

Role and Responsibilities of RDC committee

- Encourage, initiate and monitor research projects sponsored by various funding agencies like DST, DRDO, DAE, ISRO, CSIR, UGC, AICTE and University of Mumbai
- Coordinating research proposals for workshops/conferences and seminars
- To create manuals/guidelines for methodology for undergraduate research, literature review, design of experiments and presentation.
- To Promote collaborative research in association with research institute, industries and universities

Recommendations

- To prepare and submit research proposals to university and funding agencies
- To publish research articles in reputed peer reviewed journals
- To attend the conferences , workshops, seminars relevant to their research area
- To promote students to take up research oriented projects

Impact of recommendations

Following data shows the impact of the recommendations:

- The publications by the faculty members in national/international journals and conferences have increased compared with previous years.

Academic Year	2013-14	2014-15	2015-16	2016-17
In Journals	16	47	31	10
In Conferences	37	19	20	10
Total	53	67	51	20

- Participation of students in seminars/conferences has also increased compared with previous years.

Academic Year	2013-14	2014-15	2015-16
No. of students participated	135	209	374

- Minor research proposals submitted to university of Mumbai

Academic Year	2013-14	2014-15	2015-16	2016-17
No. of proposals	0	2	22	09

- Industry sponsored projects

Academic Year	2013-14	2014-15	2015-16	2016-17
No. of projects	18	10	14	13

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?

Autonomy to the principal investigator

- The principal investigator has complete autonomy to select research problem and arrange resources required with the help of institute.

Timely availability or release of resources

- The institute has made funds available for the research work and is released as per the demand of the faculty.

Adequate infrastructure and human resources

- Institute has made available laboratory equipments and supporting staff to carry out research activities.

Time-off, reduced teaching load, special leave etc. to teachers

- Teaching load of faculty who has taken up research is adequately shared by other faculty members in the department.
- Study leave facility is extended to the faculty.

Support in terms of technology and information needs

Adequate internet band-width facility and Wi-Fi are provided. The Institute has updated the library by subscribing e-journals to facilitate research environment and interest amongst the teachers and students.

Facilitate timely auditing and submission of utilization certificate to the funding authorities

- The timely auditing of research projects and submission of utilization certificate is carried with the help of account department of institute.

Any Other

- Institute has good manufacturing and testing facilities along with skilled manpower which form basic requirements for the research. These resources are shared with all the departments in the institute. The central workshop is extensively used by all. The Research center of Gharda Scientific Research Foundation, located in GIT is also available as

resource for students and faculty.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

- Institute conduct workshop for the students which educate the students on the aspects of research like Why & How to Research, Formulation of Research Problem, Literature Review, Methods and Methodology & Technical Writing for Presentation of outcomes. These workshops act as an input to the students in their seminar and project work and bring a radical change in the students' mindset and help them to perform quality research at undergraduate level.
- Institute organizes "Shodh" annually, a National Level Technical Event for the students. The event includes Technical Paper presentation competition, software development, quizzes, gaming, aptitude tests, Model Making; robot competitions to develop scientific temper and research culture in student.
- Students are also encouraged to participate in various activities like inter Institutes/University level competition, Chemcon, IIT Tech Fest through which the students are developing innovative projects.
- The required technical support, workshop facility, laboratories and other support is also given from the Institute.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.

Every department of the institute have specialized research areas and have good computing facilities. Faculty guides the students for internship, seminars, projects and technical papers.

- Faculty is involved in the research projects funded by University.
- Faculty is also associated in the industry sponsored projects.
- Faculty regularly presents research papers in conferences and journals.
- Faculty members along with students present research papers in conferences.

Faculty involvement in guiding Student research project:

Department	Year	Topics	Name of Faculty as Guides
Mechanical	2015-2016	Solar Power Electrolux Refrigeration System	Dr. A. C. Gangal
	2014-2015	Synthesis and Characterization of Magneto Rheological	Prof. B. K. Kumbhar
	2013-2014	Bio Digester Toilet for Indian Rail	Prof. B. A. Danawade
Civil	2015-16	Analysis of use of Geogrid to Improve Stability	Prof. G.D.Parulekar
		Evaluation of Sliding Rate In Gabion Structure with Inclined Back Fill	Prof. V. S. Jadhav
		Soil Stabilization by using Quarry Dust for & B.C. & Konkan Soil.	Prof. A. D. Bhosale
E&T C	2015-16	Soil Analyzer using Embedded System.	Prof. S. C. Munghate
		Health Monitoring System Based on Zigbee And GSM	Prof. S. K. Muchande
	2014-15	Li-Fi (Light Fidelity)- The future Technology in Wireless Communication	Prof. S. R. Khedekar
		LAN Configuration using Software Defined Networking	Prof. S. S. Tathare
	2013-14	Sun Tracking Solar Panel for Domestic Use	Prof. S. K. Muchande
		Solar Oxygen Tree	Prof. M.S.Gadre
Computer	2013-14	Face Controlled Mouse & Events based on Voice for Disabled People	Prof. D. N. Londhe
	2014-15	Automatic Detection and Classification of Plant Diseases Using Image	Prof. P. P. Patil
	2015-16	Signature Verification Using Artificial Neural Network	Prof. M. R. Balpande
Chemical	2015-16	Flow and Segregation of Granular Materials	Dr. S. H. Gharat
	2014-15	Hydrogen Synthesis from Aluminium	Prof. S. P. Tekade
	2013-14	Separation of Metal Ions from Wastewater by using Different Adsorbents	Prof. S. M. Teli

Leading Research Projects:

Name of Principal Investigator	Project
Prof. B. A. Danawade	Study of Size Effect of Wood Beam on Flexural Strength of Wood Reinforced Steel Tube (Project Number: 331)
Prof. B. A. Danawade	Shearing Strength of Adhesive in Wood-Steel Composites (Project Number: 364)
Prof. R. R. Kalamkar	Novel Methods for Hydrogen Storage (Project Number: 387)
Prof. S. N. Pandharkame	Design of HEMT Oscillator in X Band used for Satellite Communication
Prof. B. S. Godbole	Heat Transfer Enhancement for Laminar Flow in Double Pipe Heat Exchanger using varying Twisted Tape
Prof. Khedekar S.R.	FPGA implementation of 3D DOA estimation algorithm
Prof. Latkar S.D	Study of Routing in WLAN for performance improvement
Prof. Mohite M.A	Design and Implementation of Micro strip patch antenna using PMC
Prof. C. S. Shinde	Exploration of Oxianionic Fe-Based Cathode Materials For Secondary Batteries

Faculty involvement in research project:

Department	Research Area/ expertise	Faculty
Mechanical	Wood-Steel Composites	Prof. B. A. Danawade
	Vibration Analysis of Cracked Beam	Prof. V. R. Khalkar
	Hydrogen Storage	Prof. R. R. Kalamkar
Computer	Big Data Analytics	Prof. A. K. Mangore
Civil	Structural Engineering. Seismic Control of Structure using slope bottom Tuned liquid Dampers.	Prof. A. D. Bhosale
	Mineral Magnetic and Sediment logic Studies of Surface Sediments from Godavari Drainage Basin: Implications to Sediment Source Mixing.	Prof. Y. R. Kulkarni
E&TC	Wireless Communication (Smart Antenna)	Prof. S. R. Khedekar

Chemical	Networking and Communication	Prof. S. D. Latkar
	Biomedical Engineering	Prof. P. V. Oak
	Granular Materials, DEM Modelling	Dr. S. H. Gharat
	Cavitation, Waste Water Treatment, Process Intensification, Biogas Production.	Dr. P. N. Patil
	Reactions in Micro reactor, Hydrogen Generation by Water Splitting, Salt Effect on VLE	Prof. S. P. Tekade
	Waste Water Treatment using Ultrasound	Prof. S. D. Ayare
	Multiphase Reactor	Prof. S. M. Teli
ASH	Nonlinear Process Dynamics, Reaction Engineering.	Prof. R. G. Nalwala
	Synthesis & Characterization of Some Novel Vanillic Acid Derivatives by Green Method	Prof. M. S. Satpute
	Exploration of Oxianionic Fe-Based Cathode Materials For Secondary Batteries	Prof. C. S. Shinde
	Synthesis and Characterization of Binary & Ternary Metal Oxides & Study their Applications.	Prof. S.A. Howal

Faculty involvement in collaborative research project:

Title of project	Date	Sponsoring Agency	Collaboration with
Joint road survey from Kasheree to Chiplun with Traffic Police Department to minimize accident rate during Ganpati Festival due to heavy traffic. (1 & 2 September	01/09/2015 to 02/09/2015	GIT, Sponsored	Highway Traffic Police, Khed region
Survey and Analysis of Landslide and Seepage Loss in Konkan region.(Sangmeshwar and lote parshuram)	14/07/2016 & 15/08/2016	Social Work	Lokmudra Pratisthan, Lote
Optimization of Kinetic Parameters for Coal Liquefaction Process	2015-16	Gharda Chemicals Ltd. Lote	Gharda Chemicals Ltd. Lote
Microbial Fuel Cell	2015-16	Divine	Divine

		Chemicals Ltd, Lote	Chemicals Ltd, Lote
Removal of Colour from Effluent	2015-16	CETP, Lote	CETP, Lote
Energy Auditing	2014-15	KEN-Chemical Pvt. Ltd.	KEN-Chemical Pvt. Ltd.
Study of Recirculatory Fluidized Bed Reactor	2013-2014	Gharda Chemical Ltd., Lote	Gharda Chemical Ltd., Lote
Removal of Methane Sulphuric acid	2013-2014	Excel Industries Ltd, Lote	Excel Industries Ltd., Lote
Coal drying by Fluidized Bed	2013-2014	Gharda Chemical Ltd., Lote	Gharda Chemical Ltd., Lote
Molten Salt Circulation	2013-2014	Gharda Chemical Ltd., Lote	Gharda Chemical Ltd., Lote
Coal Liquefaction	2013-2014	Gharda Chemical Ltd., Lote	Gharda Chemical Ltd., Lote
Recovery of Vent Gaseous	2016-17	Vinati Organics Ltd, Lote	Vinati Organics Ltd, Lote
Separation of ACN from water	2016-17	Vinati Organics Ltd, Lote	Vinati Organics Ltd, Lote

3.1.6 Give details of workshops/training programmes/sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students. –

Institute and all the departments are very active in organizing conferences, seminars, Faculty Development Programs and workshops for imbibing research culture among staff and students. Following is the list of such activities organized in the institute:

Name of Programmes	Organizing Department	Resource Persons	Date and duration	Target Audience
Fundamentals of Computational Fluid dynamics	Mechanical Engineering	Dr. Kaushal Prasad, F.A.M.T Ratnagiri	15/09/2015	100 (T.E. and B.E Students)
Workshop on Vehicle dynamics & Engine Automation.		Robo Edutech India Pvt. Ltd	15/01/2015 to 17/01/2015	40 (T.E. and B.E Students)
3D printing & Additives Manufacturing		Mr. Ameya S. Khambete, Manager, CAD CAM Guru	04/02/2015	68 (B.E students)
Soft Skills training Program		Prof. Anuradha Sonawane	11/09/2015	45 (B.E students)
Workshop on PLC software and Hydraulic & Pneumatic Kit		Prof. V. M. Swami, Assistant Professor, GIT Lavel	12/07/2013 to 13/07/2013	22 (B.E students)
Lecture on “ CAD-CAM-CAE software		Mr. Rajan R. Mechery & Mr. Mayur Dhuri	27/08/2012	81 (BE & TE Mech. Students)
Lecture on Refrigeration & Air Conditioning		Mr. Mahesh Suryarag, Ganesh Ice Factory, Lote.	20/10/2012	63 (B.E students)
Catia Training Program		Mr. Atul Goyal, PLM Support Consultant, TATA	26/12/2012 to 28/12/2012	9 (Faculty)

		technologies.		
F1 Car Design		Mr. Rakesh Sharma	27/01/2017 to 28/01/2017	TE, BE 59
ISTE approved STTP on “Research Methodology: Tools & Techniques	Computer Engineering /IT/EXTC	Dr. S. A. Patil (HOD, EXTC)	29/06/2015 to 3/07/2015	17 Faculty from GIT
ISTE approved STTP on “Cloud Computing”	Computer Engineering	ATS Microsoft Academy, Delhi.	2/01/2017 To 06/01/2017	11 Faculty from GIT
One week workshop on “MVC Technology”		Antrik System Pvt. Ltd., Mumbai	2/01/2017 To 06/01/2017	24 students
Workshop on “Phone Gap and Hybrid Application Development and Cross Linking Platform”		Mr.Gaurav Agarwal, from Techocripts	3/09/2015 to 4/09/2015	51 Students
DotNet Technology and Cloud Computing		Mr. Ravischandra Gupta, ATS Infotech	From 29/02 to 8/03/16, 25/05 to 5/06/13, 21/08 to 3/09/13 (14Days) 19/09 to 12/10/13 (24Days)	31 students for TE(COM P)
“C++ Programming”		Prof. Modani D.G. Prof. Patil P.P. in collaboration with Codeest software factory	From 1/01 to 28/02/16	17 Students IT and Comp

Android Programming		Prof. Kalokhe P.R. & Prof. Bhosale A.A. in collaboration with LogicBits	18/01 to 1 /03/15	22 Students from Comp and IT
“Switching & Routing in Computer Networks.”		Prof. Borade J.G. & Prof. Rane V.N.in Collaboration with Yash Systems Ltd	20 /07 to 17 /08/14	21 Students from Comp and IT
Microsoft Technology Associates: Web Development Fundamentals		ATS, Microsoft Academy	26/09 to 30/09/14 Additional practice : Program1 (80 Hrs.) Program2 (60 Hrs.)	20 Students from TE and SE Computer
Course on c language		Prof. Londhe D.N. & Prof. Balpande M.R. with Codeest Software Factory	2/2/2014 to 16/3/2014 (Sunday only)	For TE Students
Course on PHP Web Technology		Prof. Pawar R.B. & Prof. Gajmal K.M. in collaboration with LogicbIts.	21/07 to 18/08/13 (Sundays Only)	For TE Students
Cyber Scene Investigation		Mr. Kartik Vighneshwar from InfySEC	23 to 24/08/14	For TE Students
Workshop on STAAD PRO	Civil Engg. Dept.	Mr. Zahir Shaikh	31/01/2017 to 15/02/2017	BE, TE & Faculty
Workshop on 3D Max		Mr. Zahir Shaikh	31/01/2017 to 15/02/2017	BE, TE & Faculty

Workshop on “Total Station” Surveying.		Mr. Dayanad Kale, GAOOLP Constuction.	12 to 13/03/16	Faculty and BE students
Workshop Introduction to Structural Analysis		IIT, Khargpur.	04 To 09 /01/16	Faculty Civil
IOT based Seminar	Electronics & Telecommunication	Mr. Sharad Tiwari	6/02/17	TE (15)
CMOS, Mixed Signal and Radio Frequency VLSI Design		ISTE, IIT Kharagpur	30/01/17-04/02/17	Faculty
Robowars		Mr. Sharad Tiwari	04/02/2017 to 06/02/2017	FE, SE, TE & other colleges(106)
IOT based Project Seminar		Mr. Sanjay Awati	30/01/17	TE and BE(80)
TV Workshop		Mr. Hari Pol	22/01/17	SE & TE(18)
Webinar on “Embedded Systems”		Mr. Sharad Tiwari	20/09/16	TE & BE (80)
Webinar on “Recent Trends in IT Industry”		Miss. Sayali Yewle	20/09/16	TE & BE (80)
Industrial Automation & Robotics Seminar		Mr. Vinay Kumar & Mr. Deepak Jaiswal	21/09/16	TE (43) & BE (52)
BIG DATA & HADOOP		Mr. Amit Koli	14/08/2016	T.E./B.E. (20)
IIT Bombay projects		Mr.Rohan Kharade	06/08/2016	T.E. /B.E(74)
Research Methodologies		Dr. S. A. Patil	29/06 - 3/07 /15	Faculty
Application Specific Soft ware in Communication		ISTE	05/05/15 to 09/05/15	Faculty

Engineering				
Cyber Security		Mr. Nishant Sharma	10/07/14 to 20/07/14	Faculty & students
Control Systems		ISTE, IIT Kharagpur	02/12/14 to 12/12/14	Faculty
Computer Networks		IIT Bombay	30/06/14 to 05/07/14	Faculty
Computer Programming		IIT Bombay	28/06/14 to 10/07/14	Faculty
Signal Systems		ISTE, IIT Bombay and IIT Kharagpur	02/01/14 to 12/07/14	Faculty
Analog Electronics		IIT Kharagpur	04/06/13 to 14/06/13	Faculty
“How to do the further career in research”		Prof. A.B. Pandit, Prof. S. S. Bhagwat (ICT, Mumbai), Prof. S. Ganeshan (IIT Bombay), Mr. Vijay Sane (GCL Dombivli)	23/10/2015	(TE & BE) 100
Role of Professional body in Career Development	Chemical Engineering	Mr. S. D. Sane and Mr. V. Y. Sane	8/8/2014	TE & BE) 114
Process Calculation and Distillation in Chemical Industry		Mr. V. R. Vaidya	22/01/2015	TE & BE) 120
Recent Advances in Chemical Engineering		Mr. Brijesh Khedkar	9/04/2014	TE & BE) 51
Short Term Training Program (STTP) on Ansys Fluent (CFD)		Mr. Jasawant Ravula	9/11/2016 to 13/11/2016.	TE & BE) 20

Software	ASH			
Two days Workshop on Hysys		Mr. Sumit Asarani	7/10/2016 to 08/10/2016.	TE/BE Students,
Technical Communication		Prof. P. Sunthar	30/11/2015 – 5/12/2015	Faculty & BE Students
Android Applications Development		Mr. Sampuran Singh	1/03/2015 – 2/03/2015, 16/10/2015 – 20/10/2015	FE Students
Android Applications Development		Mr. Amit Thool	16/03/2016 – 17/03/2016	FE Students
Engineering Physics		Dr. Dipen Ghosh, Dr. Shiva	07/9/2015-11/09/2015	Faculty

All departments of the institute are always committed towards capacity building research activities and inculcating research culture amongst students and faculties. We are committed towards quality conduction and excellent management and coordination of the events. Institute has also tie ups and association with Gharda Chemical Limited for resource exchange and sharing.

3.1.7 Provide details of prioritised research areas and the expertise Available with the institution.

Following are the details of prioritized research areas and the expertise available with the institution:

Department	prioritised research areas	Faculty Expertise
Mechanical Engineering	Machine Design, Production, Manufacturing Technology, Heat & Power,	Prof. Bharatesh A. Danawade Prof. Virbhadr M. Swami Prof. Vikas R. Khalkar
Computer	Database, Programming &	Prof. Borade J G,

Engineering	Data Structures, Computer Graphics, Information Security, Operating System	Prof. Khandke M.A, Prof. Mangore A K, Prof. Gajmal K M
Civil Engineering	Geotechnical Engineering Engineering Geology Environmental Engineering Structural Engineering Construction Management	Prof. N.H.Koppa Prof. Y.R.Kulkarni Prof. \ R.I.Hujare. Prof. A.D.Bhosale Prof. G.D.Parulekar
Electronics & Telecommunication	Wireless Communication(Smart Antenna) Networking and Communication Biomedical Engineering Microwave & Networking Embedded Systems Microwave and RF	Prof.. Sachin Khedekar Prof. Sachin D. Latkar Prof.Pratik Oak Prof.Sameer Tathare Prof. Sandeep Munghate Prof. Madhusudan Mohite Prof. Tirupati Ilapawar Prof. Subodh Pandharkame
Chemical Engineering	Granular Materials, DEM Simulation, Process Intensification, Micro reactor, Nonlinear Process Dynamics	Dr. S. H. Gharat Dr. P. N. Patil Prof.S. P. Tekade Prof. Rohitbabu G Nalwala
Applied Science and Humanities	Synthesis & Characterization of Some Novel Vanillic Acid, Material science, Synthesis and characterization of Metal oxides	Prof. Satpute M S Prof. Shinde C S Prof. Howal S A

3.1.7 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

- Institute arranges conferences, workshops and seminars for faculty and students.
- Researchers, scientists and industrial experts are invited to deliver key note addresses and as resource persons.
- Institute has been recognized as Remote centre by IIT- Mumbai and IIT Kharagpur which gives opportunity to faculty to interact with researchers.

Details of some of the eminent personalities visited the campus and interact with teachers and students:

Name of eminent Person	Date of visit	Detail of interaction
Dr. K. H. Gharda	January 2012	Inauguration of Civil Department.
Dr. Kaushal Prasad, F.A.M.T Ratnagiri	15/09/2015	Workshop on Fundamentals of Computational Fluid Dynamics
Dr. Sanjay Bhandari, HOD, Mech Dept, RMCET Devrukh	26/02/2015	Seminar on Corporate World
Captain. S.G. Balchandra, Captain 3/1 Gurkha rifles.	23/09/2013	Lecture on “Career in Defence force for potential Engineers
Dr. Deven Shah Principal, Terana College of Engineering, Mumbai.	12/9/2015	Seminar on Discussed various issues related to real time implementation of cloud computing
Dr. Pradeep Saxena, PhD, Principal RSCOE, Pedhambe	30/10/2015	Reviewed the importance & scope of open source Operating Systems & Soft wares
Dr. Shantanu Chakraborti, Retired Head Research Applications, Research & Development, Tata Steel, Jamshedpur	19/3/2016	Expert talk on Resent Research in Steel Structure
Mr.Dilip Desai, Architect,	20/3/2016	Expert talk on Advance R.C.C. Design.
Prof. M.R.Bhosale, Principal, SP, Sawarde	10/11/2015	Seminar on Recent Research Areas
Dr. R. K. Lagu, Project Director, IIT Bombay	17/07/14	As a Mentor to enrich Research activities
Mr. Rohit Pardasani, Manager, CISCO, Mumbai	07/10/15	Seminar on Importance of Cisco Certification in Industry
Mr. S. N. Todkar, Scientist, BARC	01/08/15	Seminar on Mechanism explanation on Anti-collision Device

Dr. R. N. Duche, Member BOS, University of Mumbai	08/05/15, 07/04/13	Workshop on Application Specific Softwares in communication Engineering., PCB Designing using DIPTRACE and express PCB software
Dr. J J Kadam, Member BOS, university of Mumbai	19/03/2016	Expert talk on selection of project
Dr. Malshe Milind	17/01/2015 & 18/01/2015	Workshop on effective communication for all GIT faculty
Prof. S. S. Bhagwat (Head of Department, ICT Mumbai)	23/07/2016	Seminar on How to select research area? & How to write research papers, patents and proposal?
Prof. S. Ganeshan (IIT Bombay) Prof. S. S. Bhagwat (ICT Mumbai) Prof. A. B. Pandit (ICT Mumbai) Mr. Vijay Sane (DGM, R&D, GCL Dombivali)	23/10/2015, 08/08/2014, 24/08/2013	Expert talk on how to get industrial project from funding agencies/ industries. How to get and do the consultancy for industries Discuss on research and development activities of Gharda Chemicals Ltd. Dombivali
Prof. A. V. Patwardhan, ICT, Mumbai	31/01/2015	Seminar on How to do the research and also guided each faculty on his specific area of interest
Dr. S. K. Chakraborty	8/01/2017	Reviewing selected BE projects
Dr. S. S. Bhagwat	14/10/2016	Expert talk on Career Guidance and Career Options in Chemical Engineering
Prof. K. Sahasranaman	14/10/2016	
Mr. Vikram Bhat	14/10/2016	
Mr. Vijay Sane	14/10/2016	
Mr. Rajesh Jain	14/10/2016	
Dr. S. C. Mallick	29/07/2016 &	How to improve interaction with Industry

	28/08/2016	through students Projects, Faculty Projects
Dr. A. B. Marathe	25-27/11/2016	Expert Talk Thermodynamics

3.1.8 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

- Institute has a culture of promoting research activity as well as higher education. Faculty pursuing higher education and Ph D are encouraged in following way;-
 - 1) They are relieved as required and depending on location of higher education/research.
 - 2) Concessions in terms of outside duty concession/adjustments of leave are given as requested by individual faculty member.
- About 18 % faculty members have availed the facility for course work/research work.

Department	Faculty pursuing PG	Completed PG	Faculty pursuing PhD	Completed PhD
Mechanical	-	6	3	--
Computer	--	8	1	--
Civil	--	6	2	--
E&TC	--	5	4	--
Chemical	--	--	3	--
ASH	--	--	5	1

3.1.9 Provide details of the initiatives taken up by the institution in creating awareness/ advocating /transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

- Institute houses research facility and a separate research center in collaboration with Gharda foundation and Gharda Scientific Research Foundation.
- Each department has research equipment suitable for quality research.
- Institute is housed in spacious campus of 29.13 acres with built up area of 33000 square meters. Adequate research area exists in every department. All laboratories have floor space area in excess of requirement and separate research work tables are provided wherever required.

- Institute has subscribed to e-resources required for research work.
- Institute has signed MOUs for collaborative research.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

Year	Total Budget (Rs.)	Research Budget (Rs.)	Total Expenditure (Rs.)	Research Expenditure (Rs.)	% budget earmarked for research	% budget utilized for research
2016-17	1318.66	9.60	1079.01	2.14	0.73	22.29
2015-16	1,617.02	127.9	1561.97	62.02	7.91	48.8
2014-15	1,642.52	8	1360.63	3.95	0.49	49.4
2013-14	1,347.34	8	1317.59	16.04	0.59	205
2012-13	3,219.26	6	1351.88	1.24	0.19	20.66

*Figure shown in table is in Lacs

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

The Seed Money is provided to submit successful external grant applications as per the faculty request. Faculty seeks support for projects that are designed to produce a technology and publication outcomes. The projects which are helpful for institutional requirements are supported by providing manufacturing facility, man power, consumables, travelling allowance etc. Faculties are encouraged to apply for other sources of support if the technology is useful for other relevant agencies. In the past, few projects of faculty which are useful have been provided financial support and few projects have been submitted to university under minor research grant. For few projects, benefiting industries have provided the needful support.

Financial provisions are not made separately but are included in departmental research budget allocated. Since institute has added miscellaneous budget for this expenditure, no separate budget head is allocated.

Year	No. Of faculty	% faculty	Approximate financial support	Nature of support received
2016-17	16	20 %	Rs 1, 99,000	Rs 1, 99,000 approved as seed money
2015-16	5M+3E+5Ch		370000/- +5000/- +2000/- + 8000/- + 70000/- + 1000/- =4.56 lakhs	Equipment Purchase Material Testing support e-support, Provided facility to fabricate experimental setup in workshop List of Setup: 1) Heap flow: 2) Chute Flow: 3) Gravity Driven flow: 4) Hydrodynamic cavitation setup. 5) Multiphase flow reactor 6) Ultrasonic horn and bath 7) Microbial fuel cell setup
2014-15	4+2+4		340024/-	Equipment Purchase Material Testing support e-support

3.2.3 What are the financial provisions made available to support student research projects by institute?

Student research projects are supported on the basis of need. These projects are supported through making available consumables, tools, lab facilities, software, journals, workshop facilities and skilled man power available. Students seeking projects with industry are supported to apply. Institute signs MOUs with such industries to take up the industry requirements.

Financial provisions are not made separately but are included in departmental budget allocated. Financial assistance to the projects is available through provisions made for recurring expenditures allocated to the institute as a whole and/or to the department. At times, capital/non-recurring expenditure is also made whenever specific requirement is made by students. Since institute has not put any upper limit for this expenditure, no separate budget head is allocated. Undergraduate research is mainly through academic project (a mandatory requirement of university) and all expenses related to this are borne

by the institute. As separate budget head does not exist, it is difficult to quantify. Unit cost of education per student is as high as Rs. 1.13 Lakhs and student contributes Rs. 0.86 Lakhs by way of fee. Institute is bearing the cost which includes facilities extended for research as well as other welfare schemes.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavours and challenges faced in organizing interdisciplinary research.

The investigator/researcher identifies the need of expertise required from faculty member of other department. Considering expertise and facilities available, the investigator identifies the resources required for research. The HODs and concerned faculty interact and discuss the requirement. They identify and approach the faculty of different departments. Faculty members are associated with the professional bodies of their area of expertise. They are well informed about recent developments in interdisciplinary areas. They attend conferences and seminars through which they realize the importance of interdisciplinary research. The institute has subscribed to journals of various subjects. This helps the investigator to link their area of expertise and share with other faculty. Students of different disciplines undertake interdisciplinary projects. Students and guides decide the area of project. If project is interdisciplinary in nature, the request is made to the relevant department and faculty for assistance.

Following are the challenges in organising interdisciplinary research

- Finding guide and co-guide
- Knowledge and Reconciling of data
- Conflicting Methodologies and Approaches
- Finding right forum for discussion of problem
- Research facilities
- Getting financial support

Following is the list of interdisciplinary projects carried out:

Name of Interdisciplinary projects	Department involved	Faculty involved
Dual Axis Solar Tracker	Mechanical and Electronics & Telecommunication	Prof. V. M. Swami Prof. S. C. Munghate
Joint road survey from	Civil and Mechanical	Prof. G. D. Parulekar

Kashedi to Chiplun with Traffic Police Department to minimize accident rate during Ganapati Festival due to heavy traffic		Prof. V. M. Swami
Studies in shell and tube heat exchanger	Mechanical department Chemical Department	Prof. Rahul Krishana Prof. S. P. Tekade
Aerodynamic Analysis of aerofoil by using CFD	Mechanical departments Chemical Department	Prof.Dubbawar D. M. Prof.Tekade S. P.
CFD analysis of welded Venturimeter	Mechanical department Chemical Department	Prof.Dubbawar D. M. Prof.Tekade S. P.

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

Institute has shared the list of laboratories and equipments with specifications with students, faculty and others through various platforms. Department publishes the lab time table and manuals for each lab. This helps students to realise the scope of availability of facilities for research/projects. Students have free access to use all the central and departmental facilities. Institute has well established work shop which helps in building products from concept to commercialisation. Institute has journals of various subjects for which faculty and students have free access.

Following is the list of equipments available:

Sr. No .	Name Of The Equipment And Research Facilities Available	Usage Of The Facility By Its Staff And Students
1	Vector Network Analyzer	For Microwave Measurements
2	Universal Programmer	For Microcontroller Projects
3	Matlab	For Signal And Image Processing Projects
4	IBM Rational Rose	To Design The Model For Software Projects.
5	Visual Studio Professional 2010	To Develop Software Projects.
6	SQL Server 2008	
7	Oracal 11 G	
8	Flow Through Fluidized Bed	Lab Work/Project
9	Hydrodynamics Of Packed Bed	Lab Work/Research/Project
10	Bubble Cap Distillation Column	Lab Work/ Project

Sr. No .	Name Of The Equipment And Research Facilities Available	Usage Of The Facility By Its Staff And Students
11	Instrumex Respirable Dust Sampler	Lab Work/Research/Project/Consultancy
12	B.O.D. Incubator	Lab Work/Research/Project/Consultancy
13	Ultrasonic Processor	Lab Work/Research/Project/Consultancy
14	Ansys Fluent Software	Lab Work/Research/Project/Consultancy
15	Aspen Software	Lab Work/Research/Project/Consultancy
16	Auto Titrator	Lab Work/Research/Project/Consultancy
17	Eclipse	Lab Work/Research
18	Wamp Server & Xamp Server	To Develop Client-Server Web Application
19	Universal Testing Machine	Lab Work/Research/Project/Consultancy
20	Compression Testing Machine	Lab Work/Research/Project/Consultancy
21	Tri Axial Shear Test	Lab Work/Research/Project/Consultancy
22	Los Angelis Abrasion Test	Lab Work/Research/Project/Consultancy
23	STAAD-PRO Software	Lab Work/Research/Project
24	Ball Miller	Lab Work/Research/Project
25	Agad-Mortar	Lab Work/Research/Project
26	Tds Meter	Lab Work/Research/Project
27	Computerized Diesel Engine Test Rig	To Analyse The Performance Of The Engine.
28	Fatigue Testing Machine	To Check The Fatigue Strength Of The Material
29	Solar Refrigeration Test Rig	Research On Solar Energy
30	Diffusion Pumping System	Research On Leakage Detection
31	Hydrogen Storage Test Rig	Research On Hydrogen Storage
32	Digital Storage Oscilloscope 4-Channel	Electronics Signal Checking
33	Analyzer 051022	To Observe Am Bandwidth
34	Spectrum Analyzer	To Observe Various Frequency Characteristics
35	Klystron Based Microwave Trainer	Observing Characteristics Of Microwave Communication

Sr. No .	Name Of The Equipment And Research Facilities Available	Usage Of The Facility By Its Staff And Students
36	Gunn Diode Based Microwave Trainer	Observing Characteristics Of Microwave Communication
37	Micro Wind (S/W)	Vlsi Design
38	Proteus Vsm (S/W)	Microprocessor Projects

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

Institute has received financial support from university and other funding agencies. Details of the supports received are tabulated.

Sr.No	Particulars	Funds Received	Funding agency
1	Novel methods for Hydrogen Storage (Project Number: 387)	Rs.35000 in Academic year 2015 - 16	University of Mumbai
2	Study of size Effect of Wood Beam on Flexural Strength of Wood Reinforced Steel Tube (Project Number: 331)	Rs. 15,000/-	University of Mumbai
3	Shearing strength of adhesive in wood-steel composites (Project Number: 364)	Rs. 40,000/-	University of Mumbai
4	Design of HEMT Oscillator in X band used for satellite communication	Rs. 50000/-	University of Mumbai
5	Heat Transfer Enhancement for laminar Flow in double pipe heat exchanger using varying twisted tape	Rs. 40,000/-	University of Mumbai
6	FPGA implementation of 3D DOA estimation algorithm	25000/-	University of Mumbai
7	Study of Routing in WLAN for performance improvement	35000/-	University of Mumbai

Sr.No	Particulars	Funds Received	Funding agency
8	Design and Implementation of Micro strip patch antenna using PMC	25000/-	University of Mumbai
9	Exploration of Oxianionic Fe-Based Cathode Materials For Secondary Batteries	25000/-	University of Mumbai

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

Following are the supports provided to faculty in securing research fund:

- Sharing the opportunities of research by funding agencies with faculty
- Providing assistance to prepare proposal and submit it in time using institutional support
- Providing the facilities available such as internet, journals, laboratory facility
- Providing Assistance in procurement of material through stores and settlement of accounts through account department
- Providing travel and leave assistance

Nature of the Project	Duration Year From – To	Title of the project	Name of the funding agency	Total Grant Sanctioned	Total Grant Received	Total grant received till date
Major project	-	-	-	-	-	-
Minor project	2015-16	Novel methods for Hydrogen Storage (Project Number: 387)	University of Mumbai	Rs. 35000/-	Rs. 35000/-	Rs. 35000/-
	2012-13	Study of size Effect of Wood	University of Mumbai	Rs. 15,000/-	Rs. 15,000/-	Rs. 15,000/-

		Beam on Flexural Strength of Wood Reinforced Steel Tube (Project Number: 331)	i			
	2014-15	Shearing strength of adhesive in wood-steel composites (Project Number: 364)	University of Mumbai	Rs. 40,000/-	Rs. 40,000/-	Rs. 40,000/-
	2014-15	Heat Transfer Enhancement for laminar Flow in double pipe heat exchanger using varying twisted tape	University of Mumbai	Rs. 40000/-	Rs. 40000/-	Rs. 40000/-
	2015-16	Design of HEMT Oscillator in X band used for Satellite Communication	University of Mumbai	Rs. 50000/-	Rs. 40000/-	Rs. 40000/-
	2016-17	FPGA implementation of 3D DOA estimation algorithm	University of Mumbai	25000/-	-	-

	2016-17	Study of Routing in WLAN for performance improvement	University of Mumbai	35000/-	-	-
	2016-17	Design and Implementation of Micro strip patch antenna using PMC	University of Mumbai	25000/-	-	-
	2016-17	Exploration of Oxianionic Fe-Based Cathode Materials For Secondary Batteries	University of Mumbai	25000/-	-	-
Interdisciplinary project	-	-	-	-	-	-
Industry sponsored	2015-16	Finding the stability constants for the metal chelate complex	Excel Industries Ltd, Lote	Rs. 396000/-	0	0
	2015-16	Stability of fluidized bed	GCL, lote	NA	NA	NA
Students' research	-	-	-	-	-	-
Any other specify	-	-	-	-	-	

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

Following are the research facility available for students and faculty within the campus:

- Availability of Wi Fi network throughout the Campus.
- Computing facilities are made available beyond working hours.
- Institute has established labs with equipments needed for research.
- Institute has central library and digital library facility. The library has large collection of titles and adequate volumes.
- Institute has subscribed National and International journals which are freely accessible.

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

Following are the strategies and policies adopted by the institute to create and upgrade infrastructural facility:

- Institute supports the purchase of new equipment required for research in specialized area.
- Institute extends the laboratory and computing facilities for research.
- Institute provides finance for consumables required to carry on research.
- Institute is upgrading continuously its internet facility.
- Every faculty is provided with computer system with all necessary accessories.
- Faculty has free access to e-journals subscribed by the institute.
- Library is free to purchase books recommended by faculty members.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If ‘yes’, what are the instruments/facilities created during the last four years.

Institute has received funds for creating research facilities as shown in table:

Title of proposal	Funding agency and fund received	Year	Facility developed
Computational fluid dynamics Lab.	GCL, Rs.6440514/-	2012-13	ANSYS academic research CFD version 14.0, HPC cluster head node 01 and compute node 04
Analytical Lab.	GCL, Rs.475000/- (Approx)	2012-13	Gas Chromatography,
	GCL, Rs.799000/- (Approx)	2012-13	High Pressure Liquid Chromatography

3.3.4 What are the research facilities made available to the students and research scholars outside the campus/other research laboratories?

Faculty and students are supported to work on research with outside agencies. They are provided with infrastructural and financial support to carry out research/ project work through accommodation, travel benefit, charges for testing etc. at sister concerns of the institute situated at Dombiwali, Bandra, Ankaleshwar and Lote. Faculty members and students are also encouraged to take industrial research/projects. Following are the beneficiaries of such facilities:

Sr. No.	Name of faculty/students	Type of support	Institute/Industry
1	Prof. Stapute M.	Sample testing, accommodation, Experimentation	GCL, Dombiwali, RD national College, Bandra
2	Dr. Pankaj Patil	Travel assistance, Testing facility	Excel industries
3	Prof. S. P. Tekade	Lab facility	NIT Warangal
4	Mr. Mitesh Bhanushali, Mr. Sandesh More	Lab facility	IIT Bombay
5	Prof. G. D. Parulekar,	Sample	H & D Industries,

	Waker Solkar, Somanath Waghamare, Sakharkar.	preparation and casting, Moulds availability	Pioneer Bricks Company. Rantagiri MIDC
6	Prof. G.D.Parulekar, Prasad Shinde, Balkishan wede, Kiran Rane	Samples for project testing	SPAK SURFACTANTS Pvt.Ltd.Mumbai

3.3.5 Provide details on the library/information resource centre or any other facilities available specifically for the researchers?

Institute library has good recourse facilities to support research activities. The particulars of which are shown in table:

Particulars	Quantity
No of print Journals	42
Magazines	22
No of E-Journals	444
Digital Library	Facility with 15 PCs

3.3.6 What are the collaborative research facilities developed/created by the research institutes in the Institute. For ex. Laboratories, library, instruments, computers, new technology etc.

- Institute is recognized by IIT Bombay and IIT Khragpur as a Remote Centre for NMEICT.
- Institute has collaboration with industries and has signed MOU for sharing facilities. Please refer 3.7.2 for details.
- Institute is supported by Gharda Chemicals limited to establish research facilities for computational fluid dynamics.
- Recently Gharda Scientific Research Foundation has started its activities on our campus in collaboration with the institute.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

- **Patents obtained and filed (process and product).**
- **Original research contributing to product improvement**
- **Research studies or surveys benefiting the community or improving the services.**
- **Research inputs contributing to new initiatives and social development**

The research achievements of the faculty and students are enlisted in the following table:

Sr. No.	Name of faculty/students	Highlights of the research achievement
1	Prof. P.V Oak	Automatic indication of brain cancer severeness and identification of tumour
2	Prof. B. A. Danawade	Prof. B. A. Danawade is selected as member of reviewer board in Construction and Building Material, Elsevier
3	Prof. P. M. Patil	Prof. P. M. Patil is selected as member of editorial/ advisory/ reviewer board in International Journal of Latest Research in Engineering and Technology (ISSN:2454-5031)& International Journal of Research-Granthalaya- (ISSN- 2350-0530)
4	Prof. B. A. Danawade	Research paper “Study of Effect of Tolerance on Flexural Strength of Wood Reinforced Steel Tube” Selected as a white paper/ course material by <i>IDC Technologies, USA.</i>

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If ‘yes’, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

Institute publishes the details of activities carried out in the form of book of abstracts and proceedings. Recently a book is published with **ISBN No.978-93-83303-61-8** titled **“National Conference On Recent Advances In Engineering And Technology”** Institute is planning to partner or start the journal in the area of advances in applied and engineering sciences.

3.4.3 Give details of publications by the faculty and students:

- * **Publication per faculty**
- * **Number of papers published by faculty and students in peer reviewed journals (national / international)**
- * **Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
- * **Monographs**
- * **Chapter in Books**
- * **Books Edited**
- * **Books with ISBN/ISSN numbers with details of publishers**
- * **Citation Index**
- * **SNIP**
- * **SJR**
- * **Impact factor**
- * **h-index**

The publication details in terms of quantity and quality is presented in following tables:

Sr. No.	Name of faculty	Presented in IC	Presented in NC	Published in IJ	Published in NJ	Total
1	O.A. Jarali	1				1
2	B.A.Danawade			7		7
3	A.C.Gangal			1		1
4	V.R.Khalkar			6		6
5	S.S.Gajmal			1		1
6	D.M.Dubbawar			3		3
7	P.M.Patil		1	7		8
8	P.N.Jadhav			3		3
9	R.R.Kalamkar	2				2

10	J.Y.Acharya			2		2
11	B.K.Kumbhar			1		1
12	S.B.Gawas			1		1
13	Rahul Krishna			1		1
14	K.G.Nikam			1		1
15	P.P.Pawaskar			4		4
16	V. K. Patil				1	1
17	A.D.Bhosale	2				2
18	N H Koppa	2		2		4
19	G.D.Parulekar	1		3	9	13
20	V.S.Jadhav		1		1	2
21	V.D.kamble	1	1	2		4
22	M. D. Ghadge		1	1		2
23	Prof.Khedekar S.R.	1		4		5
24	Prof. Mrs.Kolge V.S.	1		1		2
25	Prof. Mohite M.A.		3	2		5
26	Prof.Latkar S. D.	2	1	1		4
27	Prof. Rane K.P.			1		1
28	Prof. Oak P.V.		2	2		4
29	Prof.Tathare S.S.	2	1	1		4
30	Prof.Munghate S.C.			1		1
31	Prof.Muchande S.K.	1				1
32	Prof.Pandharkame S.N.			1		1
33	Prof. V. T. Kamble			2		2
34	Dr.P.N. Patil		2	5	1	8
35	Dr.S.H. Gharat	3				3
36	Prof. N. D. Galande		1	1		2
37	Prof. R. G. Nalwala		3		2	5
38	Prof. S.P Tekade		2	1		3
39	Prof. S.D. Ayare		1		1	2
40	Prof. J. V. Mapara		1		1	2
41	Prof. S. M. Teli		1			1
42	Prof. GarKal D. J.			1	2	3
43	Prof. B.S.		1			1

	Godbole					
44	Prof. S.G. Patne		1			1
45	Prof. R.K.Jadhav		1			1
46	Prof. Mane S S	3	4	3		10
47	Prof.Kolekar N.A.		1	3		4
48	Prof Patil S G			3		3
49	Prof.Satpute M S		1	1		2
50	Prof Mhetre P S	1	1			2
51	Prof.Potdar B S		3		1	4
52	Prof. A.K. Mangore		2			2
53	Prof. J.G. Borade		3	2		5
54	Prof. M.A. Khandake			4		4
55	Prof.D.N. Londhe		1	2		3
56	Prof. V.M.Nair		1	1		2
57	Prof. R.B.Pawar		4	1		5
58	Prof. K.M.Gajmal		0	2		2
59	Prof. M.R. Balpande	2	0	1		3
60	Prof. D.G. Modani	1	1	4		6
61	Prof. P.P.Patil		1	1		2
62	Prof.V. N. Rane		1	2		3
63	Prof. A.A. Bhosale			3		3
64	Prof. P.R. Kalokhe		2	2		4
Total		24	50	105	17	201

Sr. No.	Author/s	Name of Journal	Impact factor
1	Prof. B.A. Danawade	Steel and composite structures 19(3)	1.796
2	Prof. K.G.Nikam	Internal Journal of Research in Advent Technology Vol.4, No.4, 2321-9637	2.865
3	Prof. D.M.Dubbawar	International Journal of Scientific Review and Research in Engineering and Technology Vol.1(4)	2.134
4	Prof. P.M.Patil	International Journal for Research in Applied Science & Engineering Technology Vol.3, Issue XI	5.969

5	Prof. P.M.Patil	International Research Journal of Engineering & Technology Vol.3, Issue 4	4.45
6	Prof. P.M.Patil	International Research Journal of Engineering & Technology, vol.3, Issue 4	4.45
7	Prof. V.R.Khalkar, Prof. P.N. Jadhav, Prof. B.K. Kunbhar	International Journal of Engineering Sciences & Research Technology, Vol.4, Issue 2	4.116
8	B.A.Danawade	SAE International, 2014-01-1053	0.34
9	B.A.Danawade	International Journal of Engineering and Technology, Vol 5, No 6	0.847
10	A.C.Gangal	Materials Research Express 1 (2014) 015501	0.968
11	S.S.Gajmal	International Journal of Latest Technology in Engineering, Management and Applied Science Vol.IV, Issue II	2.115
12	Ms. P.P.Pawaskar, Prof. P.M. Patil	International Research Journal of Engineering & Technology	4.45
13	Prof. P.M.Patil	International Journal of Science and Research, Vol.3, Issue 6	3.358
14	Prof. J.Y.Acharya	International Journal of Innovations in Engineering Research and Technology, Vol.1, Issue 1	3.535
15	Prof. S.B.Gawas, Prof. P.M.Patil	International Journal of Engineering Sciences & Research Technology, Vol.3, Issue 8	1.852
16	J.Y.Acharya	International Journal of Innovations in Engineering Research and Technology, Vol.1, Issue 1	3.535
17	P.M.Patil	International Journal of Modern Engineering Research, Vol.4, Issue 11	1.227
18	P.M.Patil	International Journal of Scientific and Engineering Research, Vol 6, Issue 2	3.8
19	P.N.Jadhav	International Journal of Enhanced Research in Science Technology & Engineering, Vol.3, Issue 9	2.371
20	P.P.Pawaskar	International Journal of Enhanced Research in Science Technology & Engineering, Vol.3, Issue 8	2.371
21	D.M.Dubbawar	International Journal of Innovations	3.535

		in Engineering Research and Technology, Vol.2, Issue 1	
22	B.A.Danawade	SAE International, 2013-01-1179	0.34
23	Rahul Krishna	International Journal of Research in Aeronautical and Mechanical Engineering, Vol 1, Issue 7	2.017
24	J.Y.Acharya	International Journal of Innovations in Engineering Research and Technology, Vol.1, Issue 1	3.535
25	Prof. B.A. Danawade	International journal of Engineering and Innovative Technology, 2(1)	0.574
26	P.N.Jadhav	International Journal of Latest Trends in Engineering and Technology, Vol 3, Issue 1	4.49
27	A.C.Gangal	International Journal of Management, Information Technology and Engineering Vol.1, Issue 3, 167-180	0.69
28	V.D.Kamble	International Journal of Engineering Research & Technology (IJERT)	1.76
29	V.D.Kamble	(IJAFRSE)International Journal of Advance Foundation and Research in Science and Engineering	1.036
30	Ghadge M.D.	International Journal of Engineering Research & Technology (IJERT)	1.76
31	N.H.Koppa	Asian civil engg. Journals	3.8
32	G.D.Parulekar	International Organization of Scientific Research	1.2
33	G.D.Parulekar	International Organization of Scientific Research	1.2
34	G.D.Parulekar	International Organization of Scientific Research	1.2
35	Prof. Sachin D. Latkar	International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC),	5.837
36	Prof. V. S. Kolge	International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC)	5.837
37	Prof. Pandharkame S. N.	International journal of informative & futuristic research (IJIFR)	3.059
38	Prof. Mohite M.A	International journal of informative & futuristic research (IJIFR)	3.059
39	Prof. Mohite M.A	International journal of Engineering & Computer.	4.3098
40	Prof. Mohite M.A	International journal of Engineering	4.3098

		& Computer.	
41	Prof. Munghate .S.C	International journal of informative & futuristic research (IJIFR)	3.059
42	Prof. Khedekar S.R.	International Journal of Control Theory and Applications (IJCTA)	0.53
43	Dr. P. N. Patil , P. R. Gogate, L. Csoka, A. Dregelyi-Kiss, M. Horvath	Ultrasonics Sonochemistry, 30, 79–86, 2016.	4.556
44	P. R. Gogate and Dr. P. N. Patil	Topics in current Chemistry, Accepted for publication, 2016.	4.014
45	Prof. S.P.Tekade , Prof. S. D. Ayare	International journal of research in engineering and technology (IJRET) ISSN 2321-7308 vol. 4 issue 4, April 2015	2.375
46	K. Nandiwale and Prof. N.D.Galande	RSC Advances , (ROYAL SOCIETY OF CHEMISTRY),2015 ;5,17109	5.267
47	Prof. J.V. Mapara	International Journal of Science, Environment and Technology, Vol.04, No. 1, Feb 2015.	5.52
48	Prof. R. G. Nalwala , P. Rana, D. Shukla	International journal of engineering research and technology(IJERT) ISSN 2278-0181 vol. 3 issue 5, Page 1205-1211, May 2014	1.22
49	Prof. R. G. Nalwala , V. V. Hemmady, L. S. Tiwari, S. G. Singhal	International Journal of Engineering Research and Technology(IJERT) ISSN 2278-0181 vol. 3 Issue 5, Page 1352-1355, May 2014	1.22
50	Prof. D. J. Garkal and Prof. R. K. Jadhao	International Journal of Current Research in Chemistry and pharmaceutical sciences Vol.1 Issue:6 2014 Pages 71-76	5.74
51	Prof. Mane S S	Research Scholar: An International Referred e-Journal of Literary Explorations	0.998
52	Prof. Mane S S	Research Journal of English Language and Literature (RJELAL) ISSN: 2321-3108	5.002
53	Ms. Patil S G	English for Specific Purpose World ISSN 1682-3257	3.891
54	Prof. Kolekar N.A.	Research Scholar: An International Referred e-Journal of Literary Explorations ISSN: 2320-6101	0.998

55	Prof.Kolekar N.A.	Research Chronicler: International Multidisciplinary Research Journal ISSN 2347-5021	0.909
56	Prof.Kolekar N.A.	Daath Voyage: An International Journal of Interdisciplinary Studies in English ISSN 2455-7544	1.941
57	Prof.Satpute M S	International Journal of Chemical & Pharmaceutical Analysis ISSN: 2348-0726,	5.949
58	Prof. M.A. Khandke & Prof. A.N.Mangore	Computer Science And Engineering	0.656
59	Prof. M.A. Khandke	Computer Science And Engineering	0.656
60	Prof. D. N. Londhe	International Journal of engineering Research and technology. IJERT	1.76
61	Prof. M.A. Khandke & Prof. R.B. Pawar	International Journal of Engineering Research & Technology (IJERT)	1.76
62	Prof. M.A. Khandke	International Journal Of Informative And Futuristic Research. Ijifr	0.546
63	Prof. M.A. Khandke & Prof. R.B. Pawar	International Journal Advanced Research In Computer Science And Software Engineering (IJARCSSE)	2.5
64	Prof. J.G. Borade	International Journal of advanced research in computer science and software engineering (IJARCSSE)	2.5
65	Prof. P.R. Kalokhe	International Journal of “Latest trends in Engineering”	0.786
66	Prof. P.R. Kalokhe	International Journal Of Informative & Futuristic Research (IJIFR)	0.546
67	Prof. V.M. Nair	International Journal of Application or Innovation in Engineering & Management (IJAIEM)	2.37
68	Prof. D. N. Londhe	Research Advances In engineering and Technology	1.56
69	Prof. D. G. Modani	International Journal Of computer engineering and technology IJCET	0.654
70	Prof. D. G. Modani	International Journal Of engineering research and technology IJERT	0.454
71	Prof. D. G. Modani	International Journal Of innovations in engineering and	0.672

		Technology. IJET	
72	Prof. A.A. Bhosale	International Journal of “innovations in Engineering & Technology(IJET)”	0.672
73	Prof. A.A. Bhosale	International Journal of “Latest Trends in Engineering and Technology (IJLTET)”	0.672
74	Prof. R.B. Pawar	International Journal of Science and Research (IJSR)	0.765
75	Prof. V.M. Nair	International Journal of Informative & Futuristic Research (IJIFR)	0.546
76	Prof. M.R. Balpande	International Journal Of Advancement in Technology	0.31
77	Prof. D. G. Modani	International Journal Of Computer Applications IJCA	0.675
78	Prof. D.A. Barhate	International Journal Of Informative & Futuristic Research (IJIFR)	0.546
79	Prof V.N Rane	International Journal Of Computer, Information Technology and bioinformatics(IJCITB)	1.5
80	Prof V.N Rane	International Journal On Recent And Innovation Trends In Computing And Communication	0.564
81	Prof. A.A. Bhosale	International Journal of Emerging Trends in Science and Technology	0.345
82	Prof. K.M. Gajmal, Prof. R.B. Pawar , Prof. P.R. Kalokhe , Prof. A.A. Bhosale	International Journal of Informative & Futuristic Research (IJIFR)	0.546
83	Prof. P.R. Kalokhe	International Journal On Recent And Innovation Trends In Computing And Communication	0.564
84	Prof. D.A. Barhate	International Journal of Engineering Research and Generic Science (IJEGRGS)	0.546
85	Prof. S. R. Khedekar	International conference on signal processing, communication and embedded system	

The above journals are indexed and details of which can be obtained through <https://scholar.google.co.in/>. The research gate score of the institute is 23.82 (<https://www.researchgate.net/institution/GIT>)

3.4.4 Provide details (if any) of Research awards received by the faculty

The research awards/achievements of faculty are tabulated as follows:

Name of faculty	Details of faculty achievement	Year
Prof. R. R. Kalamkar	2 nd prize in national conference held at LTCOE, Navi Mumbai in January 2013	2013-14
Prof. B. A. Danawade	Reviewer : Construction and Building Material (Elsevier Journal)	2015-16
Dr. P. N. Patil	Outstanding Young Chemical Engineer/ M P CHARY award (outstanding young Chemical Engineer below 35 years of age) Awarded by IChE at IIT Guwahati, 27 th December 2015	2015-16
Dr. P. N. Patil	"Best Paper presentation Award" (in working professional category) at Outstanding Young Chemical Engineers event organized by IChE, DattaMeghe College of Engineering Airoli	2015-16
Prof. N. D. Galande & Prof. J. V. Mapara	2 nd Prize in paper presentation in CHEMIX'16 held at VNIT Nagpur 02-03 rd April-2016.	2015-16

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute industry interface?

Following are the systems and strategies of establishing relation with industry:

- Industrial visits for students and faculty are arranged by the departments.
- Industrial training to students during vacation period.
- Deputing students and faculty for exhibitions.
- Arranging exhibitions at campus.
- Training and placement activities.
- Inviting industry experts for lectures, projects and evolution.
- Inviting sponsorships and participations for technical festivals.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

Staff Members of the GIT are encouraged to undertake GIT Supported Consultancy and other similar work provided it does not conflict with the interests of the GIT. This is because consultancy:

1. Increases the professional and/or academic competence and experience of the Staff Member and provides a continuing professional education opportunity in the world outside academia and research;
2. Creates and enhances links between the GIT and external organisations that will aid the GIT in areas such as increasing research opportunities, and student recruitment and placement, and helps the GIT to achieve its mission and vision.
3. May generate additional income for the Staff Member and increased funding for the GIT.

This Policy applies to all academic and academic related Staff Members and administrative Staff Members of GIT.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy service?

Institute identifies and encourages the staff to utilize their skills and expertise to generate income for institute and self. The sharing of expertise on consultancy service results into enrichment of knowledge and enlargement of expertise. Institute has a policy of revenue sharing on consultancy activities.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

Following are the areas of consultancy:

- Material testing
- Fabrications
- Training
- Industrial projects
- Antenna testing
- Software development

Year	Consultancy detail	Funding agency (client)	Amount received (Rs.)
2013-14	Ultrasonic Testing of welding Sample.	Gannon Dunkerley & Co. Ltd.	2000.00
2013-14	Website www.ghardaplastics.com	Gharda Chemicals Ltd. Mumbai	25,000.00
2013-14	Web Application	Lote Parshuram Industrial	25,000.00

	www.lpia.co.in	Association, Lote	
2013-14	Software maintenance	Gharda Chemicals Ltd., Lote	8,340.00
2013-14	Website maintenance	Gharda Chemicals Ltd. Mumbai	6,224.00
2013-14	Knowledge bank Application	Gharda Chemicals Ltd., Lote	54,000.00
2012-13	Concrete Technology, Soil & Transportation Engineering	Afita Construction Pvt. Ltd., USV Industries, Amruta construction, Chiplun Mozac tiles, Dewasia construction, Gannon Dunkerely co, Gharda Chemicals Ltd., Contractors, Macro marvel Infra. Corp.	33,550.00
2013-14	Concrete Technology, Soil & Transportation Engineering	Arco Construction Co., APTCON Developers Pvt. Ltd., C.R.D. Projects, Global Infra. Proj. Chiplun, Harshal Metals, M/s Durga Developers, Khed. M/s. Jony Bores & civil	93,215.00
2014-15	Concrete Technology, Soil & Transportation Engineering	R.R. Construction, S. S. Construction, Sai-raj Enterprises, Sansiddha construction, Surfacare Construction, Lote, Tata Projects Ltd. Mumbai, Universal Bricks, Dabil.	59,770.00
2015-16	Concrete Technology, Soil & Transportation Engineering	Niharika construction, Niyati Engineering, Paranjape Scheme, Chiplun, Priyans Enterprises, Progressive Construction	74,640.00
2016-17	Concrete Technology, Soil & Transportation Engineering	Testing of construction material of various construction Agencies.	81,500
2013-14 onwards till date	Vector Network Analyzer (Antenna Testing)	PG students	4,500.00

2015-2016	Study of coal pyrolysis, Stability of fluidised Bed	Gharda Chemical Ltd., Lote	Ongoing
2015-2016	Finding the stability, constants for the metal chelate complex	Excel Industries Ltd., Lote	Ongoing

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

Income from Institute Supported Consultancy is shared between institute and faculty/staff in the following manner:

- 1) Institute receives 30 percent of the gross income as a fee for managing the Consultancy and providing support.
- 2) The remaining 70 percent will be paid to the faculty/Staff Member who is directly involved.

The above ratio is reversed in the case where institute contribution is more. The revenue generated by the institute is put back in the department to enhance consultancy activities.

3.6 EXTENSION ACTIVITIES AND INSTITUTIONAL SOCIAL RESPONSIBILITY (ISR)

3.6.1 How does the institution promote institution-neighbourhood community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

The Institute promotes students' activities which make them responsible citizens. Following are the activities which are conducted every year:

- Blood donation camps
- Swaccha Bharat Abhiyan
- Unnat Bharat/Maharashtra Abhiyan
- Tree Plantation
- Art of living
- Cultural activities
- Tech-Fest (Shodh)
- Sports activities
- NSS activities
- Nature club activities
- Manthan activities
- Helping Police authority to organize traffic control during festive seasons.
- Street play

Institute has a committee to carry out career guidance activity, which conducts career guidance lectures in Jr colleges and Polytechnique colleges in the district of Ratnagiri, Sindhudurga and Raigad.

The year wise activity conducted is given below in the table :

Career Guidance Program

Academica Year:-2016-17				
Sr No	Dist	Taluka	Name Of College	Student Count
1	Ratnagiri	Chiplun	Shirgaon Highschool & Jr College	48
2	Ratnagiri	Chiplun	New English School & Jr College Sati	149
3	Ratnagiri	Chiplun	Ramabai Ambedkar Kanishta Mahavidyalaya Kalanbaste	15
4	Ratnagiri	Chiplun	Dbj College	90
5	Ratnagiri	Chiplun	United English School, Chiplun	91
6	Ratnagiri	Chiplun	Tanajirao Chorage Jr Science College Mandaki	49
7	Ratnagiri	Chiplun	Jr College Of Science Dervan	44
8	Ratnagiri	Khed	Sahjeevan Jr Collage Khed	95
9	Ratnagiri	Khed	New English School & Jr College Khed	24
10	Ratnagiri	Dapoli	Dyandeep College Dapoli	59
11	Ratnagiri	Khed	Rotary Englishmedium School	31

12	Ratnagiri	Khed	Annasaheb Behare Jr College	26
13	Ratnagiri	Khed	Nutan Vidyalaya Lote	11
14	Sindhudurgh	Sindhudurgh	New English School	31
15	Sindhudurgh	Kankavali	Kanvali College Kankavali	149
16	Sindhudurgh	Sindhudurgh	New English School Kasal	88
17	Sindhudurgh	Kanedi	T S Sawant Jr College	89
18	Sindhudurgh	Sindhudurgh	D.T. Jr College	159
19	Ratnagiri	Rajapur	Rajapur Jr Collage	29
20	Ratnagiri	Rajapur	Navjeevan Jr Collage	90
21	Ratnagiri	Pali	Jr Collage Pali	61
22	Ratnagiri	Harche	Dr.Nath Pai Vidyalay & Jr Collage	36
23	Ratnagiri	Lanja	T.P.Shetye Jr Collage Lanja	125
24	Ratnagiri	Satavli	R.S.Berde Mv& Jr Collage	24
25	Ratnagiri	Guhagar	Palshet Jr. College, Guhagar	35
26	Ratnagiri	Guhagar	Abloli High School & Jr. College, Guhagar	30

27	Ratnagiri	Sangmeshwar	Paisa Fund College	89
28	Ratnagiri	Kasaba	New English School & Jr College	40
29	Ratnagiri	Devrukh	G.K.Sapre Jr College	73
			Total	1880
Academica Year:-2015-16				
Sr No	Dist	Taluka	Name Of College	Student Count
1	Ratnagiri	Khed	A B J College Lavel	101
2	Ratnagiri	Khed	M I Hajvani	26
3	Ratnagiri	Khed	S I Secondary Jr College	64
4	Ratnagiri	Chiplun	D B J College	39
5	Ratnagiri	Rajapur	Navjeevan Jr College Rajapur	59
6	Ratnagiri	Mandangad	Dr B A College Of Science	76
7	Ratnagiri	Dapoli	A G High School	34
8	Ratnagiri	Devrukh	G K Sapre Jr College	41
9	Ratnagiri	Poladpur	Vidyamandeer Poladpur	90

10	Ratnagiri	Chiplun	New English School Sati	157
11	Ratnagiri	Rajapur	Rajapur Jr College	45
12	Ratnagiri	Lanja	T P Shetye Jr College Lanja	55
13	Ratnagiri	Khed	Navbharat Jr College	75
14	Ratnagiri	Sangmeshvar	Paisa Fund Jr College	63
15	Ratnagiri	Khed	L T T English Medium School	31
16	Ratnagiri	Dapoli	A G High School Class	38
17	Raigad	Mangaon	S S Nikam	33
18	Ratnagiri	Khed	Nutan Vidyalaya Lote	23
19	Raigad	Mangaon	Mangaon Jr College	91
20	Ratnagiri	Ringne	S M V Jr College	83
21	Ratnagiri	Chiplun	Mata Ramabai Jr College	22
22	Ratnagiri	Chiplun	Shirgaon Jr College	38
23	Ratnagiri	Khed	Dyandeep Jr Collge Khed	68
24	Raigad	Mhasala	A I J Jr College	51

			Total	1403
Academica Year:-2014-15				
Sr No	Dist	Taluka	Name Of College	Student Count
1	Ratnagiri	Chiplun	Shirgaon Jr. College, Shirgaon, Chiplun	91
2	Ratnagiri	Chiplun	Ramabai Ambedkar College, Bahadurshaikh Naka, Chiplun	49
3	Ratnagiri	Khed	Sahajivan Jr. College, Khed	104
4	Ratnagiri	Khed	Ltt Jr. College, Khed	51
5	Ratnagiri	Khed	Ag Highschool, Dapoli	119
6	Ratnagiri	Khed	Si Highschool, Furus	64
7	Ratnagiri	Khed	Nutan Vidyalaya, Lote	37
8	Ratnagiri	Khed	Annasaheb Behere College, Lavel	101
9	Ratnagiri	Chiplun	Kanishtha Mahavidyalaya, Abaloli	38
10	Ratnagiri	Guhagar	Sridev Gopalkrushna College, Guhagar	66
11	Ratnagiri	Guhagar	New English School Patpanahale, Srungartali	32
12	Ratnagiri	Chiplun	Dbj College, Chiplun	125

13	Ratnagiri	Chiplun	United English School, Chiplun	52
14	Ratnagiri	Chiplun	Sati Highschool, Chiplun	133
15	Ratnagiri	Sagmeshvar	New English Highschool, Kasba, Sangmeswar	47
16	Ratnagiri	Devrukh	Kakasaheb Sapre Jr College, Devrukh	97
17	Ratnagiri	Sagmeshvar	Niwasi Madhaymik Vidyalay, Nive Budruk, Sangmeswar	56
18	Ratnagiri	Ratnagiri	Gangan Jr. College, Fatak Highschool, Ratnagiri	44
19	Ratnagiri	Ratnagiri	Md Naik & Am Naik Jr. College, Ratnagiri	45
20	Ratnagiri	Ratnagiri	Murad Umar Mukadam Jr. College, Pawas	26
21	Ratnagiri	Rajapur	Navjeevan Jr. College, Rajapur	86
22	Ratnagiri	Rajapur	Rajapur Composite Highschool, Rajapur	46
23	Ratnagiri	Lanja	Br. Nath Pai Vidyalaya, Harche, Lanja	68
24	Ratnagiri	Ratnagiri	Gogate Jogalekar College, Ratnagiri	209
			Total	1786

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles?

Institution invites the students and enrolls them for various activities listed in 3.6.1. The activities listed are lead by faculty/staff co-ordinator. Faculty co-ordinator is responsible for planning and organizing the activities. The activities are supported by staff and student co-ordinators. There are various committees for which students are also members, who actively participate in the activities. The students are certified for their contribution towards their activities. At the end of the activity faculty co-ordinator prepares and submit the report which includes the contribution and impact of activity.

Year 2016-17				
SN	Date	Program	Details	Venue
1	02/09/2016	Swachhata rally	For awareness of the people regarding Swachhata	Lavel
2	24/09/2016	Blood donation	Donate 80 bags to Jankalyan blood bank, Mahad.	Hostel, GIT
3	28/09/2016	Mandir Swachhata	To clean the Mandir area	Lavel
4	15/10/2016	Plastic free GIT	To clean GIT campus and making it as plastic free	GIT, Lavel
5	15/10/2016	Vachan prerana divas	To celebrate Vachan prerana divas on the occasion of late ex-President Dr Abdul Kalam's birth anniversary.	Library, GIT, Lavel
6	09/11/2016	Hostel Swachhata	To clean the hostel area	Hostel, GIT
7	10/11/2016	Bus stop Swachhata	To clean the bus stop area	Lavel
8	19/01/2017 to 25/01/2017	NSS special camp	7 days NSS special camp	Shindewadi-boraj, khed
Year 2015-16				
1	14/08/15	Tree Plantation	140 no. of trees plant in Lavel, Awareness Rally organised in Lavel	Lavel
2	15/08/2015	Independence Day	Street play	GIT Hostel

		Celebration		
3	10/12/2015	Blood Donation Camp	102 no. of blood bags collected by Janakalyan Blood Bank, Mahad	GIT
4	10/02/2015	Swachata Abhiyan	GIT campus Cleaning & Street play	GIT
5	19/01/16 to 25/01/16	NSS Special Residential camp	Vanarai Bandhara, Lectures, Street plays, Swachata abhiyan, Awareness Programs, Self Defence Training	GIT
6	26/01/2016	Republic Day Celebration	Street Plays & Self Defence Act	GIT
2014-15				
1	15/08/2014	Independence Day Celebration	Street play	GIT
2	25/09/2014	Blood Donation Camp	70 no. of blood bags collected by Janakalyan Blood Bank, Mahad	GIT hostel
3	10/02/2014	Swachata Abhiyan	GIT campus Cleaning & Street play	GIT
4	18/01/15 to 25/01/15	NSS Special Residential camp	Vanarai Bandhara, Lectures, Street plays, Swachata abhiyan, Awareness Programs, Self Defence Training	
5	26/01/2015	Republic Day Celebration	Street Plays & Self Defence Act	GIT
2013-14				
1	15 September 2014	Blood Donation Camp	104 students donated blood	GIT, Boys Hostel
2	18 January to 25 January 2014	NSS Camp	NSS Camp was conducted at Vichalewadi	Vichalewadi
2012-13				
1	14 August 2015	Tree plantation	Conducted at Lavel Grampanchayat	Lavel
2	2 October 2015	GIT Swachata Abhiyan	Organized on the occasion of Mahatma Gandhi Jayanti	College campus
3	12	Blood	Conducted at college	Boys

	October 2015	Donation Camp	campus, 150 student donors and 10 faculty members, were participated	Hostel GIT

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The stakeholder's perception on overall performance about quality of the institution is gathered through various mechanisms. Following are the activities through which overall performance of institute is gauged:

- Parents meetings and their feedback
- Student feedback
- Alumni feedback
- Library feedback
- Exit survey
- Employer feedback
- Visitor's feedback
- Public perception and rating available on websites
- Institute results as compared to results of university and neighbouring colleges

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

Institute is organizing a number of activities which are enlisted and budgetary allocation and expenditure are tabulated as follows:

Year	Activity	Budget	Expenditure
2016-17	Cultural (Synergy)	3.50	In Process
	Sports	3.50	In Process
	NSS	0.50	0.01
	Tech-Fest (Shodh)	3.00	In Process
2015-16	Cultural (Synergy)	3.50	3.14
	Sports	1.50	1.22
	NSS	0.50	0.41
	Tech-Fest (Shodh)	3.50	4.86
2014-15	Cultural (Synergy)	3.50	3.03
	Sports	1.25	0.99
	NSS	0.50	0.35
	Tech-Fest (Shodh)	3.50	2.24
2013-14	Cultural (Synergy)	3.00	2.69
	Sports	1.25	1.05

2012-13	NSS	0.30	0.27
	Tech-Fest (Shodh)	3.00	0.34
	Cultural (Synergy)	3.00	2.96
	Sports	1.00	0.98
	NSS	0.25	0.26
	Tech-Fest (Shodh)	3.00	0.30

Above activities help students to develop planning, organizing, controlling, co-ordinating, co-operating and communication skills. These activities help student to develop leadership qualities which are essentially required once they graduate and start serving the nation. Students also learn to utilize the funds allocated and to manage resources made available.

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

Institution promotes the students, faculty and staff in extension activities such as NSS, Nature club, Tree plantation, Maitri Sangh, Manthan club, Blood donation, Swacch Bharat Abhiyan, Unnat Bharat Abhiyan etc. through financial support to the extent raised by the co-ordinators. Some budgetary allocation is always provided. Time to time participation is encouraged through invitation or appointing the faculty and students on the committees.

3.6.6 Details of the social surveys, research or extension work (if any) undertaken by the Institute to ensure social justice and empower students from under-privileged and vulnerable sections of society.

Institute provides or extends assistance to underprivileged and vulnerable sections of society. The Maitri Sangh is actively involved in organizing activities related to awareness of facilities available through institute, university, state government, central government, private organizations. Institute and its management are known for its social justice and equality. The institute as extended the services of social welfare schemes offered by various agencies to empower students of various sections of society.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

Extension activities conducted by the Institute impart overall learning experience, values and skills. The activities organized complement students' academic learning along with social responsibility, ethics, values, and skills.

They also learn the impact of technological developments on socio-economical aspects. They learn to accommodate constraints imposed by socio-economical aspects on engineering problems. They realize the importance of lifelong learning when they deal with interdisciplinary problems. Following are the values and skills inculcated:

Values	Skills
Ethical	Planning
Moral	Organizing
Environmental	Co-ordinating
Sustainable	Co-operating
Social	Communication
Cultural	Conceptual
Religious	Design
Humanity	Technical
Equality	Human
	Team work
	Leadership
	Hardship

3.6.8 Details of the institution ensure the involvement of the community in its reach out activities and contribute to the community development. Detail on the initiatives of the institution that encourage community participation in its activities

The beneficiaries of the outreach activities are as follows:

- Community and villages around the institute
- Industrial community
- Social Community
- Student community
- Police community
- Health and service community

The activities which have encouraged above communities are

- Check Dams built around
- Projects
- Blood donation
- Water harvesting
- Voluntary service
- Freedom run and art of living

3.6.9 Details of the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

The constructive relationship forged with other institutes/ organizations is shown in the following table:

Collaboration details	Name of institute	Year
Laboratory sharing to conduct experiments	Yashaswi Institute, Chiplun	2014 to Till Date
Pramod Mahajan Kaushalya Vikas V Udhyojakta Abhiyaan (PMKVA)	Maharashtra State Skill Development Society, Mumbai	2016 to Till Date
Laboratory sharing for conducting Online CCC Exams	DOEACC Society, NIELIT, Aurangabad	2009-2016
Website Development & Yearly Updatons	National Association of Blind, NAB Chiplun	2013-16
Website Development & Yearly Updatons	Gharda Library Bandra	2009-16
Website Development & Yearly Updatons	LOTISMA, Chiplun	2013-14
Website Yearly Updatons	Gharda Chemicals Ltd, Lote	2012-16
Survey and analysis of landslide and seepage loss in Konkan region.(Sangmeshwar and lote parshuram)	Lokmudra Pratisthan, Lote	2016
Joint road survey from Kasheree to Chiplun with Traffic Police Department to minimize accident rate during Ganpati Festival due to heavy traffic. (1 & 2 September 2015	Highway traffic authority, Khed	2015
Resource sharing to Conduct Vocational Training Programs	Maharashtra State Skill Development Society, Mumbai	2015-16 onwards till date

College is also offering following government skill development program like “Swargiya Pramodji Mahajan Kaushalya Vikas Yojana” for industry professionals and unemployed youth.

Sr. No.	Course Name	Course Code	Sector
1	Arc & Gas Welder	Fab701	Fabrication
2	Basic Wood Work	Woo101	Wood Work And Furniture
3	Basic Fitting & Measurement	Pla101	Plastic Processing
4	Assistant Plumber	Con705	Construction
5	Mason	Con714	Construction
6	Process Attendant Chemical Plant	Che202	Chemical
7	Instrument Attendant Chemical Plant	Che205	Chemical
8	Computer Hardware Assistant	Ict703	Information And Computer Technology
9	Computer Network Assistant	Ict704	Information And Computer Technology
10	Electrician Domestic	Ele701	Electrical
11	Repair Of Domestic Electronic Appliances	Elc701	Electronics

3.6.10 Details of the awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

“Earn a lot but, Very honestly... live economically... and spend generously and maximally for the community around, especially under privileged one” is in nutshell philosophy practiced by Dr. K.H. Gharda, Founder of the Gharda foundation and Gharda Institute of Technology. Gharda Foundation operates with the principle of “Village Development through Self Development” and firmly believes in participatory approach. Apart from this Dr. Gharda has very humbly helped innumerable institutions in the field of science, technology, medicine, education, vocational training. The **Dr. K.H. Gharda** has been awarded **Padmshree** for his contribution to society as a whole. The Gharda Institute of Technology is marching towards the excellence in engineering education and likely to get rewards for its contribution.

3.7 Collaboration

3.7.1. How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives – Collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

Institute collaborates and interact with institutes, universities, industries and research laboratories for research, projects, consultancy, resource sharing. The purpose of interaction may be for higher studies, joint research, training, upgrading of skills etc.

Name of faculty	Collaborating Organization	Purpose	Benefit
Prof. B.A. Danawade	VTU, Belgum	Higher studies	Up gradation of Qualification and Skills
Dr. S.H. Gharat & Dr. P.N. Patil	Excel Industries, Lote	Consultancy	Joint research
Prof S.R Khedekar	BITS Mesra, Ranchi	Higher studies	Up gradation of Qualification and Skills
Prof.S.D Latkar	Shivaji University, Kolhapur	Higher studies	Up gradation of Qualification and Skills
Prof P.V.Oak	Dr.BATU Lonere	Higher studies	Up gradation of Qualification and Skills
Prof.R.R.Kalmkar	LTCOE, Mumbai	Higher studies	Up gradation of Qualification and Skills
Dr. S.H. Gharat & Dr. P.N. Patil	GCL Lote	Consultancy	Joint research
Dr, A.C. Gangal	GCL, Lote	Student's Project	Joint Research
Dr, A.C. Gangal	Ken Chemicals Pvt. Ltd., lote	Student's Project	Joint Research

3.7.2 Details of the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

Following are the details of MoUs/ collaborative arrangement for the subjects/fields of mutual interest:

Sr. No.	Name of organization	Subject/ field of MOU	Period of MOU from to	Contribution to Institute development
1	YIT Pune	Academic Laboratory Provision	From 19/09/2014	Institute-Institute Interaction
2	Indsur Gears Ltd. Aurangabad	Industrial Visit, In-plant Training	From 28/08/2015	Industrial exposure to students
3	Harilal Natural Wine Pvt. Ltd.	Sponsorship For Project	From 23/07/2015	Student research project
4	Infysec	Cyber Scene Investigation Workshop	2013-14	To become familiar with cyber security
5	ATS Microsoft Academy	Microsoft Certification Courses	2013-14 to 2015-16	Technical skill enhancement to students
6	Logicbits systems pvt ltd	Web Technology and Android Application Development Courses	2013-14 to 2015-16	Curriculum enrichment
7	Codeest software factory	Programming and Technical Support for project	2013-14 to 2015-16	An exposure to advanced programming language
8	Inbitech Solutions	Web Development Courses	2013-14 to 2016-17	Importance of web design and programming skills
9	Yash Systems	Networking Courses	2014-15 to 2015-16	To provide hands on experience on advanced networking tools
10	Third eye	Technical	2014-15 to	Industrial

		Support for project	2016-17	exposure to students
11	Vighaneshwara Developers	Planning, designing, construction activities	Jan. 2013 To Jan.2015	Off field and on field exposure of design stages
12	Mr.Ravindra D.Karandikar	Structural Designing	Jan. 2013 To Jan.2018	To become familiar with design of structures
13	M/S. S.A.Makhubhai Engineers and Contractors	Industrial construction planning and scheduling	2016-17	To become familiar with planning and scheduling of Industrial Construction activities
14	Vighnahrata Developers	Planning, designing, construction activities	Jun. 201 To May.2018	To become familiar with planning and scheduling of Industrial Construction activities
15	Desai and Associate	Architectural designing	2016-2017	To design aspects and local laws of construction
16	Excel Industries Ltd.	Material Testing	2016-17	To become familiar with material testing.
17	Research Approach Bangalore	Microwave Design Softwares Training	1 year(2015-16)	Microwave software support and guidance
18	Shivaks Info Technologies Pvt Ltd	Embedded Systems Training	1 year(2015-16)	Embedded design software for research
19	Webwestin India Pvt Ltd	Software Training	1 year(2015-16)	Training in programming languages
20	Sciencetech Technologies Pvt. Ltd	Industrial Training & Sponsorship of	1 year(2014-15)	Industrial exposure to

		Projects		students
21	Codeest software factory	Industrial Training & Sponsorship of Projects	1 year(2014-15)	Industrial exposure to students
22	Nvistech Technologies Pvt. Ltd.	Industrial Training & Sponsorship of Projects	1 year(2014-15)	Industrial exposure to students
23	Sciencetech Technologies Pvt. Ltd	Industrial Training & Sponsorship of Projects	1 year(2014-15)	Industrial exposure to students
24	Codeest software factory	Industrial Training & Sponsorship of Projects	1 year(2014-15)	Industrial exposure to students
25	Nvistech Technologies Pvt. Ltd.	Industrial Training & Sponsorship of Projects	1 year(2014-15)	Industrial Exposure to students
26	Sciencetech Technologies Pvt. Ltd.	Industrial Training & Sponsorship of Projects	1 year(2013-14)	Industrial exposure to students
27	Codeest software factory	Industrial Training & Sponsorship of Projects	1 year(2013-14)	Industrial exposure to students
28	Nvistech Technologies Pvt. Ltd.	Industrial Training & Sponsorship of Projects	1 year(2013-14)	Industrial exposure to students
29	Gharda Chemical Ltd.,Lote	- Study of coal pyrolysis - Stability of fluidised Bed	17/11/2015 to till date	Joint research work
30	Excel Industries Ltd., Lote	Finding the stability constants for the	09/04/2016 to till date	Contract Research work/Consultancy

		metal chelate complex		
31	Dalvik Apps	Workshop on Android Application Development	2014-15 to till date	Curriculum enrichment
32	Embedded Mastrex	Embedded Systems Training & Sponsorship of Projects	1 year(2016-17)	Curriculum Enrichment
33	Research Approach Bangalore	Microwave Design Softwares Training	1 year(2015-16)	Curriculum Enrichment
34	CMS IT Services Pvt. Ltd.	Training and placement	1 year (2016-17)	Curriculum Enrichment

3.7.3 Give Details (if any) of the industry-institution-community interactions that have contributed to the establishment/creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories/ library/ new technology/ placement services etc.

Following are the details of industry institute interaction that have contributed to creation, up gradation of academic facilities:

Sr. No.	Name of organization	Area of interaction	Particulars
1	GCL	Laboratory facility creation	CFD lab
2	NPTEL	Special courses	For up gradation of knowledge and Skills
3	GCL	Training and placement	For student employment.
4	GCL	Laboratory facility creation	GC, HPLC, Karl Fischer setup

3.7.4 Details of the names of eminent scientists/participants, who contributed to the events, provide details of national and international conferences organized by the Institute during the last four years.

Name of conference	Date	Eminent persons who participated
ISTE Maharashtra Goa annual staff convention	15/11/2013	Mr. U Vidyasagaran (Vice President GCL), Mr. Pratapsingh Desai (President ISTE), Mr. Mahesh Kakade (Chairman, ISTE), Mr. Ranjit K Sawant (Secretary ISTE)
Symposium on " Recent advances in Polymer Technology and its applications"	20/08/2016	Dr. P.D. Trivedi, (Former Director in GCL Limited) Dr. M. A. Shenoy(Former professor ICT, Mumbai) and Mr. Jayant Kamat (Former General Manager IPCL)

Following are the eminent scientists/ participants who have contributed to knowledge sharing:

Sr. No.	Name Eminent person	Contribution by eminent person to the institute.
1	Dr. S. S. Bhagwat (Professor and Head, Chemical Engineering, ICT, Mumbai) 23-24 July 2016	Delivered a talk on "Continue learning" and "Teaching skills in Thermodynamics"
2	Dr. Shantunu Chakraborti (Former Head – Research and Development, Tata Steels) 18-20 March 2016	Departmental mentoring and orientation on research and teaching excellence
3	Dr. Kaushal Prasad (Professor and Head, Mechanical Engineering) 15 th Sept 2015	Resource person for "Computational Fluid Dynamics"
4	Dr. Sanjay Bhandari (Director Solar Works Pvt. Limited, Pune)	Orientation on Solar Energy and Guidance for implementation of research Projects
5	Mr. Chitale Dhananjay (Director, Chaturang Pratishthan)	Teaching Learning Practices

6	Mr. Pratap Desai (President ISTE, New Delhi), 15-16 Nov. 2013	Inauguration of ISTE staff convention 2013
7	Dr Shantanu Chakrabarti (Former Head – Research and Development, Tata Steels)	1. Department mentoring and research orientation 2. As a resource person for orientation programme on “Excellence in Teaching”
8	Dr.Sanjay Bhandari (Director Solar Works Pvt. Limited, Pune)	To orient faculty members on the subject of Solar Energy and to participate in teaching learning.
9	Dr. S. S. Bhagwat (Professor and Head, Chhimical Engineering, ICT, Mumbai)	To share the teaching learning experience and to train faculty how to teach effectively.
10	Dr. Nihal Sukthankar, IIT Mumbai 4-5-2013	Delivered talk on teaching learning process and research
11	Dr. P.S. Gandhi, IIT Mumbai 4/5/2013	Delivered talk on teaching learning process and research
12	Mr. John B Lawrence, Philadelphia USA, 5-6-2013	Delivered lecture on Entrepreneurship and excellence
13	Mr. Bhikoji Idate, Chairman, Savitribai Phule Shikshan Prasarak Mandal, Presently Union Minister, 24-9-2013	Delivered lecture on social upliftment and role of women in technology
14	Mr. Mathew J Ward, Miss Suzi, Mr. Sam Oliver, Monsanto USA, 23-5-2014	Lecture on research scope and role of chemical engineer in agriculture and pesticide industry.
15	Mr. Bobby Horner and Mr. Denise Newman, PBI Gordon USA, 14-1-15	Formulation products for agriculture
16	Mr. Ravi Shroff, CEO , Excel Industries, 19-11-2015	Spoke about role of sustainable development.
17	Dr. Koichi Moriya, AZRO Tokyo, Japan, 21 -5 16	Spoke about role of chemical engineer in agriculture and pesticide industry.
18	Dr. Milind Malshe, IIT Bombay, 17,18-01-215	Spoke about importance of technical communication skills and personality development

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements. List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated –

- a) Curriculum development/enrichment
- b) Internship/On-the-job training
- c) Summer placement
- d) Faculty exchange and professional development.
- e) Research
- f) Consultancy
- g) Extension
- h) Publications
- i) Student Placement

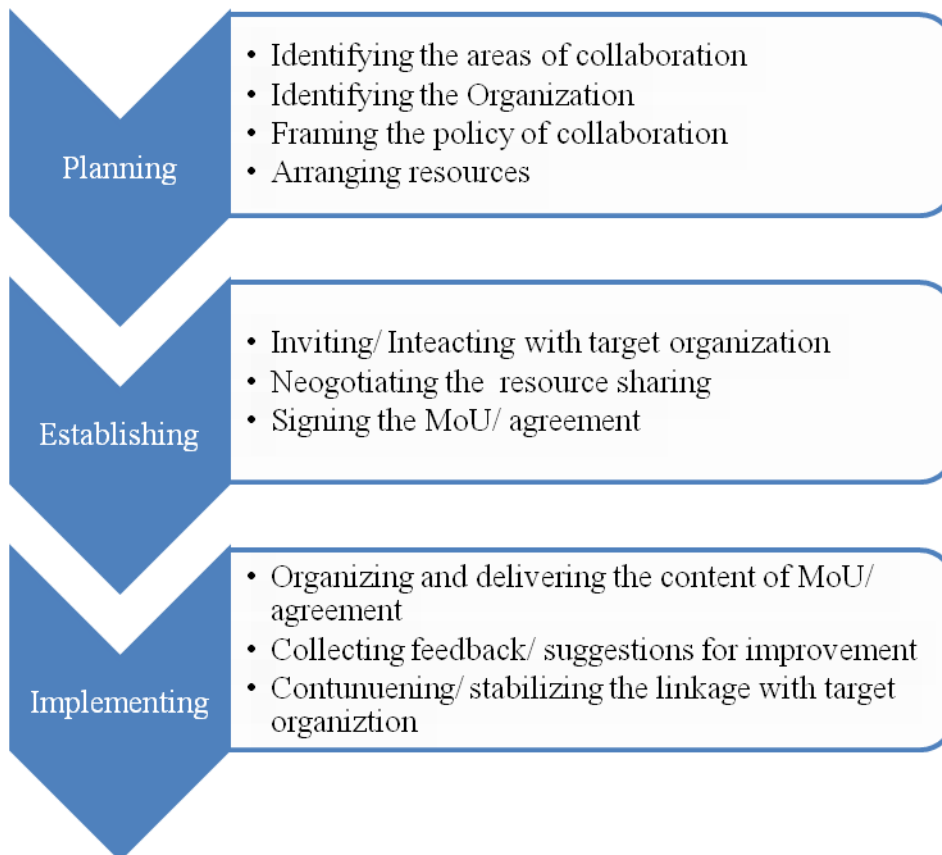
Sr. No.	Area of Agreement/MoUs	Numbers of MoUs/Agreements
1	Curriculum development/enrichment	25
2	Internship/On-the-job training	6
3	Placement	1
4	Research	2
5	Consultancy	3
6	Publications	1
7	Skill Development	6
8	Others (projects, community, professional development etc.)	7

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/collaborations. Any other relevant information regarding Research, Consultancy and Extension which the Institute would like to include.

Institute has established linkages with organizations involved in production, research, service, software development, training and placement. Institute makes all efforts to expand these activities continuously to involve diversified organizations. As a part of systematic efforts, Institute has established relations in the following areas:

- Inviting expertise from various industries for delivering Guest Lectures
- Signing of MoUs with industries for providing exposure of new technologies to faculty and students.
- NPTEL courses
- Skill development programmes

- Consultancy and collaborative research
- Organizing seminar, workshops for students and faculty.



CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

All the physical facilities are as per the AICTE and Mumbai University norms. Adequate numbers of classrooms are available for lectures, seminars and tutorials. The institute has a different facilities like IT resources, ELRC portal, laboratory equipment, library resources, internet connectivity, sports ground, hostels, medical center, stores, canteen, gymnasium, transport for student and staff, CCTV and round the clock security, Bank and ATM on campus.

Not all learning at GIT is confined to the classroom. Besides curricular activities, students are engaged in co-curricular and extracurricular activities. This is normally done by students associations and student chapters. Field trips, co-curricular and extra-curricular activities provide opportunity for students to explore different field of interest, develop leadership skills and learn teamwork. All students participate in a wide-range of activities which currently include publication of Annual Magazine (*GITian*), participation in performing art, participation in programming contest, quiz and paper presentation contests etc. From publishing the news letter to running the student council and other associations, the students are always engaged in developing a dynamic and vibrant culture. They, in the process, learn to work in team.

4.1.2 Detail the facilities available for

a) Curricular and co-curricular activities

- As a part of co-curricular activities, paper presentation contest, quiz contests, project exhibitions and other competitions are organized in the institution and students are encouraged to participate in such events.
- Industrial visits are arranged in every semester for the students to get acquainted with the industrial environment.
- Guest lecturers of entrepreneurs are arranged for the motivation of the students.
- Every year a Technical Fest *SHODH* is conducted which includes technical paper/poster presentation, Quiz, Project Exhibition etc.
- Training programmes are arranged from various professional trainers.

b) Extra –curricular activities

- **Performing arts:** Every year, a cultural programme named *Synergy* is held to encourage students to participate in performing arts. This program is very useful to bring out latent talent of students. Various

events like singing, playing musical instruments, drama, mono-acting, mimicry and dance are arranged.

- **Publication of news letter**

Students publish an Annual Magazine (*GITian*). It focuses on the current happenings in the Institute.

- **Other Activities**

Personality Development and Yoga/Meditation are held to enlighten the students about a spiritual awareness. Such activities are held regularly so as to ensure holistic development.

- **Sports**

- 1) **Sports grounds**

Institute has multiple (in all three) grass grounds (11,617 Sqm), mostly suitable for playing football, cricket and other outdoor games. Ground is protected by boundary wall and surrounded with trees and flowers.

Facility: Football poles, cricket pitch, Kho-Kho poles, watering, volley ball net. Dress-code is provided at the time of tournament.

Events: Annual sports are conducted every year have different sports activities being organized by institute.

- 2) **Outdoor and indoor games facility: -**

Tournaments of Foot Ball, Cricket, Volleyball, Kho-Kho, Kabaddi, Badminton, Table Tennis, Chess and Carrom are conducted.

Institute also has facility of-

Gymnasium (1 for boys and 1 for girls)

Indoor auditorium and Open auditorium.

- **NSS activity**

Students participate in NSS activities every year. Activities include social welfare, plantation of trees, providing basic education to the poor local children, blood donation camp and one week field camp to nearest village. Field camp is meant for making them aware about field level problems and their solutions.

- **Cultural activity**

The institute conducts the cultural activities like Independence day celebration, Republic day celebration, Ganesh festival, Navratri celebration, farewell to final year students, fresher's welcome and cultural festival *Synergy*.

- **Public speaking**

Activities like Leadership skill development, Intra group quiz, Debate and Group discussion are conducted throughout the year.

- **Communication skills development**

The students are provided training on soft skill development by internal and external experts.

- **Health and hygiene**

Water purification facility is available for safe drinking water in the college campus, hostels, staff quarters and guest house. The institute has housekeeping staff for regular cleaning of toilets and common areas in the hostels and in college premises. First-aid facility is available in the institute at every HOD cabin, Laboratory, Entrance Gates, Hostels and canteen; two doctors visit twice in a week and take care of medical problem of students and staff with free of cost. Further, in addition to this Snake bit Anti-Dots are available in college campus at different location whose information is displayed at the notice board.

- **Yoga**

Every year program on yoga is conducted for the benefit of students and faculty. This program is conducted with the help of reputed yoga practitioners. Art of Living courses are conducted in institution for meditation of students as well as staff.

All above activities are conducted in infrastructural facilities or open spaces like grounds etc. Key features are given below:

- These spaces bear a relationship with each other and complement each other in their functioning.
- Academic areas are designed for good ventilation, ample light and acoustics.
- Office space is designed ergonomically.
- Classrooms and Laboratories have more area than the recommended by regulatory agencies.
- Audio systems are installed wherever required.
- Cafeteria is located at convenient location.
- For the uninterrupted academic activity, a stand by 250 KVA / 200 KW. Generator is provided.

Infrastructural Facility for co-curricular, extracurricular activities

Sr. No.	Description	Nos	Area
1	Classrooms	23	2030 sq.m
2	Technology enabled learning spaces	Each Department has one digital/smart classroom and one classroom is equipped with smart board facility. All classrooms have OHP & have	

		Wi-Fi facilities.	
3	Open air Auditorium with seating capacity of 1000	1	500 Sq. m
4	Sports ground	3	11617 sq m
5	Seminar halls including Auditorium having seating capacity of 500	2+1	477 sq.m
6	Tutorial spaces	5	250 sq.m
7	Laboratories	60	3860 sq.m

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

- Infrastructure, at present, is as per the norms of AICTE, affiliated university and State government.
- The Institute is new and started in 2007 with Chemical, Mechanical, computer programmes. At later stage in 2009-10 and 2010-11, Electronics and telecommunication and Civil Engineering are added respectively.
- The Institute had made provisions for future expansion in anticipation of this academic growth.
- Sufficient land area is earmarked for future growth assuming still higher academic growth in future. This can be seen from master plan give below.

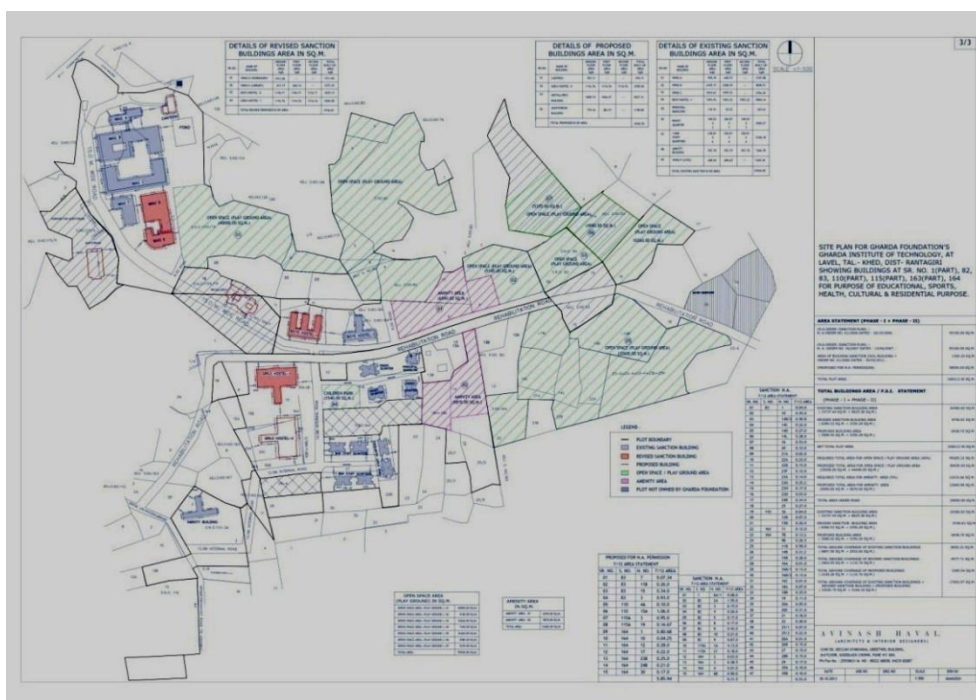


Table No: 4.1.3

SN	Infrastructure	Amount (Rs.)	Remarks
2011-12			
1	Building Civil Dept.	Rs.1,48,09,520	Completed
2	Staff Quarter 1 BHK No.3	Rs.89,10,615	Completed
3	Waste Water Tank	Rs.97,689	Completed
2012- 13			
1	Renovation and modification of	Rs. 3,93,394	Completed
2	Renovation and modification of	Rs 5,17,696	Completed
3	Sweepers Quarters	Rs 10,60,456	Completed
4	Bio Compositing Machine Shed	Rs 1,83,644	Completed
5	Construction of equipment foundation,	Rs 2,20,643	Completed
2013-14			
1	Sewage Water Treatment Plant No.1	Rs 21,35,277	Completed
2014 -15			
1	Sewage Water Treatment Plant No.2 (bio filter plant)	Rs 6,76,580	Under Construction
2	Mezzanine Floor - Workshop	Rs 14,81,116	Under Construction
2015 -16			
1	Mezzanine Floor - Workshop	Rs 28,53,678	Completed

2	Sewage Water Treatment Plant No.2 (bio filter plant)	Rs 8,92,800	Completed
3	Self contained 12 rooms (Guest House)	Rs 70,60,968	Completed
2016-17			
1	Parking shade	Rs 5,35,200	Completed
2	Canteen (Anna's Den)	Rs 15,51,337	Completed
3	Compound Wall	Rs 37,95,230	Under Construction

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

Institute has provided ramps at appropriate entrance locations. Institute has made necessary provisions in washrooms and class rooms. Laboratories have adequate area so that physically challenged students will not find it difficult to move about. At the time of examination additional time is given as per University guideline. Writer for examination is also allowed.

4.1.5 Give details on the residential facility and various provisions available within them:

- **Hostel Facility –**

In campus hostel facility is available. Boys' hostel and Girls' hostel are provided with one recreational hall with TV and one common hall.

Hostel	No. of Hostel	No. of rooms	Student Capacity	Area (sq.m)
Boys	02	171	537	7,910
Girls	01	74	220	3,350

All hostels are equipped with inverter backup; free Wi-Fi, solar water heater, water coolers with mineral water facility, mess, etc. All the rooms in the hostel are furnished with bed, mattresses, pillows, cupboards, chairs, study tables etc. CCTV service is provided in each hostel for safety purpose over and above regular security guards. Separate Wardens are appointed for both the boys' and girls' hostels. In girls hostel Beauty parlour facility is provided.

Along with these facilities, sanitary napkin vending machine is placed in girls' hostel.

- **Recreational facilities**

All hostels are equipped with LCD TV, Gymnasium & common hall. For indoor recreation games carrom board, table tennis, chess, badminton etc. are provided by the Institute. Art of Living courses are conducted in institution for meditation of students as well as staff.

- **Computer facility including access to internet in hostel**

Wi-Fi facility is available in each hostel. All E-resources can be accessed 24X7 in hostel.

- **Facilities for medical emergencies**

Ambulance of “Gharda Medical Advanced Technologies Foundation” and institute vehicle is available to take care in case of medical emergency of students and staff. At the Institute nurse is available on part time basis to take care of student and staff. Snake bite anti-dote is accessible in campus (24 X 7). First- aid medical box is available in each department.

- **Library facility in the hostels**

Study rooms are available in each hostel and books are issued to students to carry. Book bank facility is available

- **Internet and Wi-Fi facility**

Internet 14(2 Lines) Mbps line is available. Institute provides Wi-Fi services in college, canteen, hostel as well as staff quarters with unlimited access.

- **Residential facility for the staff and occupancy and Constant supply of safe drinking water**

Total 5 Staff quarters are provided by the institute. In that total 36 (1-BHK), 11 (2-BHK) and 6 (1RK) flats are available. Principal has separate bungalow in campus. Each building has standby power connection. We have our own water supply scheme. The water purifiers (Aqua-guards) are provided in every flat. Total water storage capacity is (Overhead and underground) 5.75 Lakh litres. Every building is provided with PVC water tank at the terrace.

- **Security**

Four security officers and nineteen security guards are employed. The campus is protected partly by compound wall and partly by barbed wire fencing. Separate security is deployed at the entrance of the hostels and strict timings are adhered to by the inmates for security. Security works for 24 hours in three shifts.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

On campus

Doctors visit twice in a week. They are taking care of medical problem of students and staff free of cost. Institute nurse is available on part time basis. Snake bite anti-dote is accessible in campus (24 X 7). First- aid medical box is available in each department as well as hostels. A state of art, polyclinic is being planned at campus.

Off campus

Medical facility is available at 8 Km away from the institute at “Gharda Medical Advanced Technologies Foundation”. Ambulance and institute vehicle is available to take care in case of medical emergency of students and staff. They provide the service free of cost.

4.1.7 Give details of the Common Facilities available on the campus, Spaces for IQAC, Grievance redressal, women’s development cell, counseling and carrier guidance, placement cell, health centre, canteen, recreational area, auditorium, etc

Details of above mentioned facilities are tabulated below:

Sr. No.	Description	Area (sq.m)	Location	Teacher In-charge
1	May I Help You Desk	8	At the Entrance	Mr.S.S.Joshi
2	Space for Training & placement unit	30	A Wing, First Floor	Prof. S. S Gajmal
3	IQAC	10	C-wing, first floor	Prof. M. A. Khandke
4	Women’s development cell (ICC)	10	C-wing, First floor	Prof. K. M. Gajmal
5	Internal Complaint Committee	10	C-wing, First floor	Prof. V. S. Kolge
6	Grievance Redressal	11	A-wing, ground floor	Prof. T. L. Iltapawar
7	Space for Canteen (Meet & Eat)	258	Main Canteen- Left side at Entrance	Mr. U. V. Nayak
	Space for Canteen (Anna’s Den)	50	Left side at Entrance	Mr. U. V. Nayak
	Space for Canteen (Little Bite)	64	Near to Library	Mr. S.B. Mohite
8.	Space for Bank	55	Near campus canteen	Saraswant Bank
9	Space for ATM	3	Near campus	

Sr. No.	Description	Area (sq.m)	Location	Teacher In-charge
			canteen	
10	Space for Xerox and Printing Section	20	First floor, A wing and C wing	Mr. D. T. Mhadhlekar
12	Space for store section	45	B Wing	Mr. S. Sawant
13	Space for Maintenance of staff quarters and hostel section	10	“Raigad” Boys Hostel	Mrs. S. S. Guhagarkar
14	Space for Health Centre (Gymnasium)	121	Campus complex Hostel	Physical Instructor-Prof. Bole
15	Space for Counselling and Career Guidance	10	E Wing, Central Library	Mr. Sneha Sadvilkar
16	Space for safe drinking water	2.5	At each wing on each floor at prime location	Mr. S. S. Phepade
17	Space for auditorium	120	C Wing, Second Floor	Mr. Vipul Shirgaonkar
18	Space for auditorium (Open Air Theatre)	115	Between Wing B & C	Registrar
19	Space for Seminar Hall	477	At All wings	Respective HOD
20	Space for Washroom	597	At all wings, all floors	Registrar
21	Space for Girls Common room	100	C Wing	Registrar
22	Space for Boys Common room	100	At Canteen	Registrar
23	Space for Parking	98	At entrance, Right side	Registrar
24	Space for Waiting room	11.15	A Wing, Left side	Registrar
25	Central Computer Centre Facility	156	A Wing, Right Side	HOD, Comp
26	Drawing Hall	132	B Wing, First Floor	HOD, Mech
27	Reading Rooms at Library	400	E Wing, Library Building	Mr. B N Patel
28	IT help Desk	11.15	B Wing, Ground Floor	Mr. V. V. Shirgaonkar

4.2. Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

For smooth functioning of library and its activities every year college constitutes Library Committee. The main objective of library committee is to decide and adopt policies for governance of the library, to prepare the annual budget, to adopt rules and regulations of the library. The committee also looks into student's grievances. The committee consists of Principal as Ex-officio chairman, Librarian as Secretary and senior faculty members. Two meetings of Library Committees are organized in a semester.

Sr. No	Name of the Staff	Department	Designation	Mobile No.
1	Dr. Joshi P.S.	General Administration	Principal & Chairperson	9158779250
2	Mr. B.N. Patel	Librarian	Member Secretary	7507031130
3	Prof. V.S.Jadhav	Civil Engineering	Member	8805521021
4	Prof. D. N. Londhe	Computer Engineering	Member	9209231299
5	Prof. V. T. Kamble	EXTC Engineering	Member	8551937575
6	Mr. S.S. Joshi	General Administration	Member	9422391922
7	Mast.Ruturaj Umaranikar	Student Rep. (TE Mech)	Member	9922999810
8	Ms. Priyanka Chakranarayan	Student Rep. (TE EXTC)	Member	8446714417

Functions of library committee

1. To guide the Librarian in formulating general library policies and regulations governing the functions of the library.
2. To work towards modernization and improvement of Library and documentation Services.
3. To formulate policies and procedures for efficient use of Library resources.
4. To review Library readership department wise.
5. To decide on strategies to improve subscription.
6. To prepare budget and proposals for the development of the Library

- 7 To recommend to the authorities the fees and other charges for the use of the Library
- 8 To seek feedback on Library functions from readers
- 9 To submit the annual report on the functioning of the library
- 10 To take measures to increase the membership of the Library beyond the boundaries of the College

4.2.2 Provide details of the following:

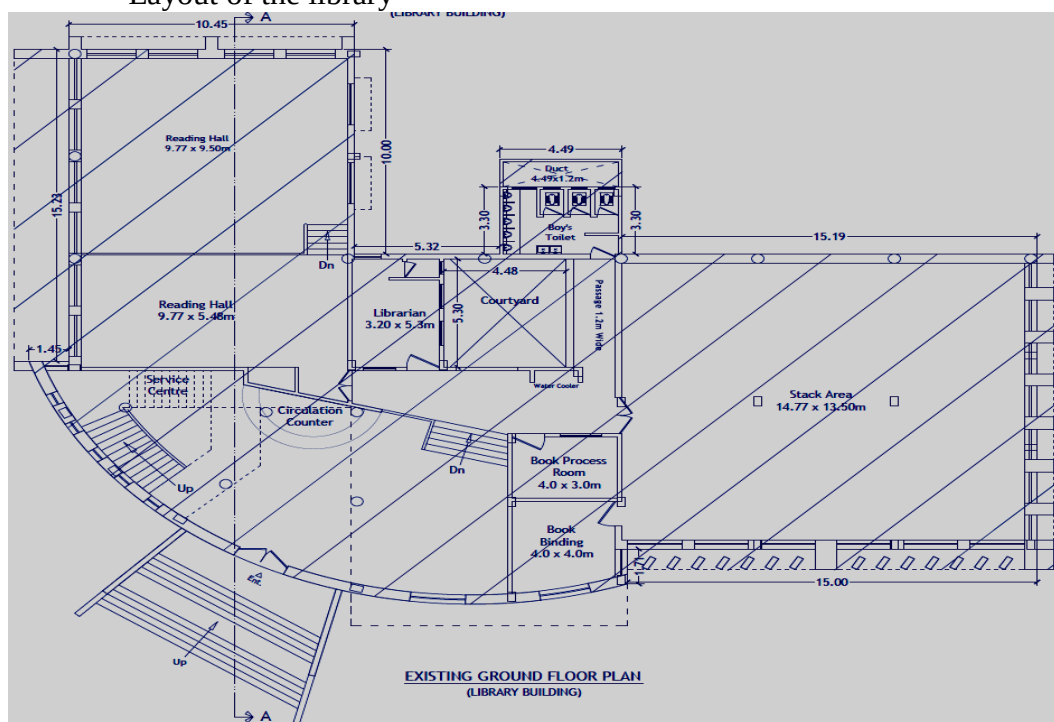
* Total area of the library (in Sq. Mts.): **1105 m²**

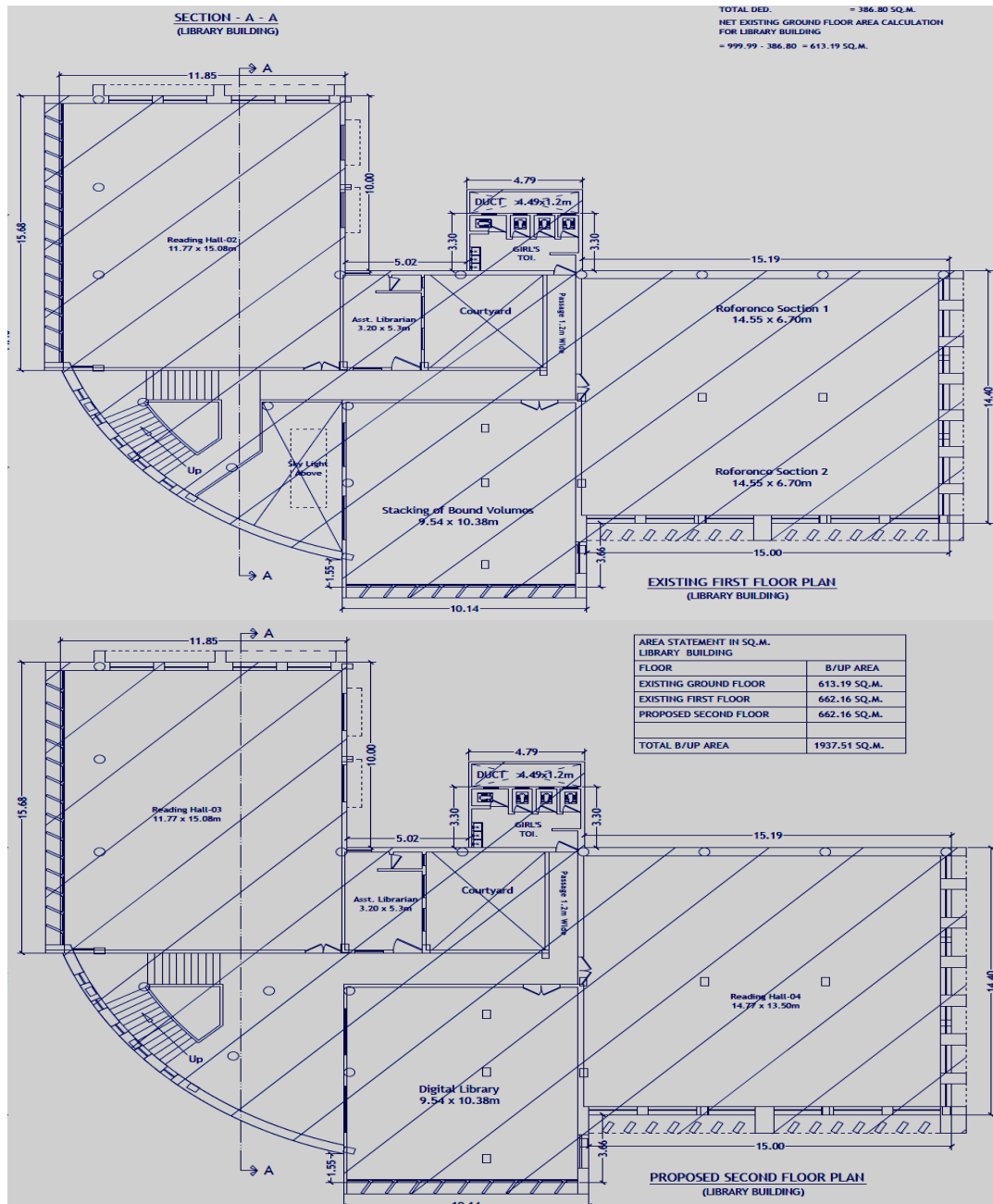
Total seating capacity : **224**

Central Library Timings:

Days	Time
Mon- Sat	08.00 AM to 07.00 PM (Circulation) 08.00 AM to 07.00 PM (Reading Hall)
Sunday & Public Holidays	09.00 AM to 05.00 PM (Circulation) 08.00 AM to 05.00 PM (Reading Hall)
Before and During Examination	08.00AM to 11.00PM (Reading Hall)

* Layout of the library





Library Ground Floor:

- Property Counter
- Book Stack Room
- Circulation Section
- Periodical Section
- Photocopying Facility
- Newspaper Section
- Tea/Coffee vending Machine

- Gents Washroom
- Library First Floor:**
- Study Room 1 & 2
- Digital Library
- Librarian Office
- Ladies Washroom

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

Faculty and students raise demand with librarian for new titles. Depending upon current availability and demand for title librarian takes a decision to purchase the same. Every year library submits the budget taking into account the current stock and demand raised. Books are also purchased by considering Reference books suggested by the university.

Following is the expenditure detail of last four years:-

Library holdings	Year -1 2016-2017		Year -2 2015-2016		Year -3 2014-2015		Year -4 2013-2014		Year -5 2012-2013	
	Quantity	Total Cost in lakhs	Quantity	Total Cost in lakhs	Quantity	Total Cost in lakhs	Quantity	Total Cost in lakhs	Quantity	Total Cost in lakhs
Text books	345	1.42	852	5.14	810	3.39	1077	3.64	1480	4.81
Reference Books										
Journals/Periodicals	69	1.25	55	1.20	45	1.33	39	1.29	41	0.98
e-resources	444	10.5	444	14.75	651	18.47	651	11.87	711	13.22
NPTEL Video	-	-	HD D 4TB +4TB	0.24	-	-	-	-	-	-

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- **OPAC – Online Public Access catalogue**

OPAC is Accessible in GIT Library and Campus using OPAC Access Link: 10.56.56.56/W27

- **Electronic Resource Management package for e-journals**

The GIT Library subscribes to International E-Journals Packages as per the AICTE Approval Process Guidelines. The Following are the E-journals and Packages subscribed by the Library. All the E-journals have IP based subscription access. No login is required for access of e-journals in GIT LAN.

S. N	Name of E-journal Packages	No. of Journals	Subject Area	Year of prescription
1	Elsevier Science Direct	275	Engineering + Computer Science	2012-2017
2	IEEE	169	Computer Engineering, Computer Sciences	2012-2017
3	Springer Mechanical	49	Mechanical Engineering	2012-2015
4	Springer Electronic, Electronics, Computer	149	Electronic, Electronics, Computer	2012-2015
5	McGraw Hill Access Engineering	623 Books	General Engineering & Reference	2012-2015
6	ASCE	35	Civil Engineering	2012-2015
7	ASTM Digital Library	-	Journals, Symposia Papers, Manuals, Terminology Dictionary	2012-2015
8	J-GATE Engineering	-	-	2012-2015

- **Federated searching tools to search articles in multiple databases:**

Library has access to certain federated searching tools.

- **Library Website**

The Library website can be accessed worldwide through this link: <http://git-india.edu.in/library/>. It gives the brief information about the Library, its collections and other facilities.

- **In-house/remote access to e-publications**
All the E-journals are subscribed and are IP Based subscriptions. User can access the e-journals in GIT Local Area Network (LAN).
- **Library automation**
The GIT Central Library is fully automated since 2011 with commercial Library Package *SLIM 21*. All the activities like Book Acquisition, Cataloguing, Issue-Return, Report generation, Statistics are totally automated. Issue and Return of books is fully bar-code based. Books and Borrowers ID Cards have bar codes.
- **Total number of computers for public access**
In Library there are 20 Computers with combination of desktop Computers and Thin Clients
- **Total numbers of printers for public access:**
Printer is available exclusively for library.
- **Internet band width/ speed**
We have two ISP's: 1. BSNL: 10 Mbps
2. Deep Network: 4 Mbps.
- **Institutional Repository**
Institute Repository is available in institute with D-space open source software.
- **Content management system for e-learning-**
Faculty updates e-learning resources of their courses regularly which include notes, presentations, question papers, videos.
- **Participation in Resource sharing networks/consortia (like Infflibnet)**
- No

4.2.5 Provide details on the following items:

Average number of walk-ins	2258/ Month
Average number of books issued/returned	Issue-1218/month, return 1208/Month
Ratio of library books to students enrolled	12:1
Average number of books added during last three years	2368 Books
Average number of login to opac (OPAC)	25
Average number of login to e-resources	25
Average number of e-resources downloaded/printed	10
Number of information literacy trainings organized	04
Details of “weeding out” of books and other materials	00

4.2.6 Give details of the specialized services provided by the library

Manuscripts	NA
Reference	Yes
Reprography	Yes
ILL (Inter Library Loan Service)	Yes
Information deployment and notification (Information Deployment and Notification)	All Notice Boards of Academic departments and Students Hostels., E-Mail
Download	Available through Internet Facility
Printing	Printing Facility Available in Library.
Reading list/ Bibliography compilation	No
In-house/remote access to e-resources	Library Users Can Access Within Campus
User Orientation and awareness	We organize User orientation Programmes
Assistance in searching Databases	Library Team helps students for Searching.
INFLIBNET/IUC facilities	No

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

The ultimate goal of the library is to satisfy the need of student and teacher. It plays important role in teaching and learning process. Following support is provided by library staff:

- Purchase of academic & non academic books.
- Open Access library facility.
- Automated issue -return facility.
- Access to library facility before and after institute timing.
- New arrival display.
- The Library OPAC, open e- journal and NPTEL is accessible in LAN.

Library staff educates students and teachers about book availability for competitive examination like: UPSC, MPSC, PSU, GATE, Banking etc.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

The library stack room is located at ground floor, so that physically challenged person can access the books easily from library. They are issued more number of books at a time. Further, library staff is always ready to help such students.

4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analysed and used for further improvement of the library services?)

The suggestion Box is available in Library. The suggestion box is opened after every 15 days. Positive action is taken on the suggestion received from students and staffs regarding the library facilities.

A feedback form is available with the library. Feedback from users of library is collected and analyzed statistically. The services of library are upgraded and improved based on statistical analysis of these feedback forms.

Feedback form is designed for subjective opinions as well as quantification. Survey through feedback form pertains to library services, books/journals, library timings and e- resources.

Velocity of circulation of individual title is used as feed back to analyse utility of books and the data is used for further purchase decision.

4.3 I T Infrastructure

4.3.1 Give details on the computing facility available (hardware and software) at the Institution.

The IT infrastructure facility is central as well as decentralised in each department and administrative area. Central facility includes internet centre common for all. Each department has separate computing facility and is equipped with application software. Internet, LAN and Wi-Fi are available on all computers in the system. Printers are also on LAN. Most of the application softwares are server based, excepting few which have standalone license. Server based software are encouraged in the system to promote interdisciplinary culture. The Information and communication technology set has following salient features:

1. Institute has a Diesel Generator of 250 KVA backup. Along with this a UPS backup facility of 60 KVA and 20 KVA for all computers and servers.
2. 135 Numbers of CCTV are installed at whole campus.
3. Institute has two Leased lines of 10 mbps and 4 mbps.
4. Institute has 5 No's of telephone lines from BSNL line with Line protection unit/device, out of which a separate Telephone Line is provided to Principal Bungalow. To connect the whole campus through telephone line, an EPABX system with 172 Extensions is installed.

5. Institute has 6 servers which are connected with KVM Switches.
6. Video Conference facility is available with HD specifications.
7. Internet facility is provided on all 435 computers.

Summary of equipment is given below:

Sr. No.	Particulars	Quantity/ Details
1	Number of PCs	435
2	Legal system software along with valid license	376
3	Legal Application software along with valid license	32
4	LAN & Internet	Yes
5	Internet speed in Mbps	34 Mbps(10+10+10+4)
6	Printers	18+17(DMP+Laser)
7	PCs available for administration / Office use	23
8	PCs in Library and Language Lab as per norms	20 +21
9	PC made available to faculty.	81+7 Laptop
10	Exclusive printers made available to students	18

- **Computer student ratio:**
Student Computer ratio is 1:1 in laboratory.
- **Stand alone facility:**
Fifteen computers are available in digital library with LAN and internet connectivity exclusively for students.
- **LAN facility:**
All the computers are connected with LAN
- **Wi-Fi Facility:**
Entire campus is provided with Wi-Fi Facility with 46 access points.
- **Licensed Software.**
The Institute has Following Licensed software:

Sr. No.	Software Name	Quantity
1	Linux Es 4.0 Standard	1
2	Linux Desktop 4.0	20
3	Ms Office Prof Plus 2007	10
4	Ms Office Std 2010 Sngl Olp Acdemc	50
5	Ms Visual Studio Prof	5
6	Ms Visual Studio Prof 2010 Sngl Olp Ni Acdme	55

7	Ms Visual Studio Prof 2005	5
8	Oracal Log Standard 5	1
9	Autocad 2008	20
10	Autocad 2008	1
11	Borland Turbo C++	20
13	Tally Multiuser 9.0	1
14	Ms Windows Server 2003	1
15	Ms Windows Server 2008	2
16	Ms Windows Server 2008	1
17	Matlab	25
18	Multsim	10
19	Active Hdl	5
20	Autocad Inventor Proff.2009	20 USERS
21	Ibm Rational Software	30 USERS
22	Dassault System Catia	20 USERS
23	Epabx Costing Software	1
24	Tina S/W Education V8 Design Suite 100928	1
25	Tina Lock Tina V8 Design Suite 0410138-To 0410147	10
26	Ansys 12.1 Perpetual License	25
27	Adob Flash	20
28	Ms Project 2010 Sngl Olp Nl Acdmc	20
29	Oracal 11 G	21
30	Oracal Soft Update	21
31	Oracal Ats	21
32	Sql Server Std 2008r2 Sngl Olp Nl Acdmc	3
33	Sql Cal 2008r2 Sngl Olp Nl Acdmc Dvccal	60
34	Siemens Hipath 500	1
35	Windows Vista Os Upgrad Version	301
36	Windows 7 Os Starter Pa Ck	301
37	Proteus Vsm	25
38	Microwind Package	5
39	'Spj' Make C Compiler For 8051 Microcontroller	1
40	'Spj' Make Additional License For Sc51	9
41	Matlab	25
42	Matlab	25
43	Staad Pro	05
44	Seqrite Endpoint	150
45	Advance Hydraulic Trainer Kit Ladder Software	1
46	Fluidsim-P Software	1

47	Computer Based Diesel Engine With Hardware	1
48	Win Utm	1
49	Scada	3
50	Office 2013	40

- **Numbers of nodes/ Computers with internet facility**
Information is given in the summary table (page No. 214)
- **Printers and Scanners**

Sr. No.	DATE	ITEM	QTY	Price (Rs.)
1	04/05/07	Hp Designjet Plotter /E10 Card	1	Rs 71,760
2	29/03/07	Dmp Printer	2	Rs 26,624
3	08/06/08	Wipro Laserjet 1505	2	Rs 22,172
4	08/06/08	Wipro Printer Dmp	8	Rs 93,184
5	21/03/09	Epson Lx 300 Printer	10	Rs 73,840
6	21/03/09	Hp Scanjet G2410 Scanner	3	Rs 13,104
7	2009	Hp Scanner	1	Rs 12,765
8	17/08/10	Hp Laserjet P1007	8	Rs 48,000
9	10/05/12	Laser Printer/Copier	1	Rs 29,699
10	04/05/07	Hp Laserjet P1022	2	Rs 19,760
11	2011	Hp Colour Laser Printer	1	Rs 19,500
12	2011	Hp Laserjet Printer With Scanner 1136	1	Rs 10,800
13	2011	Hp Laserjet Printer 5200	1	Rs 66,500
14	2011	Xerox Photocopying Machine	1	Rs 1,25,000
15	03/04/12	Hp Laserjet 1108 Printer,	2	Rs 10,800
16	03/04/12	Hp Scanner 2410	4	Rs 10,950
17	19/11/12	Hp Laserjet Pro M400d	2	Rs 43,500
18	19/11/12	Canon Digital Copier	1	Rs 1,33,500
19	03/08/13	Hp 200 Scanner Ser No : Cn34a13rv	1	Rs 3,976
20	13/10/14	Hp Laser Jet 1020 Printer Ser No Cnch615177	1	Rs 7,800
21	13/10/14	Hp Laserjet Pro 1136 All In One	1	Rs 10,900
22	06/12/14	Hp Laserjet1020plus Laser PrinterCnch610925/Cnch520035	2	Rs 15,400
23	19/10/15	All In One L220	1	Rs 10,500

- **Projectors**

Date of Purchase	ITEM	QTY	Price(Rs.)
22/03/2007	Epson Lcd Projector	2	Rs 1,04,288
20/05/2008	Epson Lcd Projector	2	Rs 83,250
30/05/2009	Epson Lcd Projector	3	Rs 1,08,000
12/09/2009	Over-Head Projector	13	Rs 1,97,971
19/08/2010	Epson Lcd Projector Ebs 7	3	Rs 99,562
30/10/2011	Lcd Projector Epson	1	Rs 47,000
08/10/2014	Lcd Projector Epson	4	Rs 1,31,000
21/10/2015	Epson Projector S-31	1	Rs 20,222
02/03/2016	Epson Projector Ebx-31	3	Rs 96,900

- **Network Hardware**

In order to enhance hardware and networking, institute has Cisco Switches connected with fibre optics cable. Local area network is designed using CAT5 and CAT6 cables.

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

Following facilities are made available to faculty and students.

1. Faculties have desktop computers with internet facility to enhance the teaching learning process. We have laboratories with desktop and internet facility to students. All classrooms have computers.
2. We also run cyber café free of charge for the students after college hours under the “Learn and Earn” scheme.
3. Information and Internet security is provided through Cyberoam firewall (Model- CRiNG300). All the computers in institute are secured by Antivirus Seqrite Endpoint security total 6.2.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

1. Up-gradation of internet band width from 14 Mbps to 32 Mbps is under process.
2. One classroom in each department is upgraded to smart classroom with smart board.
3. Institute has plans for mobile application development for deploying all IT facilities on student mobiles.

4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

Combined budget for above heads is given in the table below. Maintenance based on the requirement is expected to be met out of the total sanctioned budget. The budget sanctioned is indicative and respective heads have freedom to exceed budget subject to prior approval of the top management. All expenditure is expected to be done after following all the due process of tendering/purchase orders and with strict financial fidelity.

Sr.No.	Year	Sanctioned budget (In Lakh)	Utilized Budget (In Lakh)	Remark
1	2016-17 to date	828.85	20.95	The data is upto 14/03/2017
2	2015-2016	10.00	18.41	Special budget sanctioned for CCTV, Computer Peripherals, Software, Computers, software subscription
3	2014-2015	37.80	22.78	PG programmes in Mechanical and Chemical were to be started and hence more budgets were sanctioned. Since PG approval is awaited, expenditure was not made.
4	2013-2014	34.76	19.31	PG programmes in Mechanical and Chemical were to be started and hence more budgets were sanctioned. Since PG approval is awaited, expenditure was not made.
5	2012-2013	46.92	25.60	Institute was trying for new branch approval and hence higher budgetary provision. As approval for

				the same is pending, actual expenditure is less.

* Computer maintenance is not included as is mentioned under maintenance head 4.4.1

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/learning materials by its staff and students?

- GIT is recognized remote center for IIT Bombay and IIT Kharagpur for conducting workshops on various topics under NMEICT program sponsored by MHRD. GIT's remote center ID is 1059.
- **WebOPAC** – Online Public Access catalogue is Accessible in Campus Local Area network. OPAC Access Link is: 10.56.56.56/W27. With this new Module "WebOPAC" our staff and students find the books in our Library.
- **NPTEL videos:** Access to NPTEL videos (45000 videos) in GIT LAN by using URL, <http://10.37.1.105/NPTEL>.
- **MOOCs online courses** through digital library are provided to all the students.
- Books in CD format are also available in Central Library.
- LAN is extensively used by students and teachers for pre-lecture preparation.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching- learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

In our college we have designed the **E-Learning Centre facility** available at the intranet link: <http://10.246.246.222/elrc>. In this portal every subject teacher is providing following study material for every semester. Students can download this material anytime.

- 1) Syllabus
- 2) Teaching Plan
- 3) Question Papers.
- 4) Laboratory Manuals
- 5) Notes
- 6) Videos
- 7) Presentations
- 8) Software

- We have provided separate email ids in the domain **git-india.edu.in** to all the students and faculties from where we can communicate and interact with each other.
- A dedicated Facebook Account is also available in which more than 2000 students are linked with each other and working as a great platform for communication and knowledge sharing between students, alumni, and faculties.
- Pre- lecture preparation and post lecture tutorial implementation is enabled through LAN.
- IT enabled Study Circles are encouraged in student communities and teachers act as facilitators. Concept of inverted classroom has also been extensively experimented.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

- Under NMEICT program sponsored by MHRD institute has availed internet connectivity of 10 Mbps.
- 200 Aakash tablets were procured from IIT Bombay under NMEICT program.
- The facility of Nearly 45 Online NPTEL certificate courses is available at institute under NMEICT.

Workshop Details under IIT, Bombay and IIT, Kharagpur

Sr. No.	Date	IIT Remote Centre Workshop Topic	No. of Participants
1	June 25th, 2012 to July 4th, 2012	Introduction to Research Methodologies	14
2	November 10th, 2012 to November 11th, 2012	2 days ISTE Workshop on Aakash for Education	48
3	December 11th, 2012 to December 21st, 2012	2-Week ISTE Workshop On Engineering Thermodynamics	25
4	May 21st, 2013 to May 31st, 2013	Two-Week ISTE Workshop On Database Management Systems	21
5	November 26th, 2013 to December 6th, 2013	TWO-WEEK ISTE WORKSHOP on Engineering Mechanics	11

6	June 4th , 2013 to June 14th, 2013	Two-Week Workshop On Analog Electronics	17
7	June 30th, 2014 to July 5th, 2014	Two Week ISTE Main Workshop on Computer Networking	25
8	July 10th, 2014 to July 20th, 2014	Two Week ISTE Main Workshop on Cyber Security	12
9	January 2 , 2014 to January 12th, 2014	Two Week ISTE Main Workshop On Signals & Systems	42
10	April 21st, 2014 April 26th, 2014	ISTE Workshop on Computer Programming	26
11	20 May 2014 to 30 May 2014	Two Week Main Workshop on Fluid Mechanics	15
12	September 15 , 2014 September 19 , 2014	Two Week Main Workshop on Control Systems	20
13	May 25 , 2015 May 30 , 2015	Two Week ISTE STTP on Introduction to Design of Algorithms	17
14	January 5th, 2015 to January 31st, 2015	TWO - WEEK ISTE Short Term Training Programme (STTP) on Pedagogy for Effective use of ICT in Engineering Education	25
15	December 08th, 2015 to December 18th, 2015	Engineering Physics Workshop	9
16	January 04th, 2016 to January 09th, 2016	Introduction to Structural Engg	10
17	January 29 th 2017 to February 4 th 2017	CMOS VLSI and MixedSignal Frequency	8

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

All HODs, Maintenance Department and Store department prepare the estimation of maintenance expenditure for upcoming financial year. The

Budget is reviewed by Principal and put forward in LMC for discussion. The Budget for maintenance is then sanctioned in LMC. The utilization of allocated budget and progress is monitored every month in LMC and resolutions are made accordingly.

Budget allocated and Expenditure for Maintenance during last four years (Rs. in Lakhs):

Year	2012-13	2013-14	2014-15	2015-16	2016-17
Sanctioned Budget	35.00	30.44	45.00	50.00	75.00
Vehicle Budget	9.00	9.00	9.00	9.00	9.00
Total	44.00	39.44	54.00	59.00	84.00
Particulars	Expenditure				Todate
Land	0.13	0.06	0.23	5.00	29.84
Building	23.31	33.73	34.80	22.83	36.96
Furniture		1.43	0.94	0.02	3.26
Equipment	6.14	4.77	3.18	2.63	3.20
Computers	0.11	2.70	1.75	4.15	5.26
Vehicles	3.56	6.68	7.58	6.64	6.21
Others	0.41	0.41	1.46	0.77	0.33
Total	33.66	49.77	49.94	42.04	85.07

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

- There exist a Project & Maintenance section which looks after development and maintenance of infrastructure.
- This team looks after the daily maintenance of civil works, furniture repairs, masonry and plaster works, painting & plumbing works etc.
- There is a Faculty/staff in charge with responsibility of overall electric works, which also has a team of electrician working under him to look after electrical maintenance.
- Every department has laboratory in charges and staff assigned to look after maintenance of equipment.
- Maintenance and repair request can be placed through area adoption program- A campus maintenance monitoring system. This covers the civil, electrical, equipment, computer, communication, and IT maintenance.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?

- Equipment in AMC is calibrated annually. Manual of equipment usually gives suggestions for calibration frequency and is adhered to.
- The college takes up annual maintenance and repair of the infrastructure in a rotation manner for various depts. Calibration issues get addressed during maintenance as well. The works are identified as major and minor repair works.
- The computers and electronic devices are maintained and repaired through system and hardware professionals on payroll of institute.
- We have qualified Electric Engineer for the maintenance and calibration of electrical equipment.
- The calibration of laboratory equipments and measuring devices is periodically carried out by the department/institute/outside agency/OEM.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)? Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

- AMC is in place for voltage sensitive equipments, water purifiers, UPS, EPABX, Generator, Reprographic Facility and Critical high cost equipment in department laboratories.
- During shortage of water supply (especially in summer), provision of water supply is made through Tankers.
- The laboratory assistants keep a strict vigil over the smooth working of the sensitive equipments in their respective laboratories and get them repaired irrespective of budget allocation. Calibration frequency is strictly followed.
- Stabilizers are provided for computer laboratories and selected laboratories where sensitive equipment are kept.
- Diesel generator and UPS backup are provided during voltage fluctuation.
- Online UPS power supply is provided for selected laboratories.

CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Institute publishes the prospectus every year and is made available to the students/parents. It includes vision and mission statements, fee structure, different scholarships, infrastructure available, academic programmes, counsellor scheme, information of student's grievance committee, women's development cell, and anti ragging committee. It also contains the data of total teaching staff in various departments. Sports and cultural activities conducted in institute, engineering exhibition information is also included in the prospectus. General rules for students, the attendance, and discipline, conduct of students in campus, etc are also described in prospectus.

5.1.2 Specify the type, number and amount of institutional scholarships / free ships given to the students during the last four years and whether the financial aid was available and disbursed on time?

The institute offers four different scholarships to the students. Details are as follows:

I. GIT merit scholarship:

This scholarship is given to the first three toppers from first year to final year of every department. The merit scholarship amount is First rank-Rs 12,000/-, Second rank-Rs 10,000/-, Third rank-Rs 8,000/-. Following are the details for academic year 2016-17.

Department	Semester	Rank	Name	Average %/ Grade	Amount (in Rs)
Chemical	1&2	1	Mr. Pednekar Amit Surendra	7.39	12,000/-
		2	Mr. Dalwai Shawaf Mohammad	7.12	10,000/-
	3&4	1	Mr. Mahajan Swapnil Mansaram	8.79	12,000/-
		2	Mr. Kelkar Aditya Mahesh	8.72	10,000/-
		3	Mr. Shinde Ajit Anand	8.11	8,000/-
	5 & 6	1	Mr. Malgaonkar Vithoba Babu	9.33	12,000/-
		2	Mr. Duste Zarin Javed	9.12	10,000/-
		3	Miss. Kaimal Arunima Murlidhar	8.17	8,000/-

Civil	1&2	1	Mr. Ansari Sadique A.	8.09	12,000/
		2	Mr. Nikam Akshay Prashant	7.99	10,000/
		3	Mr. Sawant Mohammad Rayyan	7.32	8,000/
	3&4	1	Mr. Rane Omkar Anil	7.68	12,000/
		2	Miss. Sawant Amruta Avadhut	7.60	10,000/
		3	Miss. Dalvi Divya Baburao	7.57	8,000/
	5&6	1	Mr. Rahate Kaushik Sandip	9.21	12,000/
		2	Mr. Develekar Shubham Rajesh	8.59	10,000/
		3	Miss. Bhagane Sayali Anantkumar	8.57	8,000/
Computer	1&2	1	Miss. Chavan Pallavi	7.00	12,000/
	5&6	1	Miss. Kadam Vrishali Rajendra	9.17	12,000/
		2	Miss. D'cruz Saniella Valria	8.8	10,000/
EXT C	3&4	1	Mr. Kangane Roshan Suresh	7.94	12,000/
		2	Miss. Lambde Kishori Kishor	7.85	10,000/
		3	Miss. Waikar Samidha Sanjay	7.81	8,000/
	5&6	1	Miss. Vichare Dhanashri Anant	8.17	12,000/
		2	Miss. Jamdade Sonal Anant	8.04	10,000/
		1	Ambre Poonam Anil	7.5	12,000/
Mechanical	1 & 2	1	Mr. Diwale Suhas Sunil	8.65	12000/
		2	Mr. Chalke Omkar Pravin	8.13	10000/
		3	Mr. Rathod Kishor M.	7.69	8,000/
	3&4	1	Mr. Mukadam Nagraj Pramod	9.22	12,000/
		2	Mr. Gothal Rohit Raghunath	8.39	10,000/
		3	Mr. Mhaskar Nikhil Namdev	7.92	8,000/
	5&6	1	Mr. Netke Nikhil Uday	9.59	12000/
		2	Mr. Patil Alpesh Kesarinath	8.75	10000/
		3	Mr. Patkar Prathamesh Nitin	8.62	8000/

Academic year 2015-16.

Department	Semester	Rank	Name	Average %/ Grade	Amount (in Rs)
Chemical	I&II	1	Kelkar Aditya Mahesh	7.16	12,000

	III&IV	1	More Sandesh Prakash	9.18	12,000
		2	Malgaonkar Vithoba B.	8.55	10,000
		3	Duste Zarin Javed	8.30	8,000
	V&VI	1	Nikam Suraj Pundalik	7.98	12,000
Civil	III&IV	1	Rahate Kaushik Sandip	8.36	12,000
		2	Bhagane Sayali A.	7.92	10,000
		3	Devalekar Shubham R.	7.90	8,000
	I&II	1	Sawant Amrut Avadhut	7.83	12,000
		2	Chalke Ashwini S.	7.57	10,000
		3	Jadhav Sanket Santosh	7.15	8,000
Computer	III& IV	1	Kadam Vrishali R.	8.20	12,000
		2	D'cruz Saniella V.	7.53	10,000
	V&VI	1	Salavi Manali Arun	8.83	12,000
EXTC	I & II	1	Sonawane Shweta Satish	7.16	12,000
		2	Waikar Samidha Sanjay	7.04	10,000
	III & IV	1	Jamdade Sonal Anant	8.36	12,000
		2	Patil Kunal Nityanand	7.63	10,000
		3	Vichare Dhanashri Anant	7.41	8,000
	V & VI	1	Ambre Poonam Anil	7.5	12,000
		2	Kadam Prajakta Prakash	7.4	10,000
Mechanical	I & II	1	Mhaskar Nikhil Namdeo	8.26	12,000
		2	Gothal Rohit Raghunath	7.81	10,000
		3	Savant Somanath R.	7.69	8,000
	III & IV	1	Patil Alpesh K.	8.43	12,000
		2	Netke Nikhil Uday	8.28	10,000
		3	Kambli Kumar Anant	7.96	8,000

	V & VI	1	Gugale Amay Dagadu	8.31	12,000
		2	Dhamnaskar Vinay	8.22	10,000
		3	Shinde Akshaykumar M	7.82	8,000

II. Late Dr. P. S. Ramanathan Endowment Scholarship:

This scholarship is given to the student who has consistent academic performance from first year to final year and is selected from all the departments of GIT. Scholarship amount is Rs 10,000/ per year and is offered by Dr. Prasad Ramanathan in memory of his late father Dr. P.S. Ramanathan. This scholarship is given to needy and scholar student, whose family income is less than Rs 5.00 lakh. Following is the list of students who received the scholarship:

Assessment Year	Name of Student	Branch	Percentage/ Grade	Amount (in Rs.)
2016-17	More Sandesh Prakash	Chemical	9.07	10,000/
2015-16	Palkar Amit Ankush	Mechanical	8.81	10,000
2014-15	Gadhawe Akshay Vijay	EXTC	65.00%	10,000
2013-14	Ingale Aparana Vilas	Computer	67.37%	10,000

III. Sansthan Shridev Bhargavram Scholarship:

Scholarship amount is Rs.300/- per month in a year offered by Mr. Ravindra Karandikar through Parshuram Sansthan for 5 local students (within Ratnagiri district). Students are suggested by the institute. Following are the details of scholarship:

Assessment Year	Name of Student	Branch	Amount (in Rs)
2015-16	Kambli Kumar Anant	Mechanical	3,000
	Malusare Aniket Anant	Mechanical	3,000
	Surve Nikhil	Mechanical	3,000
	Lad Prasanna Vilas	Chemical	3,000
	Shinde AkshayKumar	Mechanical	3,000
2014-15	Patkar Prathamesh Nitin	Mechanical	3,000
	Shinde Akshaykumar	Mechanical	3,000
	Khedekar Chetana	Civil	3,000
	Sawant Chaitali	EXTC	3,000
	Pawar Shivaji Y	Civil	3,000
2013-14	Peje Swapnil Suresh	Civil	3,000
	Kadam Kishor K.	Chemical	3,000

	More Mandar Dilip	Civil	3,000
	Parpate Rohan Deepak	Civil	3,000
	Yadav Pratik Anant	Chemical	3,000

IV. Late Smt. Nirmala Damodar Karandikar Scholarship:

This scholarship is given to one or two local girl students (within Ratnagiri district) who are academically good and financially poor. Scholarship amount is Rs 10000/- per year and is offered by Mr. Ravindra Karandikar in memory of his late mother Nirmala Karandikar.

Assessment Year	Name of girl student	Resident of	Branch	Amount (in Rs)
2016-17	Kadam Vrunda Vilas	Chiplun	MECH	10,000
2015-16	Surve Harshana Vishnu	Chiplun	EXTC	10,000
2014-15	Sawant Chaitali Ramesh	Chiplun	EXTC	10,000
2013-14	Shaikh Karishma Kasim	Chiplun	EXTC	10,000

V. 10% discount in hostel fees

To foster student performance in academics the institute is providing with a scholarship to those students who are scoring grade point above 6.6 (C.G.P.A). In this scholarship 10% of the hostel fess is remitted back to the students.

Department	Sr. No.	Name of Student	Class	Grade points (2015-2016)	Hostel fees paid Rs.	10% discount amount Rs.
	1	Miss. Sambare Shivani Ashok	SE	7.44	18000/	1800/
	2	Mr. Pednekar Amit Surendra	SE	7.39	18000/	1800/
	3	Mr. Sojitra Vivek Madhavji	TE	7.13	18000/	1800/
	4	Mr. Jadav Vivek maganbhai	TE	7.09	16000/	1600/

CHEMICAL ENGINEERING	5	Miss. Tamore Suchita Jaywant	TE	8.81	18000/	1800/
	6	Mr. Parmar Viral Hasmukhlal	TE	7.00	18000/	1800/
	7	Mr. Nikam Akshay Ashok	TE	7.66	16000/	1600/
	8	Mr. Vaity Swapnil Hariram	TE	7.45	16000/	1600/
	9	Mr. Bali Nagman Naushad	TE	8.07	16000/	1600/
	10	Miss. Bhosale Namita Narayan	TE	7.37	18000/	1800/
	11	Mr. Bhanushali Mitesh N.	BE	8.30	16000/	1600/
	12	Mr. Tiwari Sunny Premprakash	BE	7.77	20000/	2000/
	13	Mr. Tyagi Bharatendu J.	BE	7.15	16000/	1600/
	14	Mr. Ghosh Abhishek Y.	BE	7.36	16000/	1600/
	15	Mr. Kadam Rushikesh Manoj	BE	7.01	16000/	1600/
	16	Miss. Jadhav Vaihehe R.	BE	7.76	18000/	1800/
	17	Mr. Rawate Hitesh Dilip	BE	8.14	18000/	1800/
	18	Mr. Sanket Girish Godkhindi	BE	7.08	18000/	1800/
	19	Miss. Dharmadhikari Priyanka	BE	8.74	18000/	1800/

	20	Mr. Isane A. Rehman Nadeem	BE	7.95	16000/	1600/
	21	Mr. Dewale Suraj Krushna	BE	7.28	16000/	1600/
	22	Mr. Duste Zarin Javed	BE	9.13	20000/	2000/
	23	Mr.Kaimal Arunima Murlidhar	BE	8.17	18000/	1800/
	24	Mr. More Sandesh Prakash	BE	9.49	16000/	1600/
	25	Mr. Avadan Prasad Vasant	BE	7.64	16000/	1600/
	26	Mr. Sangave Suraj Sarjerao	BE	7.02	16000/	1600/
	27	Mr. Kamble Kiran Pramod	BE	8.44	16000/	1600/
	28	Miss. Savadkar Gitanjali R.	BE	7.37	18000/	1800/
MECHANICAL ENGINEERING	29	Mr. Bapat Bhushan Bhupesh	SE	7.22	16000/	1600/
	30	Mr. Haldankar Chirag Hemant	TE	7.38	16000/	1600/
	31	Mr. Patil Swapnil Vishwanath	TE	7.48	16000/	1600/
	32	Mr. Chavan Amol Anandrao	TE	7.07	16000/	1600/
	33	Mr.Arkar Amir Imtiyan	TE	7.25	16000/	1600/
	34	Mr. Sawant Somnath R	TE	7.48	16000/	1600/

	35	Miss. Mandavkar Meghana	TE	7.48	16000/	1600/
	36	Mr. Patil Pralaykumar K.	BE	6.67	18000/	-
	37	Mr. Sukale Saurabh Ravindra	BE	6.91	16000/	1600/
	38	Mr. Patil Pranay Sudhakar	BE	7.78	16000/	1600/
	39	Mr. Surve Nikhil Shripat	BE	7.81	20000/	2000/
	40	Mr. Gaikwad Subhod Sanjay	BE	7.23	16000/	1600/
	41	Mr. Sonawale Pranit Dharma	BE	7.07	16000/	1600/
ELECTRONICS & TELECOMMUNICATION ENGINEERING	42	Miss. Parde Samidha Deepak	TE	7.09	16000/	1600/
	43	Mr. Pathak Ritik Rakesh	TE	7.23	20000/	2000/
	44	Mr. Shinde Ajit Anand	TE	8.11	16000/	1600/
	45	Miss. Mokal Pooja S.	TE	7.14	20000/	2000/
	46	Miss. Waikar Samidha Sanjay	TE	7.81	20000/	2000/
	47	Miss. Kadam Pranita Jaywant	BE	7.42	18000/	1800/
	48	Miss. Kadam Darshana Dilip	BE	7.66	18000/	1800/
	49	Miss. Mhatre Hemangi P.	BE	7.64	18000/	1800/
	50	Miss. Sheth Anuja Sunil	BE	7.83	25000/	2500/

	51	Miss. Kadam Vrishali R.	BE	9.16	18000/	1800/
	52	Miss. Karawade Prafulli	BE	8.1	18000/	1800/
	53	Miss. Ambadkar Priyanka V.	BE	7.01	18000/	1800/
	54	Mr. Patil Kunal Nitynand	BE	7.8	18000/	1800/
	55	Miss. Panchal Minakshi S.	BE	7.45	18000/	1800/
	56	Miss. Bhandari sonali D.	BE	6.96	18000/	1800/
	57	Miss. Pawar Alipta Anil	BE	6.89	25000/	2500/
	58	Miss. Pawar Ankita Jagadish	BE	7.16	18000/	1800/
	59	Miss. Vavekar Purva Kishor	BE	7.25	25000/	2500/
COMPUTER ENGINEERING	60	Miss. Bapat Bhakti Bhupesh	SE	7.54	18000/	1800/
	61	Miss. Narewadi Gayatri K.	BE	7.67	18000/	1800/
	62	Miss. Mohite Sneha R.	BE	7.91	18000/	1800/
	63	Miss. Shetye Manasi Shekhar	BE	9.33	20000/	2000/
	64	Miss. Tembe Priyanka Rongu	BE	8.33	18000/	1800/
	67	Mr. sawant Mohammed R.	SE	7.31	16000/	1600/
	68	Miss. Salgaonkar Darshna N.	SE	8.11	16000/	1600/

CIVIL ENGINEERING	69	Mr. Jadhav Sanket Santosh	TE	7.41	16000/	1600/
	70	Mr. Sawant Akshay Bhagwan	TE	7.08	16000/	1600/
	71	Miss. Gawade Prajakta P.	BE	7.03	16000/	1600/
	72	Miss. Manchekar Swapnali	BE	8.21	18000/	1800/
	73	Mr. Rajage Rajendrakumar V.	BE	7.71	16000/	1600
	74	Mr. Tari Sujit Dattaram	BE	6.81	16000/	1600/
	75	Mr. Devalekar Shubham R.	BE	8.60	25000/	2500/
	76	Miss. Chouhan Vaishali P.	BE	7.96	18000/	1800/
	77	Miss. Surve Neha CHandrakant	BE.	7.87	16000/	1600/
	78	Miss. Bhingarde Rucha Prakash	BE	7.49	25000/	2,500/
	79	Miss. Jadhav Rohini Shamrao	BE	8.13	18000/	1,800/
	80	Miss. Kalkutke Sayali Bhimrao	BE	7.33	18000/	1,800/
	81	Miss. Chavan Aradhana Vishnu	BE	7.61	18000/	1,800/
	82	Miss. Patil Mansi Sudhir	BE	7.79	18000/	1,800/
	83	Miss. Singh Sudhakar T	BE	8.47	20000/	2,000/

	84	Mr. Khorgade Omkar Anand	BE	8.15	16000/	1,600/

VI. One Time Scholarship:

Sr. No.	Name of student	Course	Category	HSC %	CET Score	Amount Rs.
1	Jain Harsh Rajkumar	CHEM	Open	77.69	99	10,000/
2	Patil Rohit Prakash		Open	70.00	98	10,000/
3	Khan Daiyan Abdul		Open	71.54	79	10,000/
4	Sawant Suraj S.	COMP	Open	73.54	80	10,000/
5	Pote Haseeb L.		Open	70.00	77	10,000/
6	Talathi Chaitanya		Open	68.00	77	10000/
7	Shukla Gauravkumar	COMP	Open	82.60	76	10000/
8	Gandhi Vipul Vivek	EXTC	Open	73.08	86	10000/
9	Kadam Apeksha Ashok	Civil	Open	68.77	88	10000/
10	Sarkar Gautam Gour		Open	84.92	85	10000/

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

Academic Year	% Students receives Scholarship
2015-16	54.70
2014-15	51.38
2013-14	52.43

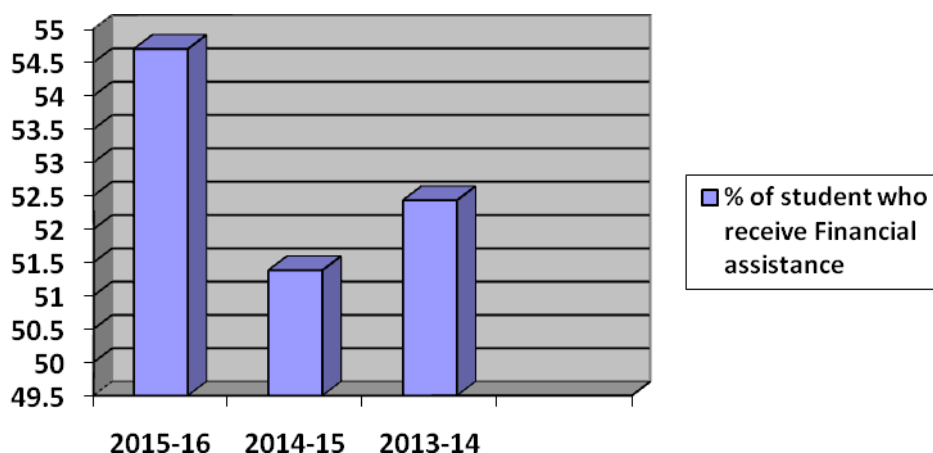


Fig. Year wise distribution of scholarship

5.1.4 What are the specific support services/facilities available for Students from SC/ST, OBC and economically weaker sections, Students with physical disabilities, Overseas students, Students to participate in various competitions/National and International Facilities available for students from SC/ST, OBC and economically weaker sections

- The institute assists the SC/ST and OBC students in the process of getting the government scholarships. We also have the different college level scholarships for economically weaker students who excel in the studies.
- Library Facility for SC/ST: The institute has provision of separate book bank facility for SC/ST students.
- **Facility for Physically disabled Students:** Preference is given to the students with physically disabilities in usage and book issues in Library. They can exchange the books on any day and time. More numbers of book are provided as compared to normal students.
- **Facilities available for overseas students:** We don't have any overseas students.
- **Facilities available for Students to participate in various competitions/National and International:** Seminar/workshops, symposiums, paper presentations, presentation on communication skill development, motivational lectures by expert faculty are arranged by the respective departments of the college. The students are allowed to participate in various competitions organized by nearby institutes. They can access research journals. This helps the students to keep in touch with the recent developments. The information about the various competitions

throughout the India is displayed on the main notice board as well as departmental notice board.

- **Medical assistance to students: health centre, health insurance etc.:** Institute provides first level medical attention by experienced and qualified team of Doctors, Nurse and Pharmacist. Institute has good quality of medical store which meets the requirements of emergency as well as general medicine at subsidized rate required to the students as prescribed by GIT Medical officer. Emergency medical care and first-aid is available in the campus. General medicines are made available in the centre. First-aid boxes with all accessories are kept in all laboratories and other strategic locations. A vehicle facility is available in the college campus for medical emergency. A full-fledged hospital known as “Gharda Hospital” at Lote is available within 7 km from the institute which can be reached within 10 minutes. Doctors and nurses are available round the clock. The Institute refers all emergency cases to the hospital. Warden and staff take care of the medical complaints of students and pass on information to parents. Warden and supporting staff are instructed to respond immediately to all medical complaints from the students. Snake bite antidote is available 24 hours in the institute campus.

- **Organizing coaching classes for competitive exams:** Institute organises classes exclusively for GATE preparation. These classes are arranged in extra hours other than the academic time table. Faculty engage these classes and guide the students for different competitive exams. Study material for preparation of GRE, TOFEL, CAT and GATE examinations is provided in the central library.

- **Skill development (spoken English, computer literacy, etc.):** The institute has a well equipped language lab to enhance the language skills of the students.

Following are the specifications:

1. Area:-90 m²
2. Instruments:- 20 computer with all hearing and learning accessories
3. Batch Size:-20 students

Institute regularly organizes soft skill development programmes for the students weaker in this area. Institute has also appointed two full time faculties to teach the subject related to the soft skills which are included in university curriculum. Institute also provide skill development in hardware and networking which enables student to keep themselves updated with latest trends of computer peripherals and application knowledge.

Hardware and networking

Area: 177.114 m²

Batch Size: 20 students

Instruments details are listed in the following table.

Academic Year 2015-16				
Computer Systems	Quantity	LCD Projector	Dot Matrix Printer	LAN Switch
IBM P-IV, BLUECOM, LENOVO P-IV, WIPRO BLACK, WIPRO BLUE	45	1	2	3

- **Support for ‘slow learners’:** Slow learners are identified by tracking the performance of students in different examinations. The identified students are mentored properly and special coaching is provided to them. Remedial classes are arranged for the students who are weak in academics. Extra classes are engaged by the respective faculty for the slow learner in the subject and special tutorials are conducted. Practice examinations are conducted for the students weaker in academics.
- **Exposures of students to other institution of higher learning/ corporate/business house etc:** Institute has established the relations with different organizations and industry through MOUs. Students are always encouraged and assisted for training and internship in elite institute and industries. All departments arrange industrial tours for the students. Students are also encouraged and assisted for participation in various technical events in other institutes.
- **Publication of student magazine:** Institute publishes its annual magazine *GITian*. The magazine is composed by the students with their essay, short stories, poetry, etc. All departments publish the quarterly news letter through library where students contribute.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

- Institute helps the students for undergoing industrial training during vacation. Institute for entrepreneurial skills arranges expert lectures.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc

***additional academic support, flexibility in examinations**

***special dietary requirements, sports uniform and materials**

***any other**

Institute supports extracurricular and co-curricular activities. Institute has appointed separate sport instructor to co-ordinate the activities related to sports. Students are constantly motivated to participate in extracurricular and co-curricular activities. Students with the talent in sports participate in different events. Institute provides the financial support for the students to participate in these activities at the university and state level. Institute conducts annual sports event in the month of JAN-FEB every academic year. The annual sports event covers tournaments for Cricket, Football, Kabaddi, Kho-Kho, Volley Ball, Badminton, Table-Tennis, Carom, and Chess. Extra classes are arranged for the students who miss out the academics due to the participation in these activities. Flexibility in sessional examinations is given if exam schedule and sports schedule overlap. Sports uniform and required diets are provided to the students participating in national and state level events. Institute provides all the sports material required for practise session as well as during actual participation. The institute has financial arrangement in budget for sports.

Under Annual social and cultural activity known as *Synergy*, co-curricular events like Debates, Quiz competitions, Treasure hunt etc are conducted to enhance the students' study concentration through games.

The students also participate wholeheartedly in different extra-curricular competitions like Drama, Dance, Singing, One minute show, Art Gallery, Fashion show etc which are arranged and organized under *Synergy*.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defence, Civil Services, etc.

Academic Year	Name of Exam	No. of students Appeared	No. of students Qualified
2015-16	UPSC	01	01
2014-15	GATE	45	01
	GRE	02	02
2013-14	GATE	46	02
	GRE	01	01
2012-13	GATE	01	01

5.1.8 What type of counselling services are made available to the students (academic, personal, career, psycho-social etc.)

Institute has full time counsellor having the professional qualification and experience.

Academic: The institute provides regular counselling to the students to address issues relating to their academic shortfall and obstacles. The institute has a mentor scheme where a group of 15- 20 students are placed under the guidance of Mentor (Faculty). The Mentor looks after their academic requirements and makes arrangements for remedial and tutorial classes. The matters which are difficult to solve at mentor level, are referred to counsellor.

Personal: The mentors perform regular interaction with the students placed under their mentorship at a one-to-one level. A friendly environment is provided to make student comfortable to share their personal problems. The mentors maintain secrecy of any personal information and takes necessary corrective steps in consultation with senior official staffs, thereby addressing personal problems.

Career: The institute encourages students towards taking up higher studies and research. The following actions are taken:

1. Special training for preparation in GATE examination
2. Aptitude, soft skill and technical skill classes are arranged for the students apart from their regular classes through special scheduled classes.
3. Cash prizes to rankers and class toppers for motivating them.

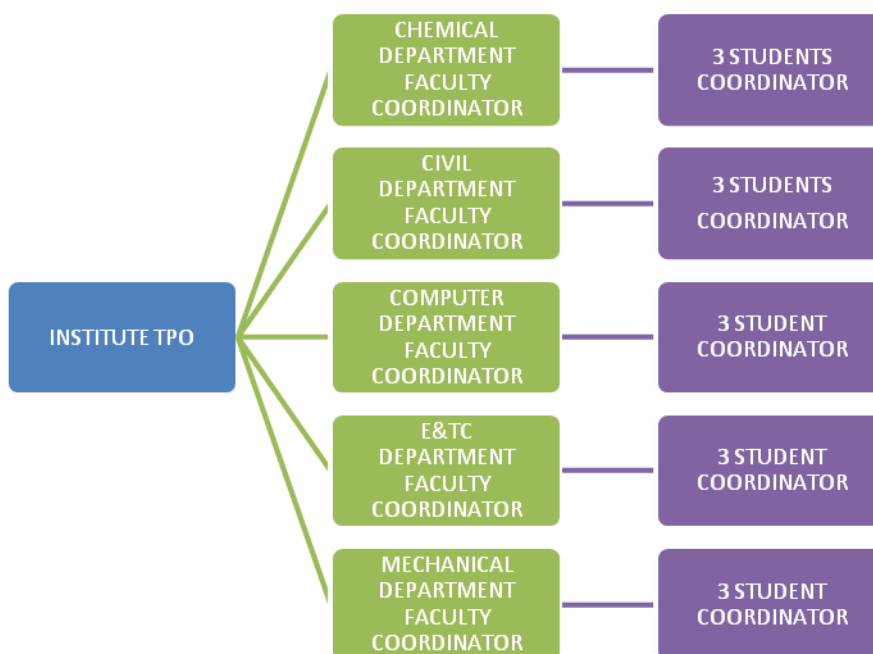
Psycho-social: Institute has appointed full time counsellor, who works along with mentors to look into the problems relating to social factors

affecting students, peer pressure, parental support, cultural, religious background, socio-economic status and interpersonal relationships.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If ‘yes’, detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students elected during campus interviews by different employers (list the employers and the programmes).

Institute has a structured mechanism for career guidance and placement for the students. Training and placement officer reports the principal. From each department, one faculty member co-ordinates the activities related to training and placement. Departmental training and placement coordinator reports to training and placement officer and respective HOD.

Tree Diagram – Training & Placement Department



Sr. No.	Department Name	% of Students Placed/Qualified out of eligible			
		2013-14	2014-15	2015-2016	2016-17 to date
1	Chemical	10	13.33	37.83	8.33
2	Civil	56.52	71.42	10.52	12.5
3	Computer	37.5	62.5	18.18	85.29
4	EXTC	22.00	22.22	53.84	96.55
5	Mechanical	93.02	47.69	27.77	17.39
	TOTAL	44.23	40.47	30.00	47.18

List of the Employers			
SR.NO.	Company Name	SR.NO.	Company Name
1	Gharda Chemical Ltd.	23	Privi Organics Ltd., Mahad
2	Vinati Organics	24	Pentokey Organic Ltd, Lote
3	Bharti Shipyard ltd.	25	Puranic Builders, Thane
4	Agnice Fire Protection Ltd	33	Gallop Constructions, Pune
5	J K Files India Ltd Chiplun	34	Paladian Networks
6	L & T Infotech	35	Polaris
7	Persistant, Pune	36	TeamLease, Mumbai
8	GSRF, Lote	37	Varrroc Engineering Pvt. Ltd, Maval, Pune.
9	Ritcher Themis Medicare Pvt Ltd, Vapi	38	Tata Communications Ltd., Bandra, Mumbai.
10	Arti Drugs Vapi	39	Amazon India
11	Force Motors, Pune	40	Orient Technologies Pvt. Ltd.
12	Mastek Ltd, Mumbai	41	Maharashtra Steel Ltd.
13	Exceptionaire technologies	42	J K Talabot Ltd.
14	Hindustan Unilever Ltd.	43	Flextronics Industries Ltd.
15	Duflon Industries Pvt. Ltd, Mahad	44	Kansai Nerolac Ltd, Lote
16	Arvind Mechanical & Electrical Engineers Pvt. Ltd, Mumbai	45	Posco Maharashta Steel Pvt. Ltd., Raigad
17	Yashaswi Institute of Technology	46	Gemini Valves &Pumps Pvt. Ltd, Pune

18	Romax Solutions, Pune	47	Johnson Controls, Pune
19	Reliance Jio, Mumbai	48	FTR Procon Pvt. Ltd., Mumbai
20	Marquis Technology Pvt. Ltd., Mahape, Navi Mumbai	49	Kinetic Taigene Electrical Co. Pvt. Ltd.
21	Tata Teleservices Ltd	50	TRIGENT ,Bangalore
22	Gammon India Ltd., Mumbai	51	Paramatrix Software Tech., Mumbai
26	Aegis Ltd., Ahamadabad	52	Prototech Solutions, Pune
27	Just Disl, Pune	53	Probus Software, Pune
28	Nainko Exim Pvt. Ltd., Pune	54	Xentho Software, mumbai
29	Asahi India Glass Ltd.	55	Merce Tech., Mumbai
30	Sai Infocom Solution, Nashik	56	Live Health, Pune
31	KadeKomp Systems, Pune	57	CMS IT services, Mumbai
32	PEOL Tech., Mumbai	58	Saketh Exim Pvt. Ltd.

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Institute has constituted student grievance redressal cell. The details are as follows:

Sr. No.	Name of Staff	Department	Designation
1	Prof. Iltapawar T. L.	EXTC	Chairperson
2	Prof. Gajmal K.M.	Computer	Member
3	Mrs. Kokaje M. M.	EXTC	Member
4	Sawant Gauresh G.	FE	Students Representative
5	Bapat Bhakti	Computer	Students Representative

Grievances reported and redressed during the last four years:

Year	Grievances reported	Grievances redressed
2016-17 to date	0	0
2015-16	01	01
2014-15	01	01
2013-14	01	01
2012-13	Nil	Nil

The committee collects the complaints from students and discuss with the authorities for solving them. Institute has kept suggestion boxes at various locations to collect the complaints/suggestions.

Suggestion Box:

Institute has placed suggestion boxes at various places so that stake holders can put their comments, suggestions, and requests to the authorities. Suggestions, comments and feedback given on plain paper provide greater opportunity to serve stake holders better.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

The institute has dedicated Women Development Cell (WDC) and Internal Complaint Committee. The details are given below:

a) Women Development Cell

Sr. No	Name of the Staff	Department	Designation
1	Dr. Joshi P.S.	General Administration	Principal – ex officio President
2	Prof. Mrs. Gajmal K.M.	Computer Engineering	Convener
3	Smt. Sumati Jambhekar	Member from NGO-Kowyas	Member
4	Prof. Mrs. Kolge V.S.	EXTC Engineering	Member
5	Prof. Ms. Sonawane S.	Chemical Engineering	Member
6	Mr. Thakur A.N.	General Administration	Member
7	Mrs. Mhatre U.A.	General Administration	Member
8	Mrs. Kokaje M.M.	EXTC Engineering	Member
9	Prof. Khalkar V.R.	Mechanical Engineering	Member
10	Ms. Bhakti. B. Bapat	Student Representative SE COMP	Member

b) Internal Complaint Committee

Sr. No	Name of the Staff	Department	Designation
1	Prof. Mrs. Kolge V.S.	EXTC Engineering	Chairperson
2	Smt. Sumati Jambhekar	Member from NGO-Kowyas	Member
3	Prof. Ms. Hujare R.I.	Civil Engineering	Member
4	Dr. Gharat S.H.	Chemical Engineering	Member
5	Prof. Ms. Mhetre P.S.	ASH	Member
6	Prof. Mrs. Ghadge S.R.	ASH	Member

7	Mr. Thakur A.N.	General Administration	Member
8	Mrs. Guhagarkar S.S.	General Administration	Member
9	Ms. Chavan Mayuri Ramkrishna	Student girl representative	Member

Duties and Responsibilities of WDC Committee:

- 1) To prevent sexual harassment.
- 2) To promote the general well being of female students, teaching & non-teaching women staff of the college.
- 3) To process on sexual harassment complaints from any person and to take suitable action in the matter. To sets out certain modes in these directions.
- 4) To insure security of female students, teaching & non-teaching women's staff of the college.
- 5) To take preventive step in the matter of gender discrimination and to provide appropriate working condition in respect of work, leisure health, and hygiene.
- 6) To depute members of WDC to attend and participate in the workshops and training programs that may be arranged by university cell.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Institute has anti ragging committee. The details of committee are as follows:

Sr. No.	Name	Designation	Mobile Number
1	Dr. Pramod S. Joshi	Principal & Chairperson	9158779250
2	Prof. Munghate S. C.	Co-Chairperson	9422152788
3	Prof. Gajmal K. M.	Member Secretary	9850691868
4	Mr. Anil Bhosale	Representative - Civil	9403145977
5	Mr. Kakade B. H.	Representative - Police	8888749872
6	Mr. Sadvilkar A. P.	Representative- Parents	9096743803
7	Mr. Ambre S. M.	Representative - Local Media	9921879982
8	Prof. Borade J. G.	Representative-Female	7350998144
9	Mrs. Sadvilkar S. N.	Counsellor	9673337821
10	Mr. Prashant Patwardhan	Representative - NGO	9422052132
11	Prof. Gadre M. S.	Representative - Faculty member	9422631677
12	Mrs. Ghadge S. R.	Representative – Non-Teaching Staff	9881493365

13	Pawar Jyoti	Representative - Students belonging to Jr. category	9545447643
14	Sawant Gauresh G.	Representative - Students belonging to Jr. category	9405269525
15	Bapat Bhakti	Representative - Students belonging to Sr. category	7066839524
16	Nikam Akshay	Representative - Students belonging to Sr. category	9545355106
17	Mr. Thakur A. N.	Non-teaching staff	9821776546
18	Mr. Prabhudesai S. M.	Non-teaching staff	9420153837

Instances of ragging reported during the last four years and action taken

Till date, no incident of ragging of any kind has been reported in the college.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

Following are the welfare schemes made available to students by institute:

- As per the social and tribal welfare department government of Maharashtra backward class category students SC/ST/VJDT/NT(A)/NT(B)/NT(C)/NT(D)/SBC/OBC/EBC/PTC/STC scholarship and free ship are provided to the extent prescribe by the regulatory body.
- Students are covered under Amartya Shiksha Yojana and Student accident policy and other welfares and scholarship as per the University norms.
- GIT merit scholarship, Dr. P. S. Ramanathan Endowment Scholarship, Smt. Nirmala Damodar Karandikar Scholarship, Shridev Bhargavdev Scholarship.
- Merit cum Means Scholarship for minority students.
- Hostel fee-waiver scheme, Entry Level Scholarship for Meritorious students.
- **Learn and Earn:** Institute offers Earn and learn scheme to the economically weaker students.
- **Tuition Fee Waiver Scheme (TFWS):** As per the AICTE norms
- **Prime Minister Special Scholarship:** Scheme for J and K students
- **Medical centre:** Institute provides first level medical attention to cater the needs of the students by providing expert attention by experienced and qualified team of Doctors, Nurse and Pharmacist. It has good quality of medical store which meets the requirements of emergency as well as general medicine at subsidized rate required by the students as prescribed by GIT Medical officer. Emergency medical care and first-

aid is available in the campus with one Medical Practitioner. General medicines are made available in the centre. First-aid boxes with all accessories are kept in all laboratories and other strategic locations. An Ambulance with all facilities is available in the college campus for emergency services.

- **Consumer co-operative store:** Consumer co-operative store facility is available in the campus at reasonable rates.

5.1.14 Does the institution have a registered Alumni Association? If ‘yes’, what are its activities and major contributions for institutional, academic and infrastructure development?

Institute has registered Alumni Association since Academic Year 2015-16. It is registered with Registrar of Societies, Ratnagiri bearing registration number Maharashtra/5523/Ratnagiri dated 16/07/2015. Alumni association looks after conducting convocation, alumni meet, alumni feedback, alumni expert seminar, meet the alumni programme.

The alumni feedback is utilized in upgrading the infrastructure facilities to improve teaching-learning processes, to improve training and placement activities, to improve admissions in terms of quality, to generate awareness in students regarding recent trends in industries.

5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlights the trends observed.

Student Progression	2013-14	2014-15	2015-16	2016-17 to date
UG to PG	5.58	4.84	2.26	-
Employed				
• Campus selection	0	0	8.16	47.18
• Other than campus selection	44.23	40.47	30.00	-

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Branch	Percentage of Passing			
	2012-13	2013-14	2014-15	2015-16
Chemical Engineering	87.24	77.91	90	91.42
Civil Engineering	NA	95.91	100	95.35
Computer Engineering	87.1	95	95.74	100
Electronics and Telecommunication	91.8	92	92.53	95.71
Mechanical Engineering	61.54	87.18	81.71	94.44

Branch	Comparison with nearby Institutes for Academic Year 2014-15 Percentage of Passing		
	GIT, Lavel	RSCOE, Pedhambe	
Computer Engineering	95.74	96	-
Electronics and Telecommunication	92.53	91	-
Mechanical Engineering	81.71	87	-
Branch	GIT, Lavel	FAMT, Ratnagiri	
Chemical Engineering	90	91.42	-
Branch	GIT, Lavel	AIKTC, Panvel	MITM, Oras
Civil Engineering	100	100	100

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

- Training and placement department conducts different training programs to enhance employability of the students.
- Institute has structured research committee with the objective to develop research environment in the institute and motivate faculty and students to get actively involved in research projects.

- Students are encouraged to take social issues as mini and major projects.
- Institute offers coaching for GATE.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

The students, who are academically weak and on the verge of drop out are identified by analysing the academic performance. The academic performances of these students are communicated with the parents and they are called for the discussion with class teacher and HOD. These students are properly mentored and the problems related to studies are solved by guiding them in weaker subjects. Special classes are organised based on need of the student.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

a) Sports and Games:

Indoor and outdoor sports and games facilities are available in institute. Also Institute organises annual sports every year in the month of February. Details are as follows:

- 1) **Outdoor sports/games:** Cricket, Box-Cricket, Kho-Kho, Kabaddi, Foot Ball, Langadi, Lagori and Dodge Ball.
- 2) **Indoor sports/games:** Table Tennis, Badminton, Chess and Carrom.
- 3) **Athletic events:** Discus Throw, Shot Put, Long Jump, High Jump, Batten relay.

Details of participation are as follows:

Annual Sport Boys

Year	Event	Winner	Runner up	No. Of Team/Participants
2016-17	Cricket	BE.Mech	SE/TEComp	16 X 16=256
	Football	BE Civil	FE.C- Div	16 X 16=256
	Kabaddi	BE.Mech	TE.Chem	16 X 12=192
	Kho-Kho	BE.Mech	TE.Mech	16 X 16=256
	Volley Ball	TE.Mech	BE Civil	12 X 12=144
	Carrom Single	Chem	Civil	90
	Carrom Double	Mech	E & TC	40
	Badminton Single	FE	TE Mech	60
	Badminton Doubles	Mech	Mech	35
	Table Tennis Single	TE Civil	BE Civil	70

	Table Tennis Double	Civil	Civil	30
	Chess	TE Mech	BE Chem	25
	Shot Put	Chem	E & TC	25
	Batten Relay	Civil	Chem	40
	Long Jump	FE	Chem	30
2015-16	Cricket	TE CHEM	BE CHEM	16 X 16=256
	Football	IT	TE MECH	16 X 16=256
	Kabaddi	BE CIVIL	TE MECH	16 X 12=192
	Kho-Kho	SE MECH	TE MECH	16 X 16=256
	Volley Ball	BE MECH	BE CHEM	12 X 12=144
	Carrom Single	BE CIVIL	TE EXTC	90
	Badminton Single	BE MECH	SE CIVIL	60
	Badminton Doubles	BE MECH/ SE MECH	TE MECH TE MECH	35
	Table Tennis Single	SE MECH	SE MECH	68
	Chess	BE MECH	BE MECH	25
2014-15	Cricket	BE CIVIL	SE CHEM	16 X 16=256
	Football	SE MECH	SE CIVIL	16 X 16=256
	Kabaddi	TE CIVIL	SE EXTC	16 X 12=192
	Kho-Kho	BE MECH	BE CIVIL	16 X 16=256
	Volley Ball	TE MECH	SE MECH	12 X 12=144
	Carrom Single	TE CHEM	BE MECH	53
	Carrom Doubles	BE CHEM/ TE CHEM	BE MECH/ BE MECH	32

	Badminton Single	BE CIVIL	TE MECH	46
	Badminton Doubles	TE CHEM/ BE CHEM	BE CIVIL/ TE CIVIL	38
	Table Tennis Single	BE CIVIL	SE CHEM	56
	Table Tennis Doubles	SE CHEM/ BE CHEM	BE CIVIL/ TE CIVIL	34
	Chess	TE MECH	TE CHEM	16
2013-14	Cricket	BE EXTC	TE CIVIL	16 X 16=256
	Football	BE CHEM	TE CIVIL	16 X 16=256
	Kabaddi	SE CIVIL	BE CHEM	16 X 12=192
	Kho-Kho	TE CHEM	SE MECH	16 X 16=256
	Volley Ball	BE IT	SE CHEM	12 X 12=144
	Carrom Single	BE MECH	BE MECH	54
	Carrom Doubles	TE CHEM/ SE CHEM	BE MECH/ BE MECH	36
	Badminton Single	TE EXTC	TE CIVIL	46
	Table Tennis Single	TE CIVIL	BE EXTC	34
	Table Tennis Doubles	TE CIVIL/ TE CIVIL	BE EXTC/ BE EXTC	32
	Chess	FE	SE CHEM	20
2012-13	Cricket	BE CHEM	TE CIVIL	16 X 16=256
	Football	BE MECH	BE COMP	16 X 16=256
	Kabaddi	BE IT	BE CHEM	16 X 12=192
	Kho-Kho	TE	SE MECH	16 X 16=256

		CHEM		
	Volley Ball	BE MECH	TE IT	12 X 12=144
	Carrom Single	TE COMP	TE MECH	42
	CarromDoubles	BE MECH/ BE MECH	TE EXTC/ TE EXTC	36
	Badminton Single	TE EXTC	BE CHEM	22
	BadmintonDoubles	BE CHEM/ SE CHEM	TE EXTC/ TE EXTC	18
	Table Tennis Single	TE CIVIL	BE COMP	52
	Table Tennis Doubles	TE CHEM/ CHEM	BE COMP/ BE COMP	40
	Chess	FE	BE IT	22

Annual Sport Girls

Year	Event	Winner	Runner up	Remark
2016-17	Cricket	CIVIL	COMP/MECH	5X12=60
	Dodgeball	CIVIL	COMP/MECH	5X12=60
	Kabaddi	COMP/MECH	CIVIL	5X10=50
	Kho-Kho	COMP/MECH	EXTC	5X13=65
	Volley Ball	CIVIL	CHEM	5X12=60
	Carrom Single	CIVIL	CHEM	25
	CarromDoubles	CIVIL	CHEM	20
	Badminton Single	CIVIL/	CIVIL	30
	BadmintonDoubles	CIVIL	CIVIL	30
	Chess	EXTC	CIVIL	16
	Table Tennis Single	CIVIL	CIVIL	22
	Table Tennis Doubles	CIVIL	CIVIL	18
	Shot Put	CIVIL	CHEM	10
	Batten Relay	CIVIL	COMP	15
	Long Jump	CIVIL	CHEM	12
2015-16	Cricket	CIVIL	MECH	5X12=60
	Dodgeball	CHEM	MECH	5X12=60

	Kabaddi	CIVIL	EXTC	5X10=50
	Kho-Kho	COMP	EXTC	5X13=65
	Volley Ball	CHEM	CIVIL	5X12=60
	Carrom Single	CIVIL	COMP	25
	CarromDoubles	CIVIL	CIVIL	20
	Badminton Single	CIVIL/	CIVIL	30
	BadmintonDoubles	CIVIL	CIVIL	30
	Chess	COMP	EXTC	16
	Table Tennis Single	COMP	IT	22
	Table Tennis Doubles	CIVIL	COMP	18
2014-15	Cricket	COMP	CHEM	5X12=60
	Lagori	COMP	EXTC	5X12=60
	Dodgeball	CHEM	MECH	5X10=50
	Kho-Kho	COMP	EXTC	5X13=65
	Volley Ball	CIVIL	COMP	5X12=60
	Carrom Single	EXTC	CIVIL	30
	CarromDoubles	FE/FE	COMP/CIVIL	16
	Badminton Single	COMP	IT	32
	BadmintonDoubles	CIVIL/CHEM	CIVIL/COMP	30
	Chess	EXTC	CIVIL	12
	Table Tennis Single	IT	COMP	24
	Table Tennis Doubles	IT/IT	COMP/COMP	18
2013-14	Cricket	COMP	CIVIL/MECH	5X12=60
	Dodgeball	CHEM	COMP	5X12=60
	Kabaddi	MECH/CIVIL	CHEM	5X10=50
	Kho-Kho	COMP	CHEM	5X13=65
	Volley Ball	COMP	IT	5X12=60
	Carrom Single	EXTC	CIVIL	26
	Carrom Doubles	EXTC/EXIC	CIVIL/CIVIL	24
	Badminton Single	CIVIL	MECH	22
	Badminton Doubles	CIVIL/CIVIL	COMP/COMP	18
	Chess	FE	CIVIL	16
	Table Tennis Single	EXTC	COMP	28
	Table Tennis Doubles	EXTC/EXTC	COMP/COMP	20
2012-13	Cricket	MECH + CIVIL	IT	5X12=60
	Dodgeball	MECH	COMP	5X12=60
	Kabaddi	MECH/CIVIL	CHEM	5X10=50
	Kho-Kho	COMP	CHEM	5X13=65

	Volley Ball	EXTC	IT	5X12=60
	Carrom Single	EXTC	COMP	28
	Carrom Doubles	COMP/COMP	IT/IT	26
	Badminton Single	MECH	COMP	23
	Badminton Doubles	MECH/MECH	CIVIL/CIVIL	18
	Chess	COMP	EXTC	12
	Table Tennis Single	EXTC	COMP	22
	Table Tennis Doubles	EXTC/EXTC	COMP/COMP	18

University Level Participation:

In the academic year 2016-17, GIT has hosted the university intercollegiate volleyball tournament

- The event was organized on 18/10/2016
- Total 16 teams from different colleges (Zone-5) have participated.

Sr.No.	Event Name	Place	2012-13	2013-14	2014-15	2015-16	2016-17
1	Kabaddi	University Level	---	---	12	12	12
2	volleyball		12	12	12	12	12
3	Football		16	13	16	16	16
4	Kho-Kho		15	---	---	---	---
5	Chess		04	04	---	---	04
6	Carrom		---	04	05	04	---
7	Badminton		---	---	04	---	---
Total Participation from Institute			47	33	49	44	44

b) Cultural Activity:

The institute organizes cultural activity named as *Synergy* every year in the month of February to promote and cultivate various skills, competencies and foster holistic development. The event covers the activity like Funfair, Drama, Dance, Antakshari, Singing, Orchestra, Anchoring, Quiz, Debate, Group Discussion, Swar-Gandha, Art Exhibition, Funny games, One minute show, Fashion Show etc.

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

Achievements of students in sports are as follows:

Sr. No.	Event Name	Place	2012-13	2013-14	2014-15	2015-16	2016-17
1	Kabaddi	University Level Zone - FIVE	---	---	Participated	Semi final runner up	Participate
2	volleyball	University Level	Participated	Participated	Participated	Semi final runner up	Quarter Final
3	Football	University Level	Participated	Participated	Participated	Participated	Semi Final
4	Kho-Kho	University Level	Participated	---	---	---	----
5	Chess	University Level	1 st rank	Participated	---	---	Participated
6	Carrom	University Level	---	Participated	Participated	Participated	-----
7	Badminton	University Level	---	---	Participated	---	-----

The major achievements of the students in Co-curricular Activities are listed below:

Sr. No.	Name of students	Department	Event Name	Venue	Rank
1	1. Naik Abhishek 2. Singh Akash 3. Vishwakarma Vivek 4. Yadav Sandeep	Mechanical	Project Presentation in national level technical symposium "SCINTILLA 2K14" in 2014	RM CET, Ambav	2

2	1. Lad Sachin 2. Mhatre Virendra 3. Patil Pooja R	Mechanical	National level technical event “AVALANCHE 2K14” on 10 th and 11 th April 2014	BATU, Lonere	1
3	1. Khandke Sarvesh 2. Kolambkar Sahadev 3. Kamble Sumit 4. Mhamunkar Sanket	Mechanical	National level project competition “Tantragyan” held on 7 th April 2015	LTCOE, Navi Mumbai	2
4	1. Gaikwad Subodh 2. Chalke Suyash	Mechanical	Project presentation at national level technical event	RSCOE, Pedhambe.	2
	1. Pandey Nitin Kumar 2. Adale Yuvraj	Chemical	Paper presentation at SCHEMCON 2015	MIT Alandi, Pune.	3
	1. Singhal Samit 2. Hemardya Varun 3. Tiwari Love	Chemical	Technical Paper presentation (Session-I) CHEMERGEN CE-2013	Thadomal Shahani Engineering College, Bandra	2
	1. Singhal Samit	Chemical	Technical Group Discussion CHEMERGEN CE-2013	Thadomal Shahani Engineering College, Bandra	2
	1. Gaibee Aakif 2. Gharat Bhagwan 3. Gudekar Namita	Chemical	Technical Paper presentation CHEMERGEN CE-2013	Thadomal Shahani Engineering College, Bandra	2
	1. Rana Pravati 2. Shukla Deepak	Chemical	Technical Paper presentation CHEMERGEN CE-2013	Thadomal Shahani Engineering College, Bandra	3

	1. Darekar Ashutosh 2. Sakarkar Akib	Civil	Survey of given site, field Expo , held in 2012-13	VPMMPCOE, Velneshwar	1
	1. Patil Ganesh 2. Pawar Rushikesh	Civil	Survey of given site, field Expo , held in 2012-13	VPMMPCOE, Velneshwar	2

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

Institute collects the feedback from students, alumni and employers/ industry time to time. The information received through feedback is used to upgrade the quality of teaching and learning process. Feedback from the alumni is collected during alumni visit. Employer's feedback is collected during campus drive, guest lectures and workshops.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

Every year, institute publishes magazine "*GITian*" in which students' literature such as poems, essay, articles, cartoons, interviews, short stories, achievements and other related information. Also college conducts technical event called "*SHODH*" in which students are encouraged to present their technical papers, posters and projects. Departmental level technical events are organised by students association under different banners.

Year	List of Publications	Number of Participants
2015-16	"GITian" Magazine	10
	Book Publications ("Anapekshit")	1
	Poster presentation	59
	Art gallery	8
2014-15	"GITian" Magazine	25
	Poster presentation	92
2013-14	"GITian" Magazine	25
	Poster presentation	89
2012-13	"GITian" Magazine	38
	Poster presentation	24

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

The Institute has Student Representative Committee (SRC) in which two students representative (one boy and one girl) from each class are selected by election process as per state government regulation. Among these elected class representatives General Secretary, Ladies representative, Sport secretary, Cultural representative, “Shodh” co-ordinators, NSS representative are selected for the smooth co-ordination of all the activities.

Following is the SRC for academic year 2016-17

Sr. No	Name of student	Class	Post
1	Prashant Sawant	B.E.Mechanical	General Secretary- Boys
2	Vrushali Kadam	B.E.Comp	General Secretary- Girls
3	Mitesh Bhanushali	B.E.Chemical	Cultural Secretary-Boys
4	Swapnali Machekar	B.E.Civil	Cultural Secretary-Girls
5	Siddesh Patil	B.E.I.T	Sports Secretary-Boys
6	Preeti Umasare	B.E.E&T.C	Sports Secretary-Girls

SRC MEMBERS LIST 2016-17

Sr. No.	Name of Student	Class/ Division	Sr. No.	Name of Student	Class/ Division
1	Vishal Joshi	B.E. Chemical	16	Kishori Lambade	T.E. E&TC
2	Vilas Khetale	B.E.Mech	17	Meghna Mandavkar	T.E.Mech
3	Siddesh Patil	B.E.I.T.	18	Ankita Gole	T.E.Comp
4	Vikrant Bhosale	B.E.Civil	19	Aditya Kelkar	T.E.Chemical
5	Abhinav Chile	B.E.E&T.C	20	Sanchit Mokal	T.E.I.T.
6	Bhusan Rajput	B.E.Computer	21	Aditya Kadam	T.E.Civil
7	Arunima Kaimal	B.E.Chemical	22	Chaitanya Desai	T.E.E&TC
8	Ankita Pawar	B.E. Mech	23	Swapnil Patil	T.E.Mech
9	Karuna More	B.E. I.T	24	Uttam Khandekar	T.E.Comp
10	Swapnali Manchekar	B.E.Civil	25	Arsheed Surve	S.E.Chem
11	Priti	B.E.E&TC	26	Nikhil	S.E.Civil

	Umasasre			Batgeri	
12	Vrushali Kadam	B.E.Comp	27	Viraj Mohite	S.E.E&TC
13	Isha Sharma	T.E.Chemical	28	Lavesh Navale	S.E.Mech
14	Prachi Desai	T.E.I.T	29	Indrakumar Vanjare	S.E.Comp
15	Kajal Bhandawale	T.E.Civil	30	Krutika Wanmali	S.E.Chem

Along with this every department has student associations to organize and manage various departmental activities.

Activities

- The Students' Council organizes many activities like national or university level technical symposium like *SHODH* every year to motivate students to participate in technical and non technical events. It also organizes the college level event annual gathering *Synergy* each year which include, cultural and sports event.
- Every year Institute organizes Teachers' Day and Engineers' Day.

Cultural event includes:

- Art exhibition
- Essay competition
- Quiz competition
- Fishponds
- Singing
- Mimicry
- Dance
- Drama
- Fashion show
- Fancy dress competition

Sport event includes:

- Volley ball (M/W)
- Cricket (M/W),
- Kabaddi (M/W),
- Kho-kho (M/W),
- Foot ball (M),
- Table tennis (M/W),
- Chess (M/W)
- Carom (M/W)
- Athletics (M/W)

Funding

Students' bodies of respective department raise funds from nearby industry for these events. Also institute provides funds as and when required.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

The student representatives are members in various committees along with faculty members.

- GIT Alumni Association
- SPACE (Students Pioneer Association of Chemical Engineering)
- IMAGE (Innovative Mechanical Association of Gritty Engineers)
- ASCEE (Association of Students of Computer Engineering for Excellence)
- PULSE (Pioneer Union for Lightning the Science of Electronics & Telecommunication)
- ISTECh (Indian Society for Technical Education – Student Chapter)
- NSS(National Service Scheme)

Academic and administrative bodies that have student representatives:

1. **Women's Development Cell 2015-16:** As mentioned in 5.1.11
2. **Anti Ragging committee:** As mentioned in 5.1.12
3. **Grievance redressal committee:** As mentioned in 5.1.10
4. **SHODH-2017 Committee**

Sr.No	Name of Coordinator	Department	Designation
1	Prof.Galande N. D.	Chemical	Overall Coordinator
2	Prof. Kamble V. D.	Civil	Faculty Coordinator
3	Prof.Teli S. M.	Chemical	Faculty Coordinator
4	Prof. Iltapawar T. L.	EXTC	Faculty Coordinator
5	Prof. Jadhav P. N.	Mechanical	Faculty Coordinator
6	Prof. Borade J. G.	Computer	Faculty Coordinator
7	Prof. Mhetre P. S.	ASH	Faculty Coordinator
8	Avadan Prasad	Chemical	Overall Student Co-ordinator
9	Chouhan Vaishali	Civil	Overall Student Co-ordinator
10	Pawar Abhishek	Civil	T.E Student representative
11	Kadam Rushikesh	Chemical	B.E Student representative
12	Vavekar Purva	EXTC	B.E Student representative
13	Parkar Muzammil	Mechanical	B.E Student representative
14	Shetty Rohit	Computer	T.E Student representative

15	Oltikar Harshal	ASH	F.E Student representative

E-learning Committee:

Sr. No	Name of the Staff	Department	Designation
1	Prof. Danawade B.A.	Mechanical	Chairperson
2	Prof. Tambe A. M. S.	ASH	Member
3	Prof. Galande N.D.	Chemical	Member
4	Prof. Patil P. M.	Mechanical	Member
5	Prof. Mrs. Rane V.N.	Computer	Member
6	Prof. Kamble V.T.	EXTC	Member
7	Prof. Jadhav V.S.	Civil	Member
8	Mr. Salunkhe A. S.	Computer	Member Secretary
9	Mr. Shirgaonkar V. V.	General Admin	Member
10	Mr. Kubade G. D.	General Admin	Member
11	Mr. Patel B. N.	Library	Member
12	Kangane Roshan	EXTC	Student Representative Boys
13	Lambade Kishori	EXTC	Student Representative Girls

Website Management Committee

Sr. No	Name of the Staff	Department	Designation
1	Prof. Munghate S.C.	EXTC	Chairperson
2	Prof. Mhetre P.S.	ASH	Member
3	Prof. Sukhdev P.R.	Chemical	Member
4	Prof. Phanse A. V.	Mechanical	Member
5	Prof. Pawar R.B.	Computer	Member
6	Prof. Gujarathi S.S.	Civil	Member
7	Mr. Salunkhe A. S.	Computer	Member Secretary
8	Shinde Prashant	Computer	Student Representative
9	Tembe Priyanka	Computer	Student Representative

Library Committee:

Sr. No	Name of the Staff	Department	Designation
1	Dr. Joshi P.S.	General Admin	Principal & Chairperson
2	Mr. Patel B.N.	Library	Member Secretary
3	Prof. Jadhav V.S.	Civil	Member
4	Prof. Londhe D. N	Computer	Member
5	Prof. Kamble V. T.	EXTC	Member
6	Mr. JoshiS.S.	General Admin	Member
7	Umaranikar Ruturaj	Mechanical	Student Representative
8	Chakranarayan Priyanka	EXTC	Student Representative

Manthan Committee

Sr. No.	Name of the Staff	Department	Designation
1	Prof. Londhe D.N.	Computer	Chairperson
2	Prof. Ayare S.D.	Chemical	Member
3	Prof. Khalkar V.R.	Mechanical	Member
4	Prof. Balpande M.R.	Computer	Member
5	HambirSanket	Computer	Student Representative
6	DhuriPragati	Computer	Student Representative
7	Shetty Rohit	Computer	Student Representative

MaitriSangh Committee:

Sr. No.	Name of the Staff	Department	Designation
1	Prof. Mohite M.A.	EXTC	Chairperson
2	Prof. Khandke M.A.	Computer	Member
3	Prof. Pawar R.B.	Computer	Member
4	Prof. Warak P.L.	EXTC	Member
5	Chavan Pratik R.	EXTC	Student Representative
6	Ambre Swapnil D.	EXTC	Student Representative
7	Khedekar Shivani S.	EXTC	Student Representative
8	Khot Amruta S.	EXTC	Student Representative

Nature Club Committee:

Sr. No.	Name of the Staff	Department	Designation
1	Prof. Ayare S.D.	Chemical	Chairperson
2	Mr. Patel B.N.	Library	Member
3	Prof. Londhe D.N.	Computer	Member
4	Prof. Vishwakarma S.K.	Chemical	Member
5	ChavanAbhijit	Chemical	Student Representative
6	ShetyeSavani	Computer	Student Representative

Canteen Committee:

Sr. No.	Name of the Staff	Department	Designation
1	Prof. Muchande S.K.	EXTC	Chairperson
2	Mr. Thakur A.N.	General Admin	Member
3	Mr. Sawant S.S.	Store & Purchase	Member
4	Mr. Phepade S.S.	General Admin	Member
5	Mr. Joshi S.S.	General Admin	Member
6	Badithe Akshay	FE	Student Representative
7	Kadam Priyanka	Civil	Student Representative

Gymkhana and Gymnasium Committee:

Sr. No	Name of the Staff	Department	Designation
1	Prof. Ghadge M.D.	Civil	Chairperson
2	Prof. Shinde C.S.	ASH	Member
3	Dr. Patil P.N.	Chemical	Member
4	Prof. Patil P. M.	Mechanical	Member
5	Prof. Modani D.G.	Computer	Member
6	Prof. Pandharkame S.N.	EXTC	Member
7	Prof. Vishwakarma S.K.	Chemical	Member
8	Mr. Bole S.G.	General Admin	Member Secretary
9	Palkar Lawoo P.	Mechanical	Student Representative
10	Umasare Priti	EXTC	Student Representative

Alumni Association Committee:

Sr. No.	Name of the Staff	Department	Designation
1	Prof. Rane V.N.	Computer	Chairperson
2	Prof. Sutar S.V.	Chemical	Member
3	Prof. Jadhav P.N.	Mechanical	Member
4	Prof. Latkar S.D.	EXTC	Member
5	Prof. Kamble V.D.	Civil	Member
6	More Rahul	Computer	Student Representative
7	VavekarPurva	EXTC	Student Representative

Cultural Committee:

Sr. No.	Name of the Staff	Department	Designation
1	Prof. Jarali O.A.	Mechanical	Chairperson
2	Prof. Nalwala R. G.	Chemical	Member
3	Prof. Bhosale A. A.	Computer	Member
4	Prof. Phatak S. S.	ASH	Member
5	Prof. Acharya J. Y.	Mechanical	Member
6	Prof. Oak P.V.	EXTC	Member
7	Prof. Gujarathi S. S.	Civil	Member
8	BhanushaliMitesh	Chemical	Student Representative
9	ManchekarSwapnali	Civil	Student Representative
10	Sawant Prashant	Mechanical	Student Representative
11	Sharma Isha	Chemical	Student Representative
12	KatreMrunmayee	Civil	Student Representative

Discipline Committee:

Sr. No.	Name of the Staff	Department	Designation
1	Prof. Swami v. M.	Mech	Chairperson
1	Mr. Patel B. N.	Library	Member
2	Prof. Dhawale S. K.	ASH	Member
3	Prof. Tekade S. P.	Chem	Member
4	Prof. Ms. Pawaskar P. P.	Mech	Member
5	Prof. Balpande M. R.	Comp	Member
6	Prof. Pandharkame S. N.	E&TC	Member
7	Prof. Modani D. G.	Warden Boys hostel	Member
8	Prof. Ms. Sukhadeve P. R.	Warden girls hostel	Member
9	Mast. Patil PralayKumer	Student, BE Mech	Member

10	Mast. Shinde Nischit	Student, BE Mech	Member
11	Ms. Bhagane Sayali	Student, BE Civil	Member
12	Ms. Gune Harshada	Student, BE Civil	Member

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

The institute has Alumni Association Committee. The committee includes one overall faculty co-ordinator, one faculty from each department as a member and one student from each department. The committee organizes the alumni meet and takes the feedback from alumni. The committee communicates with Alumni through e-mail. At every Annual alumni meet, the contact information of alumna is updated. This data is shared with Training and Placement cell so as to exchange the information regarding placement and campus recruitment programmes.

Interaction with former faculty members is done by inviting them as resource person for seminars, workshops, guest lecture etc. Institute also invites them as delegates to participate in workshops/ conferences organized by institute time to time.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT**6.1 Institutional Vision and Leadership****6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution? Distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve institution? Traditions and value orientations, vision for the future, etc.?**

Gharda Foundation was formed in the year 1996, keeping in mind, especially rural development initiative. It is operating in a 30 villages, having population of around 60,000 at Ankaleshwar, Gujarat and at Lote Parshuram, Maharashtra.

Gharda Foundation operates with the principle of “Rural development through Self Development” and firmly believes in participatory approach and not one sided donations. With this objective, Gharda institute of Technology was started in the year 2007. The vision and mission statement of Gharda Foundation are as follows:

Vision of Gharda Foundation:

Self development through rural development

Mission of Gharda Foundation:

- Work in partnership with rural India to provide basic needs and education
- Empowering women and children to raise the standard of living

The team of social workers and community health volunteers is actively engaged in village development activities especially with focus on health, education and income generation.

Preventive health care and health education activities are in the form of reproductive and child care, sanitation, personal hygiene, adolescent education, school health, First Aid, AIDS awareness, de addiction, safe water etc. The significant and unique scheme which has proved successful is “Community Participated Drugs Revolving Scheme”.

As a part of area development and community awareness at village level activities are also conducted like water shed area development, Check Dams,

agricultural development, self help groups' formation, making aware about Panchayat Raj, rights and duties etc.

Gharda Medical Foundation is another NGO mainly working in the field of curative medicine through Gharda Hospital, Lote Parshuram. It is a highly subsidized 20 bedded secondary care hospital with qualified, trained and competent staff and all modern health care facilities under one roof. e.g. equipment ranging from X ray – ultrasound- autoanalyser- Elisa – cell counter to Laproscope – ophthalmic microscope – respirator – monitor and facilities ranging from minor surgery – delivery to intra ocular lens implant – trauma care – major surgery. It also has specialized set up to take care of Industrial Injuries, road traffic accidents and look after occupational health related issues. The hospital conducts free care for cataract surgery, family planning operations, vaccinations etc.

Gharda Foundation is actively supporting primary and secondary education by having its own Balwadis and supporting teaching programs for school going children and residential training program for 10th std. students along with question paper answering scheme and mobile library. For better infrastructure it has generously contributed to various schools for construction and repairs of schools buildings, sanitary blocks etc. The unique scheme is “School Area Development Program” which operates with the help of students and makes them earn while they work. As a part of education programme, the Gharda Institute of Technology was established in Konkan region with following vision and mission:

Vision of Institute:

To play a distinct role in transforming individuals into engineering professionals for betterment of society

Mission of Institute:

- Impart knowledge through relevant curricula
- Develop skills to apply knowledge to profession
- Create awareness and understanding of continuous learning

The college has been serving the society, especially the coastal region (Konkan region) in which the college is located for the last 9 years providing education rooted in values and the skills. The college is located in rural area and statistical evidence shows that bulk of the students drawn from rural area. As such, the broad vision and mission statement is implemented in this context. This can be considered as the major distinctive characteristic of the college. Our founder is playing a proactive role in the process of social reform needed for the 21st Century. The college has developed a culture of conducting student centric activities- co-curricular as well as extracurricular, which

encourages every student to participate in the activities, identifying their strengths and develop their potential. Vision and mission of the college are in consonance with the requirement of the region.

6.1.2 What is the role of top management and faculty in the design and implementation of its quality policy and plans?

College is governed by the Gharda Foundation. The foundation is registered as a charitable trust and lofty ideals enshrined in trust charter govern the quality policy. Principal and the faculty work together for the implementation of quality policy.

The management provides the roadmap and general guidelines for quality policy in order to create a conducive learning environment and preserve the ethos of academic excellence as envisage in Trust charter. Day to day implementation is done by the Local Managing Committee (LMC) consisting of representatives from management, teaching and non teaching staff along with the Principal. It acts under overall guidance of governing body. In short, broad policy is laid down by governing body and policy is translated into day to day practices by LMC for effective governance. The LMC guides in planning, monitoring and evaluating mechanisms regarding administrative and academic processes as per Maharashtra Universities Act, 1994.

The quality policy of the Institute can be deciphered from the Vision and Mission statements. For implementing the quality policy, an action plan is prepared collectively by the Principal and the Heads of Departments and actual implementation is done by IQAC which supervises the action plan/ specific roles assigned to various faculty members.

Review of performance indicators of quality (placement, result of students and effectiveness of grievance redressal system) is periodically taken by governing body and corrective measures of policy issues are taken. Faculty, in turn, redesigns and/or realigns the quality policy.

Role of the top management:

- Various Committees, numbering about thirty, are formed for effective governance and administration. All committees work under overall direction of Principal and Council of head of departments. Decisions in all areas are taken by the respective committees adhering to the action plan/ work plan.
- Adequate budgetary provision is given for the new infrastructure, maintenance and improvement of infrastructure, faculty recruitment and developments, teaching-learning process, research etc.

- The top management regularly interacts with the Principal to review the implementation process of the quality plans.
- Principal regularly takes overview of various academic functions, administrative functions and other functions ongoing in the entire organization. The top management has bestowed operational autonomy to the staff.
- The top management encourages the Principal and the faculty to visit renowned national and international institutes to develop their vision for quality policy.

Role of the Principal:

- The Principal is an active member in deciding the quality policy and making the action plans.
- The Principal leads the faculty, provides directions to the faculty and co-ordinates activities wherever necessary.
- The Principal strives to develop and ensure effective conduction of educational programs and promotes the improvement of teaching-learning in the college.
- The Principal takes initiative to develop the liaison with the eminent academicians, scientists, industries, professional bodies and renowned institutes which directly or indirectly helps in planning and implementing the quality policy.
- The Principal keeps himself updated about the Indian and global education scenario, research in education, industry and stake-holders expectations. He gives relevant feedback to the faculty and the students and motivates them to achieve quality in their fields.
- The Principal proposes new initiatives to top management to contribute to the quality policy.

Role of HoDs:

He shoulders responsibilities in the academic and administrative matters with following responsibilities:

- Plan, organize and monitor execution of the academic calendar.
- Monitor coverage of the syllabus.
- Observe and analyse faculty teaching and give necessary feedback to them for improving the effectiveness. Devise ways of improving the overall teaching effectiveness of the faculty and the quality of the courses in the department.
- Ensure departmental discipline of the students; punctuality in classes and other lectures and activities.
- Encourage and facilitate industry sponsored projects.
- Encouraging and facilitating younger faculty towards higher educational studies and to publish papers.

- Arrange Field Visits/Industrial Training and Guest Lectures by eminent personalities.
- Organize National seminar/conference in the department.
- Conduct department meetings regularly and also as per need for adequate interaction with the faculty and staff.
- Ensure that the departmental spaces and assets are maintained in good condition and beyond curriculum.
- Facilitate extra-curricular activities for students, faculty and staff for the overall growth of everybody and creating a team spirit.

Role of the faculty:

The faculty play a major role in the implementation of the quality policy.

- Faculty develop themselves as role models for the students. Senior faculty is a role model for the junior faculty. It is the faculty who embeds values in the education. Faculty continuously upgrade themselves by way of continuous learning.
- The faculty play a role broadly in three areas namely teaching, research and administrative activities like examination related work and programme related work. Faculty work in various committees formed by the Principal. Faculty co-operate with each other so that effective outcome is possible. All this supplements the quality policy and its implementation.
- The faculty develop quality measures for the evaluation of various processes.
- Faculty counsel the students about quality in various activities.
- Faculty take initiative to associate themselves with eminent research organizations, academicians, professional bodies and industries.

6.1.3 What is the involvement of the leadership in ensuring?

- The policy statements and action plans for fulfilment of the stated mission
- formulation of action plans for all operations and incorporation of the same into the institutional strategic plan
- Interaction with stakeholders
- Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders
- Reinforcing the culture of excellence
- Champion organizational change

The policy statement and action plans for fulfillment of the stated mission:

Principal in consultation with management develops the policy statements like Vision, Mission, Objectives and Quality policy for fulfillment of the requirements of academic excellence. LMC and IQAC make sure that the

policy statement and the action plans are aligned with the stated mission of the institute. The academic leadership, involving Principal and Heads of departments, are also involved in communicating and reviewing the policies, action plans and achievements from time to time through meetings with various stakeholders. The planning and review meets are held at various levels as per the pre-planned schedule.

Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan;

Every year action plans at various levels are developed based on university academic calendar. Institute develops academic action plan to deliver the requirements of academic calendar. The institute has developed a planning system. The academic calendar with all academic activities enlisted is shared with all stakeholders. The academic calendar helps in planning the departmental activities through departmental academic calendar and faculty teaching plans.

Review of the plan and the implementation of the same is done through Governing body/council and LMC meetings as follows:

- The Governing Council of the college meets at a regular interval to look after the budget, sanctions, R&D activities and strategies for institute development and expansion plans etc.
- The LMC meets regularly to review the academic, administrative and development activities.
- Departmental Advisory Boards meet twice in a year to review and make long term plan.

Interaction with stakeholders:

GIT has created several platforms for interacting with stake holders as follows:-

- Industry participates through industrial visits, implant trainings and recruitments.
- Training and Placement Cell and respective Departments communicate with the employers and collect feedback from them.
- The Institute maintains links with Alumni for getting necessary information on current issues and challenges in the industries.
- Parents' meet for keeping them updated regarding performance of their wards and the Parents feedback are recorded for taking necessary corrective actions.
- Students Representative Council actively participates in planning and implementation of co-curricular and extra-curricular activities.

- Students' counseling is conducted to identify their problems and resolve them. The institute has a mentor mentee scheme for ensuring preventive and quick action against complaints.

Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders

- Leadership is involved in need analysis of institute policy in respect of teaching learning, research. The stake holders consulted are students, alumni, industry, parents etc.
- The need for a particular policy focus is assessed by survey, opinion polls and data analysis of result, placement etc.
- Employer's feedback about the students placed in the preceding years is taken.
- Additional Training is given in the areas requiring improvement as suggested by the participating stakeholders.
- The Heads of the departments review the departmental progress for continuous improvement in consultation with the Principal and gives feedback which is taken in consideration while discussing policy issues in LMC and Governing Body.
- For acquiring research projects the institute encourages and supports by offering available facilities and incentives.

Reinforcing the culture of excellence

- The leadership is committed to reinforce the culture of excellence in all the aspects for providing a dynamic learning environment on the campus.
- Leadership insists on implementation of outcome based teaching process.
- Institute has schemes for appreciating the faculty and students for their achievements.
- Institute encourages and gives support to faculty members for attending/organizing workshops, conferences and seminars.

Involvement of the leadership in ensuring champion organizational change:

In a short span of time institute has emerged as leader in the Konkan region. This achievement of the institute is a result of involvement of the institute management, faculty, staff, industry, students. Institute is consistently producing good quality students who have emerged as torch bearer. Institutional results are improving; in some cases it exceeds even the performance of university. Every year, sizable numbers of students are getting university ranks.

Every year Management gives theme for students and faculty and ensures that sufficient funds are also deployed for implementation of the theme. Theme for 2015-16 was “Be innovative” and 2016-17 themes is “Continue learning”

6.1.2 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

- The review meetings are conducted periodically at various levels. In these meetings, policies and plans are decided and reviewed.
- The feedback on the academic and administrative activities from students and all stakeholders is taken regularly. It is analyzed, discussed and decisions are taken on various issues.
- Meetings of the various committees are conducted to monitor and evaluate activities in the respective areas.
- The Principal’s meetings with HODs are conducted every week to monitor all academic and students related activities.
- Faculty meetings are conducted in every department to convey plans, to review progress and to take corrective actions.
- Institute has implemented a documented process to assess attainment of programme outcomes. It includes direct assessment through examination activities and indirect assessment tools such as assessment rubrics and exit survey.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

- The members of the trust take active interest and get involved to management of the institute by way of deciding the academic as well as long term policy through the resolutions of trust meetings, governing body and LMC meetings.
- Heads of the departments are empowered for executing the policies in each department.
- The faculty members are nominated to be the members of institutions committees so that they can put forth their innovative ideas to achieve better results.
- Management and head of institution ensure that every staff has a clearly defined role with specific duties and responsibilities.
- This is communicated to the staff at the time of appointment by providing a copy of the rules and regulations and orientation programmes for new recruits.
- Under the leadership of the Principal, chairpersons of various committees and course co-ordinators are engaged in assigning, delegating, coordinating

and communicating responsibilities to the staff members as per the established system.

- The additional responsibilities are assigned to teachers based on their competence and interest.

6.1.6 How does the college groom leadership at various levels?

All the staff members are involved in all activities in the college and college administration is done in decentralised manner and usually decision making is done in democratic manner through various committees. The senior staff members are appointed as conveners of various committees and are given full autonomy in decision making and constitution of committees is made such that faculty at all levels and across departments made members. Various co-curricular and extracurricular activities are conducted through involvement of faculty and students. The college grooms leadership among the faculty members by giving them opportunity to work as head or member of various committees involved in academic, curricular and co-curricular activities.

Sr. No.	Committee/Activity	Coordinator/Chairman/ Co-Chairman	Dept.
1	Internal Quality Assurance Cell (Academic Committee)	Prof. M. A. Khandke- Co chairman	Computer
2	Accreditation (NBA, NAAC)	Prof. B. A. Danawade (NBA) , Prof. M. N. Lahane (NAAC)	Mechanical, ASH
3	Internal complaints committee	Prof. Kolge V. S, Co-chairman	E & TC
4	Students' Feed Back on faculty	Prof. S. P. Tekade	Chemical
5	Grievance Redressal Committee (Staff)	Prof. S. R. Khedekar	E & TC
6	Grievance Redressal Committee (Students)	Prof. T. L. Iltapawar	E & TC
7	Staff Welfare	Mr. Shembekar Dilip	General Administration
8	Computer Network	Mr. V. V. Shirgaonkar	General Administration
9	Hostel and Healthcare Boys' Hostel – Warden Girls' Hostel- Warden	Prof. S.C.Munghate Prof. S. V. Sutar Prof. P. R. Sukhadeve	E & TC Chemical Chemical

10	Annual Magazine	Mr. B. N. Patel	Library
11	Training and placement office committee	Prof. S. S. Magdum	T & P
12	Disaster Management Committee	Prof. S. M. Teli	Chemical
13	Anti-ragging Committee	Prof. S.C. Munghate, co chairman	E & TC
14	Women Development Committee	Prof. K.M.Gajmal, Co-chairman	Computer
15	Extension Activity Committee	Prof. A. K. Mangore	Computer
16	Examination committee	Prof. M. S. Gadre	E & TC
17	Student Counselling/ mentoring Committee	Prof. S. K. Dhawale	ASH
18	Faculty Advisor-ISTE Students' Chapter	Prof. D. M. Dubbawar	Mechanical
19	Students' Council	Mr. Prashant Patil	Mechanical
20	National Social Service scheme (NSS)	Prof. S. N. Pandharkame	E & TC
21	Tech Fest (Shodh,2017)	Prof. N.D.Galande	Chemical
22	Cultural Committee	Prof. O. A. Jarali	Mechanical
23	E- Learning Committee	Prof. B. A. Danawade	Mechanical
24	Discipline committee	Prof. V. M. Swami	Mechanical
25	Library Committee	Dr. P. S. Joshi	Principal
26	Attendance Committee	Prof. Miss.J.G.Borade	Computer
27	Gymkhana Committee	Prof. M. D. Ghadge	Civil
28	Research and Development Committee	Dr. S.H.Gharat	Chemical
29	Alumni Association Committee	Prof. V. N. Rane	Computer
30	Maitri Sang Committee	Prof. M. A. Mohite	E & TC
31	Canteen Committee	Prof. S. K. Muchande	E & TC
32	Manthan Committee	Prof. D. N. Londhe	Computer
33	Nature Club Committee	Prof. S. D. Ayare	Chemical
34	Website Management Committee	Prof. S. C. Munghate	E & TC
35	Scrap and e-Scrap Approval Committee	Prof. S. D. Latkar	E & TC

36	Scrutiny Committee	Dr. P. S. Joshi	Principal
37	GIT Research Advisory Board Committee	Dr. S. H Gharat	Chemical
38	Cyber Security Committee	Prof. V. M. Nair	Computer
39	CCTV & Wi-Fi Committee	Prof. S.C. Munghate	E & TC

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

The institute has delegated responsibility and authority at various levels considering the functions of the department/unit and their roles and responsibilities. The academic planning and implementation, administrative planning and implementation, financial planning and implementation are done at sectional, departmental and at institutional level.

Along with formal organisational structure there exist various committees who have been accorded the authority to plan and implement their activities with full support. Following are the various committees which work independently as supporting units to the departments of the Institute.

▪ Local Managing Committee

No	Name	Designation
1	Dr. K.H. Gharda	Chairman
2	Dr. M.G. Gokhale	Secretary
3	Mr. U. Vidyasagaran	Member
4	Mr. A.C. Bhosale	Member
5	Mr. D.K. Shenoy	Member
6	Prof. M.S. Gadre	Member
7	Prof. A. D. Bhosale	Member
8	Prof.. J. G. Borade	Member
9	Mr. S. M. Prabhudesai	Member
10	Prof. B.A. Danawade	Member
11	Dr. P.S. Joshi	Member Secretary

Also we have,

Anti-Ragging Committee: Anti-Ragging Committee to ensure compliance with the provisions of these regulations as well as the provisions of any law for the time being in force concerning ragging; and also to monitor and oversee the performance of the Anti-Ragging Squad in prevention of ragging in the institution.

Women Development Cell: To prevent sexual harassment, promote the general well-being of female students, teaching and non-teaching women staff of the college, Institute has established Women Development cell and Internal Complaint committee. The committee processes sexual harassment complaints from any person and take suitable action. It also takes preventive steps in the matter of gender discrimination to provide appropriate working condition in respect of work, leisure health, and hygiene. Institute deputed members of WDC to attend and participate in the workshops and training programs that are arranged by university Cell.

Grievance Redress Committee: The grievance at the staff and the student level are dealt by the college grievance committee consisting of Head of department, member of general administration, lady faculty member, non-teaching staff member and representative of student associate (while dealing with students complaints).

6.1.8 Does the college promote a culture of participative management? If yes indicate the levels of participative management.

- Participative management is ensured by decentralised management of decision making in respect of academic and non-academic issues. Management by committees is the way the institute is run.
- The Management is always open to the discussion with the teaching and non-teaching staff which, in turn, encourages the involvement of the staff for the improvement of effectiveness and efficiency of the institutional process.
- Not only intradepartment but Also the interdepartmental meetings are arranged for common issues.
- The Principal with the Heads of the Departments discusses the needs, problems and suggestions to improve the educational quality and infrastructure improvements to talk to the management for further action.
- The teaching and non-teaching staffs are representing in the college committees as part of the participative management.
- Governing Committee constituted to manage different institutional activities. Along with there are various committees available which are described in section 6.1.6.

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

Institute has well defined quality policy and the same is also implemented through IQAC committee. The quality policy is formally stated and is conveyed to all concerned for implementation.

The quality policy is reviewed periodically and changes, if any, are made to it. The process of development of quality policy is a complex and continuous process and is driven by stakeholders. The process driven mainly by academic need and gap analysis of the society demands about attributes of an employable engineer. The quality policy and its implementation are mainly geared towards achievement of graduate attributes. Quality policy reflects the Programme Educational Objectives of the institute.

Strategic plan and action plan are designed in such a manner that this quality policy is driven and deployed during every process. Our quality policy is to apply knowledge for the betterment of society and create the awareness of continuous learning. Based on quality policy of the institute, every department has taken various actions to achieve the goals of the institutional quality policy. Following are some examples:

Educational Services:

- Make-up lectures/extra lectures/Guest lecturers/Expert Talk
- Industrial visit- as per subject requirement
- Workshops on different topics for student development

Learning Environment:

- Applying the innovative teaching learning methods such as Cooperative learning, Group discussions, Quiz, Seminars, Industrial Visits and Lab Demonstrations.
- Use of teaching aids such as Models, Video Films, Multimedia Presentations, NPTEL video lectures etc.
- Use of ELRC portal
- Video Conferencing facility

All these strategies are monitored by the IQAC.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

The Institution has perspective plan for achievement of vision and mission of the institute. The perspective plan includes development plan and has time bound implementation stages. The following are the salient features of the developmental plan of the Institution.

Teaching and learning:

Institute is trying hard to upgrade from under graduate programmes to post graduate programs in coming years. Already institute has made available the required land and infrastructure. Institute is progressive in teaching learning and adopted the research orientation.

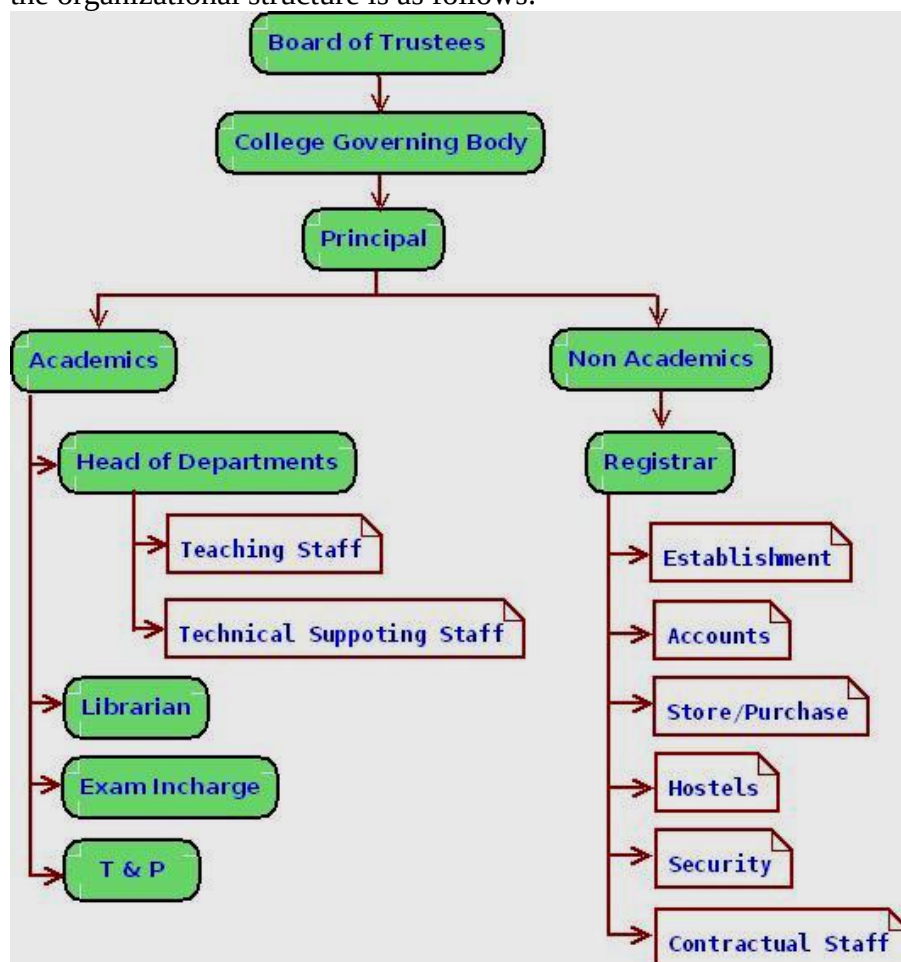
Research and development:

It is one of the resolutions of institute to become a center for Excellence. It is proposed to get recognition for R and D activities through development of facilities especially to promote commercial and applied research. Already the activities of the research are visible through the collaboration of the institute with Gharda Scientific Research Foundation.

- Industry interaction: Many MOUs have been signed with industries for promoting sponsored research projects. Selected students carry out one term internship in industries to complete their project / dissertation work. Institute proposes to expand these activities.
- To enhance student placement in national and multi-national companies.

6.2.3 Describe the internal organizational structure and decision making processes.

Organization structure is shown below. The decision making process based on the organizational structure is as follows:



- The board of trustees are involved in long term planning of the institute for finance, land, development, institute visioning and growth. Sanction of budget, quality policies of the institute fall under the purview of board of trustees.
- College governing body looks after the overall development of academic activities including addition and deletion of programmes, expansion activities of the campus, review of academic and development activities.
- Chairman and Secretary/managing Trustee of the Gharda foundation look after the final approvals and accords submitted through the board of trustees, governing body and local managing committee.
- The Principal is head of the institute. Overall responsibility of running the institute, preparing and proposing the budget, complying with statutory requirements of university/ AICTE/ DTE.
- Academic and non-academic staff reports to Principal. Based on the academic calendar proposed by university, institute prepares the academic calendar and allocates the resources. The implementation of the academic, curricular, co-curricular and extra-curricular activities is done by heads of the departments.
- There are various sections such as examination, library, establishment, training and placement, R&D, VTP, hostel, accounts, stores and security which are the support units and they have been given adequate decision making authority. All units report to Principal.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following Teaching & Learning

- Teaching & learning
- Research & development
- Community engagement
- Human resource management
- Industry interaction

Teaching and learning methodology:

The quality improvement strategy for teaching learning is as follows:

- Review of Previous results.
- Orientation programs of subjects.
- Teaching plan
- Use of appropriate methodologies like group discussions, projects, presentations, field work, surveys, seminars, experiments and practical sessions, guest lecturers etc.
- The institute encourages modification of the labs according to the revised syllabus.

- As per Students' Feedback analysis, individual faculty incorporates proper changes in the teaching process.
- Preparation of course file
- Use of NPTEL video lectures
- ELRC portal, e-journals, digital library which are effectively used by students and staff of the Institute.
- Videos related to module.

Research & Development

To strengthen the culture of research and development by encouraging faculty members to pursue research by providing them the facilities like individual system, Wi-Fi connection, digital library, equipments and laboratory. The quality improvement strategy for research and development is as follows:

- Formulation of research committee.
- Discussion with R&D co-coordinators.
- Allocation of budget for R & D.
- Publication by faculty in different International and National refereed journals, books, articles in edited volumes, seminar proceedings etc. is encouraged.
- The faculty is encouraged to register for PhD as a part of qualification improvement program and to attend various conferences at national and international Level.
- Actively participate in different professional bodies such as Computer Society of India (CSI), Indian Society for Technical Education (ISTE), IEEE, IChE, and ASME etc.

Community engagement

- Through NSS, the Institute conducts Sensitization and awareness programs against women exploitation and abuse.
- Tree Plantation, Swachta Abhiyan, Blood donation camp is arranged every year
- Under Vidyadhan committee financial help is provided to weak and needy children.

Human resource management

- Institute has Well defined recruitment policy and Effective selection process
- Employing visiting/ ad-hoc faculty as per the necessity.
- Support for academic advancement
- Systematic performance appraisal system and guidance to the people concerned
- Systematic promotion policies

Industry interaction

- Collaboration with few industries (Excel Pvt. Ltd, Lote MIDC etc.)
- Organizing the industrial visits
- Guest lectures by the experts from industries.
- Industrial training to the students
- Encourages the students to take industry sponsored projects.
- Providing consultancy to the industries.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The Principal collects the feedback from Mentoring committee coordinators and all HODs at the time of Mentoring committee Meeting. These meetings are held every month. The Mentoring committee coordinator from each department collects the information about the problems of students during mentoring meetings which scheduled every month. They report these to the mentoring committee chairperson. Mentoring committee coordinators and HODs convey this information to the Principal. In the meeting of the Principal with the management, this information is discussed. Based on these discussions, activities are revised.

The Principal ensures that adequate information is communicated to the top management and stake holders. The Principal collects information through various meetings like forum of heads, IQAC, as well as from the minutes of meetings of different statutory/non-statutory committees. This information is placed before the local management committee of the college.

The head of the institution ensure that adequate information is available for the top management and the stakeholders to review the academic activities through:

- The analysis of students feedback during academics about institute and teaching learning techniques
- The review and analysis of feedback received from the parents, eminent persons from industries and alumni.
- Parents' meeting is conducted every year to interact and receive the feedback.
- The review of suggestions received through the suggestion boxes from the staff and students.
- Interaction with the potential employers when they visit for campus interviews.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

- Faculty is paid incentives for producing completion of their higher degrees like PhD incentives.
- Every year after appraisal, with respect to the review of the faculty performance, increments are awarded. In some cases additional incentives are also paid for outstanding performance.
- Faculty members are given weightage for publication in national and international journals during increments.
- Management sponsors staff for STTPs, conferences, workshop and orientation programs. Providing special leaves for higher studies and attending courses.
- Management involves the staff members in various activities and decision making process related to the curricular, extra-curricular and administrative development of the college. The institute provides platform for interaction with eminent personalities from IITs and industries.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

Following is the list of resolutions and its status made by institute:

Sr. No.	Resolutions	Status
1	Restructuring of jobs of personnel under Registrar	Completed in August 2015
2	Preparation of Boy's and Girl's common rooms	Boy's common room is prepared inside "Eat and Meet" area and Girl's common room is prepared at C-wing, first floor.
3	Automation of store department through "store software"	Software is prepared but some bugs are to be fixed. After testing, it will be implemented.
4	Service bond for deserving Ad-hoc Faculty	Bond has been made with 7 Ad-hoc faculties.
5	Formation of Extension Activity Committee	Extension Activity committee is formed and actively under taking different activities till date.
6	Revision of dearness allowance from 113 % to 119 %.	Implemented with effect from January 2017
7	Approval to "smart class rooms"	Approval accepted. Class rooms are to be converted to smart

		class rooms in phase. In Phase-1 one class room per department is converted to smart class rooms. Remaining will be converted in Phase-2 and Phase-3.
8	Wheel chair facility to physically handicapped students.	Wheel chair is made available for physically handicapped students.
9	Reformation of Library committee is to be prepared.	Library committee is formed.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If yes, what are the efforts made by the institution in obtaining autonomy?

Affiliating university has a provision for according autonomy status to affiliated institutes. The institute does not fulfil the criteria as institute is just 9 years old.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

The institute has student redressal committee, women development cell, staff grievances committee. The grievance at the staff and the student level are dealt by the college grievance committee consist of Head of department, member of general administration, lady faculty member, non-teaching staff member and representative of student associate (while dealing with students complaints).

Suggestion boxes are provided at all important places in the Institute; the suggestions are collected and compiled by the grievance redressal cell in presence of registrar. Accordingly, inputs are given to related sections of the institute to take the actions there upon.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

No criminal court cases filed in the last four years against the Institute.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If Yes, what was the outcome and response of the institution to such an effort?

Institute has the mechanism for analyzing student feedback on institutional performance. Responses and opinions of the students on various processes, systems and infrastructure are collected in the following formats.

- Library feedback
- Mess Feedback form. The mess meeting is conducted in every month to solve the problems regarding the mess.
- Feedback about teaching staff
- Exit feedback

In addition to this, suggestion boxes are kept in each department as well as in each hostel for taking students feedback on institutional performance. Also, at the time of mentoring student feedback is received and addressed accordingly.

The feedback is conveyed to concerned faculty or staff, organizational section, IQAC and the top management. Corrective measures are taken by the Institute.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?

- The institute provides special facility to the faculty for pursuing higher studies.
- The institute deputed the faculty to attend workshops, conferences, seminars etc.
- The institute organizes in- house faculty development programs, administrative skills development programs, value based programs, and teaching-learning courses to enhance professionalism.
- The institute assists and encourages faculty to be member of local, national, international, professional bodies and societies like IChE, IEEE, ISTE etc.
- The institute motivates the faculty and staff for arranging industrial training programs/ visits
- The institute motivates the faculty for research and development by providing seed money, digital library and research equipment and labs.

- The institute promotes research culture, research publication by creating infrastructure to carry out research work and run projects,
- To improve the teaching skill, the faculty is encouraged to adopt learner centric education approach viz. better academic planning, use of modern teaching learning aids, application of ICT resources.
- The institute motivates the non-teaching staff to attend skill development and training program. Allows them to attend courses to improve their educational qualification, Institute organizes training programs on office automation, use of open source software etc.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

- For personality development, teaching skill development and social and technical up gradation, the Institute organizes lectures of full-time professional counsellor.
- If necessary personal counselling to faculty is done by counsellor.
- The faculties are empowered by sponsoring them to attend various programs like national/international conferences, workshops, STTP, training programs carried out at different levels.
- The institute invites resources persons such as industrialists, researchers and academicians for interactions with the staff.
- The institute encourages the senior faculty to motivate the junior faculty.
- Faculty is encouraged with benefits like gratuity, PF and incentives for better performances and acquiring higher educational qualification.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

- Performance Based Appraisal System (PBAS) based on Academic Performance Indicators (APIs) in recruitments and Career Advancement Scheme (CAS) for the promotions of University / College Teachers is implemented and carried out.
- The teacher and HOD are required to give scores based on one's self assessment for (a) teaching related activities, (c) participation in examination and evaluation; (d) contribution to innovative teaching/learning process, (e) contribution to administration and social/extension activities, and (f) contribution to research and professional/qualification up-gradation.

- Once this part is filled, the respective faculty goes through the feedback given by their head of the department and finally signs beneath the second part as an indication of acceptance.
- In the last part the Principal express agreement or disagreement with the overall assessment done by HoD.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

- Review of the performance appraisal is done by Management affairs with suitable and remedial suggestion through Principal.
- Communication is done to concerned faculty for support and guidance for improvement
- Syllabus coverage, time adequacy, student psychology of understanding the topics are some the points that reviewed in reports of each faculty member.
- They are communicated through annual increment order and promotion orders.

6.3.5 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

Welfare schemes available for teaching and non-teaching staff are as follows

- Personal Accidental Policy for staff.
- Group Medical insurance policy for staff and his/her family.
- Free travel for faculty member by the institute.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

- The ambience, vibrant student population, work culture, freedom, the opportunity to explore, good academic and research infrastructure are some of the distinctive characteristics of the college.
- Liberal fixation of pay
- Attractive pay package is provided to experienced and qualified faculty.

Sr. No.	Welfare schemes	% staff benefited
2016-17		
1	Group Mediclaim insurance policy	100 %
2	Personal Accidental Policy	100 %
2015-16		
1	Group Mediclaim insurance policy	100 %
2	Personal Accidental Policy	100 %
2014-15		
1	Group Mediclaim insurance policy	100 %
2	Personal Accidental Policy	100 %
2013-14		
1	Group Mediclaim insurance policy	100 %
2	Personal Accidental Policy	100 %
2012-13		
1	Group Mediclaim insurance policy	100 %
2	Personal Accidental Policy	100 %

- For retaining the eminent faculty, budget is allocated for staff development, advanced study, research, participation in seminar, conference, workshop etc.
- Promotion based on PBAS, CAS.
- Annual increment is given based on performance.

6.4 Financial Management & Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

- In the beginning of every financial year, budget is obtained from departments, library, and sports.
- Budget for the departments is prepared by concerned HODs, in consultation with the department laboratory in-charge faculty. Then it is sent to the Principal.
- The departmental budgets are discussed by the Principal at HODs' meeting and then placed before the LMC for review and recommendations to GC.
- Governing Council finally approves the budget and concerned are informed accordingly.

- While preparing the institutional budget, at first, a provision is made for Staff Salaries & Allowances. A provision is made for administrative & maintenance expenses such as electricity, water, telephone, postage etc.
- Provision is made for the departments' priorities, needs & requirements of various committees and development / up-gradation of department.
- To meet Expenses of Human Resource & Administration every month, the institute follows a practice to invest in Fixed Deposits that mature one by one on the 5th day of each month.

Maharashtra State Skill Development Society, Mumbai

Sr. No.	Year	Budget in Lakhs	Expenditure in Lakhs	Remark
1	2016-17	1318.66	1079.01	Salary and expenses of March are not included
2	2015-16	1,617.02	1561.97	----
3	2014-15	1,642.52	1360.63	----
4	2013-14	1,347.34	1317.59	----
5	2012-13	3,219.26	1351.88	Planning for new programme-Metallurgy branch, Boys hostel No.3, Girls Hostel No. 2, hostel furniture & equipment which is cancelled.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

- Internal audit is done after every 3 months by the auditor agency..
- Further, statutory,/ external audit is done after every half year.
- Annual audit is done by external audit agency and is approved by Charity Commissioner.
- All the major equipments are purchased through Equipment / Purchase Committee. The Equipment Committee meeting is held in each semester of every academic year. After approval of the equipments within budget provision, quotations are called from renowned suppliers, then Comparative statement is prepared and suppliers are called before equipment committee for negotiations. After negotiations, purchase order is placed, with necessary conditions. When materials / equipments are supplied, it is physically verified as per purchase order and then its installation and trials are taken.
- The last statutory/External Audit for financial year 2015-16 is done on 21st JUNE, 2016.
- No Major objection is raised by statutory/external audit.

6.4.3 What are the major sources of institutional receipts / funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund / corpus available with Institutions, if any.

- The status of our Institution/College is self Financed, non-aided private engineering college. The major source of receipts is Fees from the students. The Fee (Tuition Fee & Development Fee is decided by Shikshan Shulka Samiti, Govt. of Maharashtra).
- Our College is affiliated to Mumbai University. Other fees are collected as per Directives of Mumbai University Mumbai.
- Also, the entire infrastructure (Land Building & Immovable Property) is provided by the Parent Trust.
- If there is any deficit, then the Parent Trust i.e. Gharda Foundation fulfils the deficit.
- The reserve/corpus fund is maintained by the Trust.
- Audited income and expenditure statement of academic and administrative activities of the previous four years are available.

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

- For acquiring additional funding, the Institute generates revenue through consultancy work and through projects sponsored by organizations like DST, UGC, AICTE, NMMRDA etc. Details of grants received in the past years are mentioned in criteria III, Table 3.1.5 (b).
- The revenue generated from consultancy is utilized for upgrading the laboratories, conducting faculty development and student development programs.
- The funding received from the respective organizations is utilized for the purpose for which it is received.

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance System (IQAS)

- a. **Has the institution established an Internal Quality Assurance Cell (IQAC)? If ‘yes’, what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?**

Yes, the institution has an established IQAC on 02/07/2014.

Goals:

- To develop a quality system for conscious, consistent and catalytic programmed action.
- To improve the academic and administrative performance of the college.
- To promote measures for institutional functioning towards quality enhancement through internationalization of quality culture and institutionalization of best practices.

Functions:

- Development and application of quality benchmarks/parameters for the various academic and administrative activities of the colleges
- Facilitating the creation of a learner-centric environment conducive for quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process
- Arrangement for feedback responses from students, parents and stakeholders on quality- related institutional processes
- Dissemination of information on the various quality parameters of higher education organization of inter and intra institutional workshops, seminars on the quality related themes and promotion of quality circles
- Documentation of the various programs or activities of the college, leading to quality improvement
- Acting as a nodal agency of the college for coordinating quality-related activities including adoption and dissemination of good practices
- Development and maintenance of the institutional database through MIS for the purpose of maintain or enhancing the institutional quality
- Development of the annual Quality Assurance Report (AQAR) of the college based on the quality parameters or assessment criteria developed by the relevant quality assurance body (like NAAC, NBA) in the prescribed format.

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

Following is the list of important decisions taken by IQAC during recent years. All decisions taken by the IQAC are generally approved by the management- Few modifications may be suggested by them.

Decisions	Status	Date
Formation of IQAC	Implemented	02/07/2014
Finalization of Goals and functions of the IQAC	Implemented	02/07/2014
Application of NBA for chemical and mechanical engineering	Implemented	03/07/2014
Progression on Academic Audit	Implemented	27/09/2014
Registration with DSIR for recognition of GIT as a research centre	Pending	27/09/2014
Arranging guest lectures and industry visit	Implemented	24/01/2015
Setup industry institute interaction cell	Pending	24/01/2015
Formation of scrutiny committee for projects	Implemented	24/01/2015
WiFi facility in campus	Implemented	
Arranging STTP/FDP	Implemented	26/10/2015

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes, the IQAC have two external members on its committee- both from industry sector.

Mr. Vijay Sane – Professional working with Chemical Industry.

Mr. Prashant Patwardhan – Industrialist.

d. How do students and alumni contribute to the effective functioning of the IQAC?

For the effective functioning of IQAC, the students and alumni contribute as follows.

- Responses and opinions of the students on various processes, systems and infrastructure are collected in the following formats/system.
 - Library feedback

- Feedback about teaching staff / technical staff/ non teaching staff
 - Exit feedback
- In addition to this, feedbacks in the form of suggestions are received in the suggestion boxes.
- Alumni visit the Institute during alumni meet and on other occasions. Some alumni are invited as guests on occasions like seminars, conferences, students' project evaluation, social events etc. At this time, feedback is collected from the alumni.
- Various committees has student as co-ordinator/member who contribute to quality improvements.
- The IQAC receives the statistical report based on the feedback and uses the information appropriately.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

IQAC presents its decisions to all the HoDs during HoD meetings. Faculty and staff from different constituents of the institution are communicated through the heads of respective units and Principal.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalization.

Institute has well established administrative structure to look after the quality assurance of academic and administrative activities. The various committees including IQAC are integral part of the framework.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

College is organizing various training programs for the faculty improvement at college level as well as departmental level. List of some workshops is as follows:

- Overview of NBA by Prof. Bharatesh Danawade.
- Design of course outcomes and its measurements Prof. Bharatesh Danawade.
- Workshop on NBA by Dr. Mahiskar S., NMIMS, Mumbai.
- Guidance and inputs on accreditation by Dr. Mrs. Subbarao and Dr. Ahankari from ADCET, Ashta.
- Guidance and inputs on accreditation by Dr. Shyam Joshi, Principal, DBJ College, Chiplun.

- “Guidance and inputs on accreditation by NAAC” by Dr. Mrs. Shaila Subbaraman, Walchand College of Engineering, Sangli.
- Prof. S. C. Munghate, Prof. O. A. Jarali & Prof. Rohitbabu Nalwala has attended Two days workshop on “Outcome Based Education” on 15th and 16th December 2016.
- Prof. S. S. Patil, Prof. M. N. Lahane has attended Two days workshop on “Accreditation Process for Technical Institute ” on 15th and 16th December 2016.
- Prof. S.S. Patil, Prof. A. K. Mangore has attended one day workshop on “Ensuring Quality through Academic and Administrative Audit ” on 27th Jan 2017.
- Also Programme like “Technical Communication” and “Teaching Pedagogy” is conducted at GIT Remote center from IIT Bombay.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If ‘yes’, how are the outcomes used to improve the institutional activities?

Our college is undertaking internal Academic Audit for the betterment of staff & students. The academic Audit is conducted twice in a year, first during start of term and second in midterm. The academic audit is done on the basis of Course file, syllabus coverage and exam result and attainment. Every academic report is communicated to departmental HOD and IQAC for necessary action. This Academic Audit helps the staff members to remain up to date related with teaching learning process.

6.5.5 How is the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The Institute’s internal Quality assurance mechanisms such as IQAC, formal organization structure, statutory committees, and committees to support administrative and academic activities are functioning to fulfill the requirements of AICTE, University of Mumbai, NBA and NAAC.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Following mechanisms are used to continuously review the teaching learning process.

- Audits of course file of each subject by internal auditor at the start of semester and at mid-term.

- Every month MIS report is generated by department which consists of syllabus coverage and prediction, number of lectures engaged, defaulter list to monitor teaching learning process.
- Mid-term semester and end term feedback about a teacher from the students is conducted.
- Mentor meeting with mentees (students) every month is conducted.

Outcome:

- The Quality of Academic processes in the Institute has improved through improved result and attainment.
- Individual faculty gets inputs to improve his/her performance and hence contribute to the teaching-learning quality.
- Individual attention to students through mentoring contributes to improvement in students' performance.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders? Any other relevant information regarding Governance Leadership and Management which the college would like to include.

The institution communicates its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders as follows:

- Vision, Mission, Quality Assurance policies are displayed on the website of the institution.
- Vision and Mission statements are displayed on notice boards, circulation areas and at prominent places in campus.
- Vision, Mission and quality assurance mechanisms are included in the information brochures meant for admission, advertisement, training and Placement.
- Quality Assurance mechanisms and outcomes are informed to all students during induction program, students mentoring sessions, parents meetings, alumni meetings, Principal's address at seminars/ conferences/ interactive sessions with stakeholders, etc.

CRITERIA-VII: INNOVATIONS AND BEST PRACTICES**7.1 Environment Consciousness**

- The institute is conscious about environmental issues. It tries to create environmental awareness among the stakeholders. The institute authorities are very keen on making the campus eco-friendly by adopting energy conservation practices, effective waste management at source. Green water is circulated for plantation inside the campus, for making the campus clean, green and healthy. Institute has well established nature club.

7.1.1 Does the College conduct a Green Audit of its campus?

All the classrooms, Laboratories, offices, hostels and residential quarters are audited for ample light with standard norms. Following practices are regularly held in the campus:

- Green coverage and tree census
- Waste water treatment and management
- Sewage treatment and management
- Kitchen waste composting
- Bio Gas plant
- Solar water heaters
- Solar street lights

7.1.2 What are the initiatives taken by the College to make the campus eco-friendly?**Energy Conservation:**

- The campus is designed for ample light.
- Energy saving CFL and LED lights (28 W, 20 W and 8W) have been installed in the campus which indirectly reduces electricity consumption.
- Solar lamps are installed as a street light in the campus.
- Quality of electric supply is improved by installing 60 amp active harmonic filters.
- Online UPS system for computers and equipments has been installed.

Use of Renewable Energy:

- Solar water heaters have been installed in the hostels. Details are as follows:
 - (a) 5,600 litres in Shivneri Hostel
 - (b) 5,200 litres in Raigad Hostel
 - (c) 5,200 litres in Ajinkyatara Hostel
- Organic waste composting unit having area 45 sq. m is used to carry out bio-composting of food waste generated in the campus.

- For treating waste water generated by hostel, toilet, bathrooms and kitchens a bio-filter plant is established having area 520 sq. ft.
 - 30 KLD capacity
 - Raw materials are saw dust, earth worms.
 - 550 banana plants
 - Treated water is reused for irrigation purpose.



Fig. Eco friendly initiatives in the campus

Rain water collection:

- Rain water harvesting is done in the campus by collecting rain water in a tank with a storage capacity of 25 KL near the college canteen.
- Sewage water treatment plant (Bio-filter) with a capacity of 30 KLD to treat the waste water has been installed.

Check dam construction:

- A dam has been constructed in the institute premises having capacity 1.25 crore liters. This dam stores maximum rain water which is coming from nearby terrain.

Efforts for carbon neutrality:

- Daily MSRTC bus facility is available to the students of Khed and Chiplun city which avoids the use of individual vehicles and thus reducing carbon emission.
- Quarters are provided to the faculty members inside the campus which minimizes the usage of automobile.
- Hostels are provided inside the campus which also minimizes the usage of automobile.
- Food wastes are used for manufacturing of bio-compost.

Plantation:

- College has 175 alphanso, 20 raiwal, 20 banaras amla, 550 banana and 40 coconut trees. Forest plants, herbs, shrubs and climbers of various varieties are also available.
- A large number of tree plantations were done by the team of teaching, non teaching staff and N.S.S cell in the campus to make it green.
- Treated water from the sewage of the campus is used to develop and maintain the garden.
- List of medicinal plants present in the institute is as follows:

Sr. No.	Local Name of the Plant	Scientific Name of the Plant	Benefits
1	Nag keshar	Mesuaferrea	For Asthma , cough
2	Rakta chandan	Pterocarpussantalinus	For digestive problem
3	Saptarangi	Salacia reticulate	Used as Antidiabetic
4	Beheda	Terminaliabelerica	Controlling BP, vomiting
5	Brahmi	Bacopamonniera	Used as a memory enhancer
6	Aloe Vera	Aloe vera	For skin treatment
7	Neem	Azadirachta indica	For skin treatment

Hazardous waste management:

Precautionary measures are taken for proper handling and disposal of hazardous chemicals to avoid the possible accidents and thereby creating safe working environment.

a) Management of hazardous waste in academic area:

- In emergency eyewash fountain and shower are immediately accessible.
- Staff and students wear a lab coat with sleeves rolled down, chemical splash goggles and nitrile disposable gloves when working with concentrated acids, alkali, poisonous, carcinogenic chemicals while

handling the micro-organisms in the laboratories. While working with diluted concentrations, nitrile gloves are always used. Disposable gloves are never re-used.

- The laboratory is equipped with exhaust fan, fuming cupboard to expel fumes and gases formed during experimentation.
- To prevent the spread of chemicals outside the lab, users wash their hands thoroughly with soap and water.
- The gels containing poisonous chemicals are collected separately in a sealable disposable plastic containers or airtight container.
- The hazardous chemicals are under the custody of store keeper and used under strict supervision.
- Camera is used to take a photograph as well as face-shield specially to avoid contact of UV light.

b) Management of hazardous waste in residential area

- Institute has a bio-filtration plant. Wastewater discharged from the hostel is used in this plant. This waste water is circulated for gardening purpose. Different parameters of water such as pH, TDS, COD, BOD and DO are measured and maintained as stipulated.
- Institute has composting plant where waste food from canteen and hostel mess is used as an input.

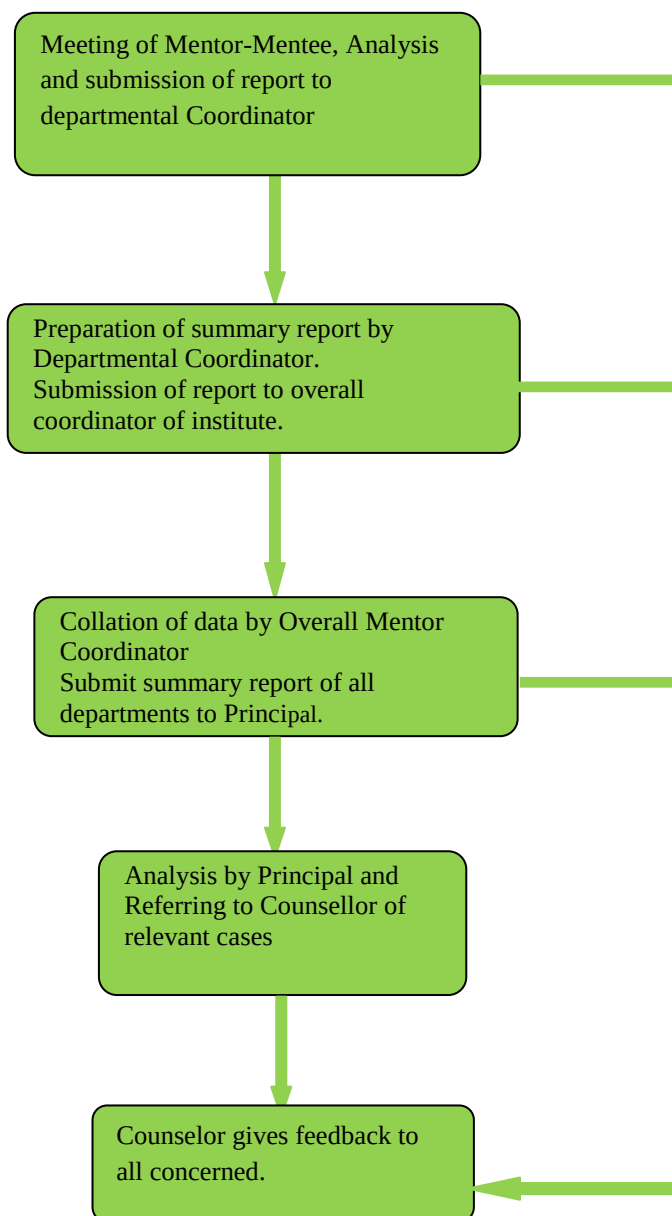
E-waste management:

- Institute has scrap management committee which looks after E-waste management.
- E-waste generated in the institute is classified and is sent to the authorised E-waste treatment plant.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

1. Title of the Practice: Mentorship Programme



2. **Goal of the Practice:** The objectives of the mentorship practice are:
- To train students for facing different types of problem in personal as well as professional life
 - To guide students in their career path.
 - To provide counseling to students, if they need it.
 - To improve teacher-student relationship.
 - To motivate students to participate in technical as well as other extracurricular activities.
 - To improve discipline among the students.
 - To make campus ragging free
 - To improve creative skill among the students
 - To improve academic performance of the students.
 - To improve students involvement in teaching learning process.
3. **The Context:** As the majority of the students are not matured enough to take their own decisions, they need guidance at the start of professional career. Mentorship programme of the institute guides and counsel students in academic, non-academic matters including personal domain to achieve their best in life. In particular, the scheme aims at addressing deficiencies in attitudes, habits and knowledge of the students regarding study and learning. Various sessions are arranged by the mentors in association with the respective subject teachers and experts, focusing on problem-based learning of modern technology.
4. **The Practice:** Mentorship program started in 2007 i.e in the very first year of starting of institute. All teaching faculties are involved as mentor and are allotted 15-20 students. Mentor works as a local guardian as well as counsellor for the student. Each department has one departmental mentor coordinator. He/She keeps the record of the respective department for monitoring and analysis on regular basis. Institute has one overall mentor coordinator, who collects and keeps the records of the mentor mentee meetings of whole Institute.
- Each mentor conducts one to one meeting every month and group meeting is also organized with students. Problems related to academics as well as nonacademic issues are discussed. . If problems are not solved at this level, then it is forwarded to overall mentor coordinator. Then overall mentor coordinator submits a summary report and also sends cases which deserved attention of Principal. Principal analyses the problems and hold meetings with concerned mentor and students. If deemed fit, he refers the case to counselor. For solving students' psychological problems, institute has appointed a psychological counselor. Students can meet or contact the mentor personally anytime. Students are also free to contact counselor directly.

Following various academics as well as nonacademic issues are discussed in the meeting

- Good and bad study habits
- Study planning and techniques
- Learning techniques for self study
- Distractions if any, and how to cope with them
- What to do when things go wrong?
- Examination preparation
- Health and mental issues
- Financial problems

Mentorship programme provides platform to students, where they discuss their entire personal problem, their academic problems and other hostel problem. Students discuss freely their problems and mentor tries to solve the students' problems. They maintain the record of the students and report progress to their parents, if and only if deemed fit. Students can consult the mentor personally or on call/email at any time irrespective of the working hours of the institute. This programme not only is helpful in improving academic performance but also is helpful for personality development of the student. The group meetings in this mentor-mentee programme also provide a forum to students for discussing their own experiences and ideas, with a view to foster networking and mutual support within the class. This programme also helps students in career guidance.

5. Evidence of Success: Evidence of success in performance against targets and benchmarks and review of results are given below:

- Student's attendance is found to have improved after counseling by the mentors.
- The direct communication between mentor and students has improved the teacher-student relationship.
- Improvement in academic performance was observed.
- Participation in technical events like conferences, workshops, seminars, competitions was improved.
- Participation in extra-curricular and sports activities was enhanced.
- Students become more disciplined compared to their beginning sessions.
- From beginning, the Mentors have taken active initiatives to make ragging free campus. No ragging cases are found till date.
- It is found helpful in career guidance as employability skill has increased and hence the placement.
- Participation in various creative activities under 'MANTHAN' and 'NATURE' club, NSS is found satisfactory.

- 6. Problems Encountered and Resources Required:** This programme has been practiced from beginning. The serious problem has not been observed.

Separate budgetary provision is planned in future to organize workshops by hiring external experts in the subject of mentorship, organizational behavior and stress management on regular basis. Expert talks on the subject are also planned. It was felt that separate space for the activity is required. The institute promptly provided the same.

1. Title of the Practice 2: Guidance to academically strong and poor students

2. Goal:

- To improve the academic performance of poor students.
- To increase the number of rankers in University examination result.
- To increase the excellence level of academically good students.
- To improve overalls personality traits like confidence, time management, smart work, communication skills etc. of the students.

Institute develops various important schemes to improve students' performance in examination and other academic activities. It is found that some students are academically strong but they are not able to maintain their performance in University examination. Also there are some weak students, who need assistance to improve their performance.

To overcome such problems, institute started different activities. "Guidance to academically strong and poor students" is one of them. It helps student to have regular interaction with respective subject teachers and to solve their problems. Weak students may spend much time on the exercises given by teacher. Teacher personally assess the performance of the students and suggest them possible solutions.

3. The Context:

In learning process, some students face basic problems like understanding, analysis and explanation of concepts. These students are not able to put theory into practice. It results into the poor performance of students. At the time of examination or test, students face such problems. If they do not get solutions on it, they get frustrated and lose their confidence. Even academically strong students also face such problems in some subjects. Therefore, it is the need to overcome such problems and support students to enrich their confidence. Practically it is not always easy to run such schemes in working hours. So, faculties try to spend much time with students beyond the working hours. In their weekly plan, faculty mentions slots for interaction with students and also give their spare time for interaction with students.

4. The Practice:

All subject teachers choose academically five scholar and five poor students in their respective subjects. They take the overview of students' performance in sessional and University examination. According to the students mark, the teacher categories them as scholar or as poor. Teachers keenly observe that in which questions or module, students lose their marks. He/ she make the list of such questions or modules. He/ she also observe the area or module, where academically poor students have to improve their performance. He/ she make the strategy to improve performance of these students. The strategies are dependent on students understanding and learning abilities. The strategies are different from student to student. Teacher and respective student spend their extra time together and discuss problems and possible solutions with each other. Also scholar students can give guidance on difficult points to academically poor students. It helps poor students for their understanding of a particular topic. For the convenience of students and subject teacher, only five poor and five strong students have to be chosen by subject teacher.

5. Evidence of Success:

The scheme "Guidance to academically scholar and poor students" gives following positive points:

- It is observed that the marks of students in respective subjects are increased in sessional and University examination.
- The passing percentage of poor students is increased. It helps to improve the overall result of the whole institute.
- Academically scholar students became University rankers in their respective course.
- Such students started actively to participate in various presentations, seminars and other tech fests.
- It helps to boost overall confidence of students and to develop their personality.
- It helps to develop a good relationship among the teacher and students, which is useful to run teaching learning process efficiently.

6. Problems Encountered and Resources Required:

- It is found that, in the beginning academic approach of poor students was not proper.
- Poor students could not understand the difficult methods or topics.
- To make possible that students take interests and overcome these problems took long time.
- Most of the students lacked in basic knowledge.
- It was difficult for them to manage their regular routine in academic hours as well as after academic hours.

1. Title of the Practice 3:

Students' difficulty solving session during University Theory Examination

2. Goals:

- a. To improve subject wise and overall result.
- b. To increase confidence level of students.
- c. To solve difficulties of students faced by students at eleventh hour.
- d. To guide students regarding selection of questions based on difficulty level.
- e. To guide students to maximize attempt of questions.

3. The Context

Students' difficulty solving session during University Theory Examination is a practice meant for boosting the confidence level of the students before appearing for the examination and also to solve such difficulties prior to examination which may pertain to the topics which he may not have understood well in the classroom teaching learning process.

The practice is also aimed at bridging the gap between student and his subject teacher. This practice helps both academically poor as well as academically strong students.

Apart from improving the result, the practice helps in creating academic environment in the Institute.

Institute is having 05 branches of UG courses. University examination is scheduled twice in a year in morning & evening sessions. Since the practice aims at voluntary participation by students, only those who really have difficulty do participate in the counselling.

Following problems are faced in designing and implementing the practice of counselling students one day before examination.

- Vacation of staff and university examination schedule is generally overlapped. Sometimes it is difficult to adjust vacation of staff accordingly.
- Since the numbers of appearing students are more in first year engineering subjects; institute needs to appoint faculty accordingly.
- Same student needs to be addressed to solve difficulties at different time.
- Accommodation & food facility of outside faculty needs to be done.

- Transportation facility is also required.
- Since numbers of students are more in difficult subjects, more spacious rooms are required to accommodate.
- All teaching aids (black board, OHP & LCDs) are needed at location.
- Separate security arrangements needed to be done at the campus to allow day scholars.

All above challenges are overcome by taking specific orders from the Principal from time to time. Most of the difficulties are specific to university timetable and creation of additional infrastructural facility at location of pre-counselling during exam period.

4. The Practice

- Head of the institute conducts meeting of all the head of the departments to take suggestions and opinions to implement the practice before the start of examination. Data regarding number of appearing students is collected from examination department.
- Head of the institute issues a notice regarding dates, time and venue of above program.
- Department head issues a notice to faculty and students.
- Concerned faculty attend the session at the given time. Faculty solves the difficulties by counselling. Sometimes it is required to solve the complete numerical.
- Preference is given to girl students.
- Notes are also provided to the students if demanded.
- Following types of difficulties are solved during session.
 1. Basic concepts
 2. Steps of solved problems
 3. Unsolved numerical in previous university question papers
 4. Problems based on sketchesThese problems are solved up to satisfaction of the student.
- Guidance is also given to students to maximize marks, attempt more questions & time management.

5. Evidence of Success

- After solving the difficulty of students, it is observed that students are relaxed & face the examination with increased level of confidence.
- After examination, students share their experiences in feedback form. It includes
 1. Benefits of session
 2. Confidence level for achieving the target

3. Question wise approximate marks

- Students demand such sessions in every semester.
- Overall result is improved compared to other nearby colleges & university.
- Direct communication between students & staff has improved student teacher relationship.
- This practice supplement teaching and learning in traditional classroom environments as they can provide new opportunities for enriching existing curriculum through creative, authentic and/or flexible, non-linear learning experiences. It provides space for participation, collaboration, distribution, dispersion of expertise, and relatedness. It helps in share and search for knowledge which contributes to informal learning.

6. Problems Encountered and Resources Required

Following problems are encountered while implementing the practice:

- Dinner & accommodation of staff
- Remuneration of faculty
- Overlapping of vacation with university examination
- Fluctuations of electricity

Resources required:

- Specious hall with seating capacity of students
- Black board facility
- Over head projector
- LCD
- Internet facility
- Security
- D.C. generator
- Drinking water
- If any problems raised –vehicle facility
- Notes, question papers, videos, model solutions, library
- Snacks corner and tea coffee stall

7.3 Best Practices

1. Title of the practice 1: Area adoption program (AAP)

2. Goals:

1. To provide facility for launching civil and computer related complaints.
2. To coordinate computer and civil maintenance work in a centralised manner.

3. Context:

Following challenging issues were addressed in designing and implementing the practice.

- List of complaints was prepared.
- Initially, all the complaints were under one head i.e. civil. Due to increase in number of complaints, it was difficult to sort the complaints department wise. Then, different head was formed for computer related complaints.
- Total campus of 23.16 acres is divided into several areas and each is assigned to process owner.
- A group of students, teaching and non teaching staff is allocated to each area. Responsibility of cleanliness and maintenance of that area is assigned to concern group.
- GUI based application which can work in intranet is developed in house to receive complaints.
- As budgetary provision is done by head of the institute in advance, it is difficult to take discussion at institute level for some major complaints. Such cases need to be addressed by management.

4. The Practice:

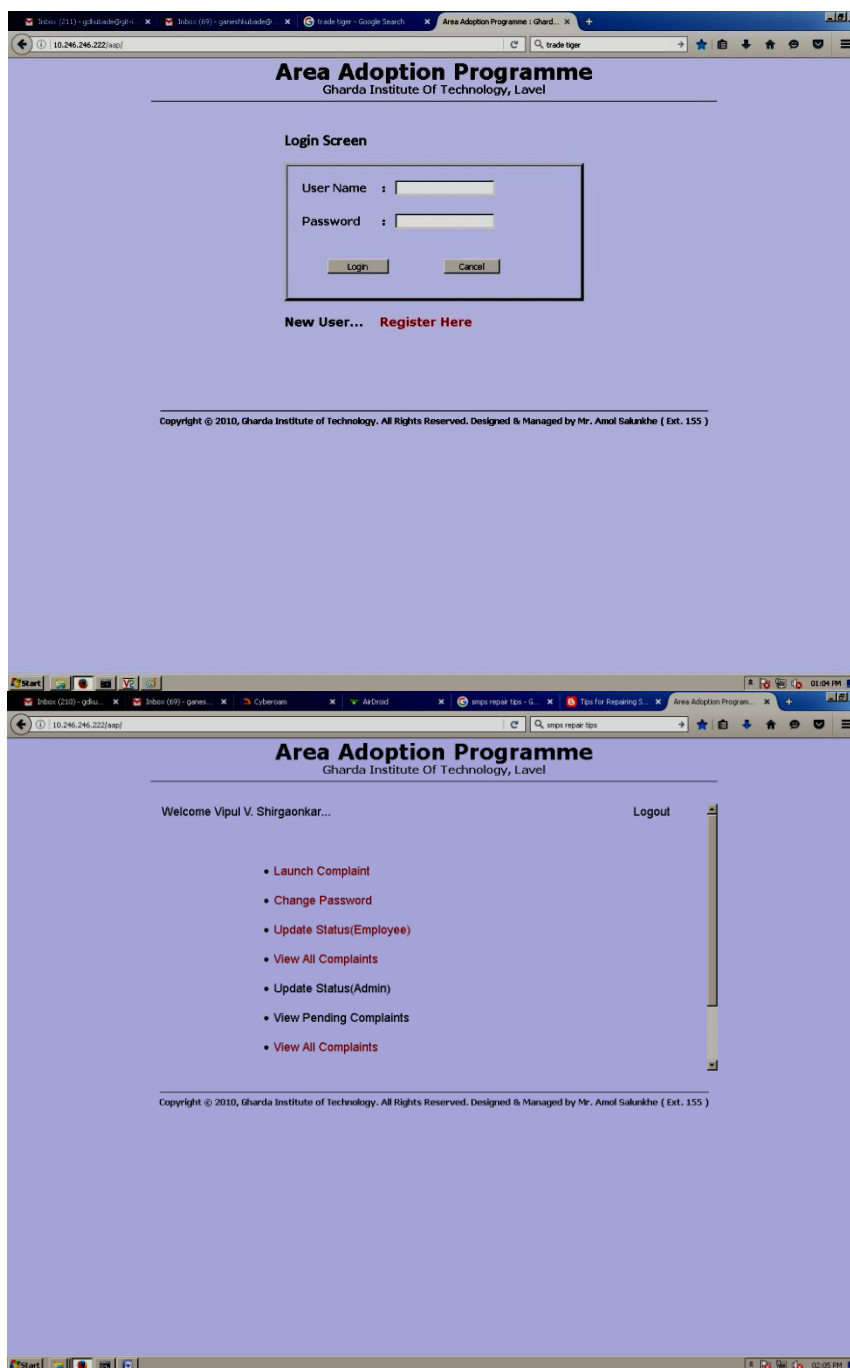
- This application works in intranet. IT helpdesk provides username and password to every faculty. Faculty launch their complaints through <http://10.246.246.222/aap>.
- After receiving complaint, complaint ID is provided to user to take follow up. Users can also check the status of their complaint using their complaint ID.
- Institute has project and IT help desk department to take care of their concerned maintenance work.

Project Department: This department takes care of all complaints including cleanliness of campus, electrical, plumbing, civil maintenance.

IT Help Desk: This department takes care of computer and Intercom related complaints.

Project and IT helpdesk department are having administrator login to view the complaints and give their remarks.

Project and IT helpdesk submit the monthly report in their Monthly Information System (MIS) to local managing committee (LMC). If any complaint needs budgetary provision, then LMC takes decision.



5. Evidences of Success:

Before the implementation of Area Adoption Program, institute was facing problems related with computer and civil maintenance. Complaints related with the same were not properly identified. Also they were not sent to concerned department on time. Hence those complaints were remained

unattainable. Also it was difficult to decide the priority of complaints based on their urgency.

Introduction of Area Adoption Program has made large impact to overcome such maintenance related problems.

AAP helps to distinguish between IT and civil maintenance work. With the help of AAP, faculty can launch complaint to the concerned department directly.

Status of solved and pending is discussed in monthly meeting of Local Managing Committee. Concern persons are called in the meeting to discuss major issues for implementation, if any.

AAP has provided single window solution for solving maintainance related problems.

Format of AAP reports are given below:

Sr. No.	Cmp No.	Area Name	Who launched	Against Whom	Team Leader	Complaint Description	Registration Date	Material Used	Total Expenditure	Closing Date	Admin Remark
1	3246	10. C-Wing Ground floor (Mechanical Dept.)	Manjunath Charudatta Marathe	IT HelpDesk	H.O.D Mechanical Engg	CAD- H(Cad)Lab 02nos PC no 9 & 10 are not working please check working	28-06-2016	NIL	0	14-07-2016	serviced pcs working fine
2	3249	6. B-Wing Ground floor (West side - FE Dept.) Seminar room	Girls Hostel No. 1 (Ajinikytara)	IT HelpDesk	H.O.D First Year	near seminar room chemical department (computer adapter problem)	01-07-2016	NIL	0	02-07-2016	Adapter power socket loose resolved working fine
3	3250	6. B-Wing Ground floor (West side - FE Dept.) Seminar room	Girls Hostel No. 1 (Ajinikytara)	IT HelpDesk	H.O.D First Year	near seminar room chemical department (computer keyboard problem)	01-07-2016	ps/2 to usb converter	100	14-07-2016	pc received for repair ps/2 problem tried to repair but no success need to install ps/2 to usb converter
4	3251	4. A-Wing 1st floor (East Side - Admission/Account)	SWAPNIL GURAV	IT HelpDesk	Registrar	Computer is take lot of time to open any type of file. EXCEL, MSWORD...	02-07-2016	NIL	0	02-07-2016	pc cleaned for temp file and make some settings working fine
5	3252	6. B-Wing Ground floor (West side - FE Dept.) Seminar room	Sushma Vanhanyal Vishwakarma	IT HelpDesk	H.O.D First Year	near seminar hall/chemical dept. MS office need to be installed on PC.	02-07-2016	new smps	750	25-08-2016	new smps installed working fine smps problem need to replace please put requisition for same
6	3253	10. C-Wing Ground floor (Mechanical Dept.)	Manjunath Charudatta Marathe	IT HelpDesk	H.O.D Mechanical Engg	CAD-H lab Pc no 8 Not starting. Please Check	05-07-2016	NIL	0		NIL
7	3254	1. All Security Cabins, Canteen	Vijay V. Shirgaonkar	IT HelpDesk	Registrar	test	05-07-2016	NIL	0	08-07-2016	NIL
8	3255	10. C-Wing Ground floor (Mechanical Dept.)	Blends Y Acharya	IT HelpDesk	H.O.D Mechanical Engg	Please install Printer at my Newcabin (opposite HOD Mechanical Cabin) on both PCs.	05-07-2016	NIL	0	08-07-2016	printer installed
9	3256	10. C-Wing Ground floor (Mechanical Dept.)	Deepak M. Subbarwar	IT HelpDesk	H.O.D Mechanical Engg	unable to download the video lectures, please solve the problem before starting the semester	05-07-2016	NIL	0	14-07-2016	Checked problem. Problem is with plugins.
10	3258	10. C-Wing Ground floor (Mechanical Dept.)	Blends Y Acharya	IT HelpDesk	H.O.D Mechanical Engg	The computer of Faculty cabin no C-01-16 is not working properly. This computer is accessed by Prof Pravin N. Jadhav	08-07-2016	Old smps	100	08-07-2016	SMP's faulty replaced with old working smps
11	3259	10. C-Wing Ground floor (Mechanical Dept.)	Pravin N. Jadhav	IT HelpDesk	H.O.D Mechanical Engg	Computer in my faculty cabin no C-01-16 is not working properly	08-07-2016	NIL	0	08-07-2016	duplicate entry

Sr	Sl	Room	Requester	IT HelpDesk	H.O.D	Problem	Date	Status	Cost	Action
38	3298	10. C-Wing Ground floor (Mechanical Dept.)	Manjunath Charudatta Marathe	IT HelpDesk	H.O.D Mechanical Engg	second is 10M (SHORT CXTS IN CIRCUIT OR MOTHERBOARD)	19-07-2016	NIL	0	burnt please give requisition for new motherboard second pc re-installation done
39	3299	6. B-Wing Ground floor (West side - FE Dept.) Seminar room	Lahane Mahesh	IT HelpDesk	H.O.D First Year	Extension wire to extension instrument numbered 562 is required at NAAC office.	19-07-2016	NIL	0	Checked reset graphics card problem solved
40	3300	6. B-Wing Ground floor (West side - FE Dept.) Seminar room	chetan	IT HelpDesk	H.O.D First Year	Re installation of OS is necessary on Chetan Shinde PC. VIRUS issue.	19-07-2016	NEW MOTHERBOARD AVERTEK	2200	08-08-2016 WORK COMPLETED re installation attempted but now the motherboard seems to faulty please put requisition for new motherboard
41	3301	12. C-Wing 1st floor (East side - IT Dept.)	mayur jadhav	IT HelpDesk	H.O.D IT Engg	HP Printer P1007 Print Black line	20-07-2016	NIL	0	29-07-2016 checked and found no problem to printer
42	3304	10. C-Wing Ground floor (Mechanical Dept.)	Satej L More	IT HelpDesk	H.O.D Mechanical Engg	CAD-I lab, HMT lab, MIM lab, Telephone instruments not working	20-07-2016	NIL	0	NIL
43	3307	10. C-Wing Ground floor (Mechanical Dept.)	Manjunath Charudatta Marathe	IT HelpDesk	H.O.D Mechanical Engg	CAD-II Catta software not connecting. Please Check.	20-07-2016	NIL	0	01-08-2016 problem solved
44	3308	7. B-Wing Ground floor (East side - FE Dept.)	Mane Satyawar Sunish	IT HelpDesk	H.O.D First Year	PC is not working properly please do the needful	21-07-2016	NIL	0	02-08-2016 Antivirus updated, Temp files deleted.
45	3309	1. A-Wing 1st floor (East Side - Admission/Account)	Sameer Gajmal	IT HelpDesk	Registrar	telephone instrument not working (DOT 18p) wire removed from the socket.	22-07-2016	NIL	0	02-08-2016 Problem Solved. Cable not connected properly.
Total Expenditure = 10504.00 Rs.										
Estate Supervisor Maintenance Supervisor Project Co-Ordinator Principal Managing Trustee										

6. Problems encountered and resources required:

Problems encountered: Following problems were encountered while implementing AAP:

- Software designing : This was addressed by faculty of the institute
- Software maintenance: The issue was eventually addressed and at present ownership of maintenance is taken by IT Help Desk.
- The programme acceptability: The acceptability of the programme was a problem in the beginning. But after a while usefulness of the scheme was understood by all the users and the programme now has turned out to be very popular.

Resources required: Following resources were encountered while implementing AAP

IT resources like Intranet/Wi-Fi are required. Server of normal specification is required.

1. Title of the Practice 2: Weekly planner of individual faculty

2. Goal

Weekly planning is essential to create clear path for the development of individual faculty and student as well. It maintains a healthy balance between academic and individual growth.

- Planning can greatly reduce your stress quotient. It gives understanding of formulation of feasible plan of action.
- With the help of weekly planning long term goals are attainable.
- Weekly planning process is creating a contingency plan for unexpected problems which helps to prepared for obstacles.
- Planning weekly activities will clearly illustrate schedule of individual faculty.
- Develops self-awareness in learners and faculty.
- Effectively demonstrates to learners the rationale for changing or not changing teaching and learning activities in response to feedback.

3. The Context:

Every Saturday, our faculty plans the activities for the forthcoming week and display weekly planner on notice board. Weekly planner is derived from the academic schedule, goals or objectives of the individual faculty. Weekly planner is helpful for the time management of the faculty. It is one of the most popular choices of our faculty for their own planning. Implementation of weekly planner is important for utilization of academic schedule of the faculty for the betterment of students. With the help of weekly planner of individual faculty, students are able to know about the availability of faculty.

Initially, most of the faculty members were unaware about better management of time in institute. So it was decided to have weekly plan of individual faculty. But initially, faculty was unaware about contents of weekly plan. To overcome these issues, brainstorming sessions for faculty members were organized. After various such brainstorming sessions weekly plan format was finalized.

4. Practices:

The following tips will provide strategies to implement planning to achieve goals.

- Weekly planning can be used to clearly define goals. Writing goals into planner is beneficial for achieving success.
- After defining goal, brainstorming is done on the tasks that are required to complete in a week. Ordering all the necessary tasks into a logical order and assigning an estimated time for completing each goal is important to plan these activities.
- When preparing weekly schedule it is important to plan a daily schedule as well. Although weekly schedule is important for achieving goal, it is the daily planning that helps to track faculty progress and determine whether they are on a right track.
- Evaluation of progress can be done during day at any time to evaluate progress and make adjustments as necessary.

- At the end of every week, review is taken to determine success of planning. This will help to illustrate plan of subsequent week for any modification.

Weekly plan covers following contents:

- Lecture schedule
- Practical schedule
- Project schedule
- Tutorial schedule
- Research work (if any)
- Departmental work
- Meeting schedule
- Students interaction
- Mentoring
- Library visit schedule
- Continuous assessment

5. Evidences of Success:

Evidence of success in performance against targets, benchmarks & review of results are given below-

Before the start of this practice of weekly plan, following difficulties were faced.

1. Faculty were not able to set the priority of work
2. Proper planning of preparation of lectures was not possible.
3. Students were not able to meet the faculty for clearing their doubts in busy schedule.
4. Faculty were not able to focus on their long term goal

Once the list of strategies is created in the form of weekly plan following improvements have observed:

- Specific time is allotted for the meetings. Exceptions can be made, but only if the meeting is of extremely high importance and/or urgent.
- Faculty is able to focus on their short & long term goals.
- Students are able to meet faculty for solving their academic related doubts.
- Faculty gives proper time for their knowledge up gradation and personal growth.

Problems encountered and resources required:

There are no resources required for the weekly plan preparation.

Contact Details

Name of the Principal: Dr. Pramod S. Joshi
Name of the Institution: Gharda Institute of Technology Lavel
City: Lavel, Chiplun
Address: **Gharda Institute of Technology**
At Post - Lavel, Tal - Khed
Dist - Ratnagiri Pin Code - 415 708

Accredited Status: No

Work Phone: (+91) 2356-262795/97/98/99
Fax: 91 2356 262980
Website: [http:// www.git-india.edu.in/](http://www.git-india.edu.in/)
E-mail: principal@git-india.edu.in ; principalgitlavel@gmail.com
Mobile: 9158779250/7774864781

Evaluation Reports of the Department

Department of Mechanical Engineering

1. Name of the department: Mechanical Engineering Department

2. Year of establishment: 2007

3. Names of programmes / courses offered:

Sr. No.	Programme of Study	Description
01	UG in Mechanical Engineering	60 seats from 2007

4. Names of interdisciplinary courses and the departments/units involved:

The department of Mechanical Engineering has various courses which need the teaching from the specialized faculties of respective programmes.

Sr. No.	Department	Year	Sem.	Subject	Course Code
1	ASH Department	FE	I	Applied Mathematics-I	FEC101
2	ASH Department	FE	I	Applied Physics-I	FEC102
3	ASH Department	FE	I	Applied Chemistry-I	FEC103
4	ASH Department	FE	I	Basic Electrical & Electronics	FEC105
5	ASH Department	FE	I	Environmental Studies	FEC106
6	ASH Department	FE	II	Applied Mathematics-II	FEC201
7	ASH Department	FE	II	Applied Physics-II	FEC202
8	ASH Department	FE	II	Applied Chemistry-II	FEC203
9	ASH Department	FE	II	Structured Programming Approach	FEC205
10	ASH Department	FE	II	Communication Skills	FEC206
11	ASH Department	SE	III	Applied Mathematics-III	MEC301
12	Computer Engineering	SE	III	Data Base & Information Retrieval System	MEC306
13	ASH Department	SE	IV	Applied Mathematics IV	MEC401
14	Electronics &	SE	IV	Industrial Electronics	MEC406

	Telecommunication Engineering				
15	ASH Department	TE	V	Business Communication and Ethics	MEL501

5. Annual/ semester/choice based credit system (programme wise):

Sr. No.	Programme of Study	Type of System
1	UG in Mechanical Engineering	Semester from 2007-12
2	UG in Mechanical Engineering	CBGS from 2012-16
3	UG in Mechanical Engineering	CBCGS from 2016 to till date

6. Participation of the department in the courses offered by other departments:

Sr. No.	Department	Year	Semester	Subject	Course Code
01	ASH Department	FE	I	Engineering Mechanics	FEC104
02	ASH Department	FE	I	Workshop Practice-I	FEL101
03	ASH Department	FE	II	Engineering Drawing	FEC204
04	ASH Department	FE	II	Workshop Practice-II	FEL201
05	Civil Department	SE	III	Fluid Mechanics-I	CE-C306
06	Civil Department	SE	IV	Fluid Mechanics-II	CE-C406

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

Collaborated Institute/Industry Course Conducted/Contribution

Skill centre is in collaboration with MSSDS. It serves the purpose of skill development of students. These skills imparted are lower as compared to higher skills imparted at the undergraduate level. Department is in collaboration with YIT, Pune for sharing of available infrastructure for academic training and examination. Department has signed MoU with various organisation for the need training, project, and research.



Sr. No.	Organization	Course
01	Maharashtra State Skill Development Society's(MSSDS) Pramod Mahajan Kaushalya Vikas Udhyojakta Abhiyaan (PMKVUA)	Arc and Gas Welding
02		Basic fitting and measurement
03		Basic Wood works
04		Assistant Plumber
05	Yashaswi Institute Of Technology ,Pune	Fluid mechanics & Machinery
06		Engg Drawing-1
07		Theory of Machines
08		Engg. Mechanics
09		Thermal Engg.

8. Details of courses/programmes discontinued (if any) with reasons:

Course titles are under revision in UG Mechanical Engineering program from 2016-17. The course status will only be known from the academic year 2017-18 for which institute will receive course syllabus for second year. However, the revision received for first year engineering for academic year 2016-17 indicates up-gradation in the content and revision of course title. None of the course has been dropped.

9. Number of teaching posts:

Sr. No.	Designation	Sanctioned	Filled
1	Professor	2	0
2	Associate Professors	4	1
3	Asst. Professors	10	16

10. Faculty profile with name, qualification, designation, specialization:
(D.Sc. /D.Litt. /Ph.D. / M. Phil. etc.,)**Regular faculty list:**

Sr. No.	Name	Photo-graph	Qualification	Designation	Specialization	No of years of experience
1	Prof.Omkar A. Jarali		M.E.(Mechanical-Production)	Head of Department	Manufacturing & Production Technology	11
2	Prof. Bharatesh A. Danawade		M.E.(Mechanical) Ph.D Pursuing	Associate Professor	Production Management & Composit	19
3	Prof. Vikas R. Khalkar		M.E (Mechanical) Ph.D Pursuing	Assistant Professor	Design Engineering, Mechanical	14
4	Prof. Virbhadr M. Swami		M.E.(Heat Power)	Assistant Professor	Heat Power Engineering	9
5	Prof. Sameer S. Gajmal		M.E (Production)	Assistant Professor	Production Engineering	12

6	Prof. Rohan R. Kalamkar		M.E. (Manufacturing System), Ph.D Pursuing	Assistant Professor	Manufacturing Engineering	7
7	Prof. Deepak M. Dubbawar		M.E.(Design)	Assistant Professor	Design Engineering	8
8	Prof. Pravin N. Jadhav		M.E. (Machine Design)	Assistant Professor	Machine Design	6
9	Prof. Amey V. Phanse		M.E.(Design)	Assistant Professor	Design Engineering	2
10	Prof. M. N. Lahane		M. Sc.	Assistant Professor (shared)	Quantum Mechanics, Energy	11
11	Prof. C. S. Shinde		M. Sc., NET, Ph.D Pursuing	Assistant Professor (shared)	Energy, Battery Cells	7
12	Prof. S. S. Mane		M. A., Ph.D Pursuing	Assistant Professor (shared)	English Language Teaching, English for Specific Purpose	7

Temporary/ADHOC faculty list:

Sr. No.	Name	Photograph	Qualification	Designation	Specialization	No of years of experience
1	Prof. Pranit M. Patil		M.E.(Design)	Assistant Professor	Design Engineering	4
2	Prof. Jitendra Y. Acharya		M.Tech.(Production)	Assistant Professor	Production Engineering	7
3	Prof. Priyanka P. Pawaskar		M.E.(Machine Design)	Assistant Professor	Machine Design	5.5
4	Prof. Vinod K. Patil		M.E.(Heat Power)	Assistant Professor	Heat Power	7
5	Prof. H.R. Kanhere		M.TECH.(Design)	Assistant Professor	Machine Design	2

Note: Institute does not offer PG & PhD programme.

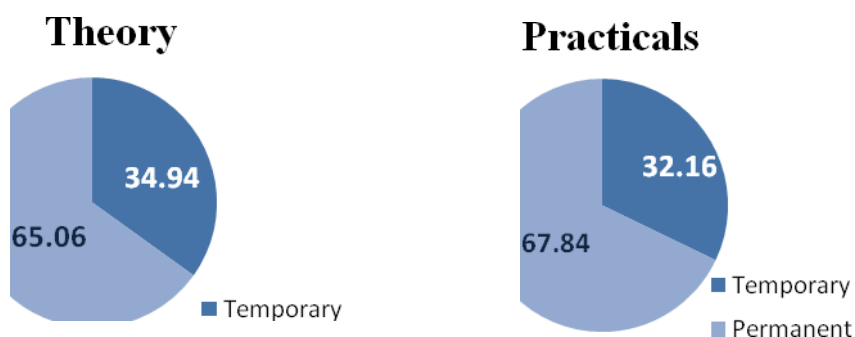
11. List of senior visiting faculty:

Mechanical department appointed senior visiting faculties in Year 2014-15 & 2015-16 to orient the students on the subject of Renewable Energy and to participate in Engineering project work as well as to bring students into the flow of employment recruitment process

Sr. No.	Name	Subject Expertise	Academic Year
1	Prof. Sanjay R. Bhandari	Thermal and Solar Engineering	2014-15
2	Mrs. Anuradha Sonavane	Communication Skills and Business Communication	2015-16

12. Percentage of lectures delivered and practical classes handled (programme wise) by Temporary faculty:

Department	% of lectures delivered	% of practical classes handled
Mechanical Engineering	34.94	32.16



Note- The temporary faculty percentage appears 33%. It is due to the fact that appointment or approval authority is University of Mumbai. As per the norms faculty does not go into category of permanent faculty until clear vacancy as per the reservation policy or roster exist. Institute is required to treat these faculty members as temporary till such clear vacancy become available as per norms of University.

13. Student -teacher ratio: (Academic Year: 2016-17)

$$\begin{aligned}\text{Student -teacher ratio} &= 285:17 \\ &= 16.76\end{aligned}$$

14. Number of academic support staff (technical) and administrative staff; Sanctioned and filled:

	Sanctioned	Filled
Academic Support Staff (Technical)	9	7
Administrative Staff	NA	NA

Note: Total 22 number of administrative staff and 60 number of house keeping staff are available in the institute and are shared by all departments.

15. Qualifications of teaching faculty with D. Sc./ D. Litt. / Ph. D./ M. Phil. / PG.:

Qualification	No. of Staff
Ph. D faculties	0
Ph. D pursuing faculty	5
PG faculty	12
UG faculty	0

16. Number of faculty with ongoing projects from funding agencies and grants Received s:**a) National**

The departmental faculty members have submitted research proposals to the different government funding agencies. In the academic year 2015-16, University of Mumbai accepted one research proposal. The title of research topic is “Estimating Hydrogen Storage Properties of Metal Hydrides.” It is proposed to develop new efficient method for increasing the weight and extent of H₂ release from hydrogen storage materials.

Sr. No.	Name of Faculty	Name of Project	Grant Received
1.	Prof. R. R. Kalamkar	Estimating Hydrogen Storage Properties of Metal Hydrides (Project Number: 387)	Rs.35000 /-

b) International

Sr. No.	Funding Agency	Name of Project	Grant Received
1	NIL	NIL	NIL

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total Grants received:

Our institute authority is motivating faculties to prepare their research projects or proposals and submit to various agencies for funding. The following projects received the benefit of such practice. Most of the work carried out on wood-steel composite and hydrogen storage with the help of received grant and available infrastructural support in institute.

Sr. No.	Funding Agency	Name of Project	Grant Received
1	UGC/University of Mumbai	Study of size Effect of Wood Beam on Flexural Strength of Wood Reinforced Steel Tube (Project Number: 331)	Rs. 15000/- (In AY 2012-13)
2	UGC/University of Mumbai	Shearing strength of adhesive in wood-steel composites (Project Number: 364)	Rs. 40000/- (In AY 2014-15)
3	UGC/University of Mumbai	Estimating Hydrogen Storage Properties of Metal Hydrides (Project Number: 387)	Rs.35000/- (In AY 2015-16)

18. Research centre / facility recognized by the university:

To establish research centre recognized by university/agency, the institute needs to run post graduate courses in the institute. Being UG institute, efforts are underway to carryout research activities. Faculty members of the department are using the departmental facilities and also the research centres of the other universities/ institutes for their needs.

Recently, Gharda Scientific Research Foundation (GSRF) has established a centre at the institute with an objective to support research activities.

19. Publications:**a) Publication per faculty:**

- Number of papers published in peer reviewed journals (national /international) by faculties and students. Number of publications listed in International Database (For

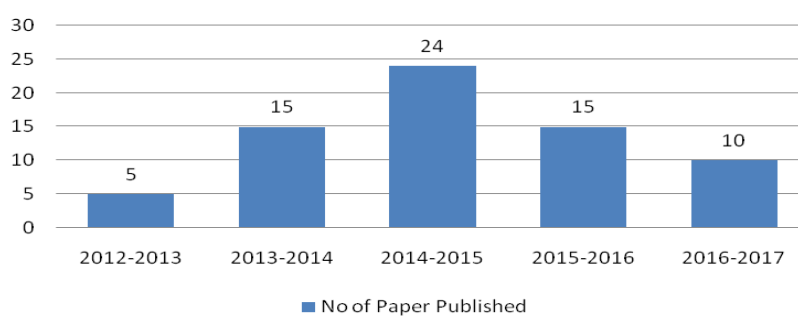
Eg: Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)

Faculty publication details:

S r N o	Name of Facult y	2012-13				2013-14				2014-15				2015-16				2016-17				T o t a l
		I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	
1	Prof. B.A. Danawade	1				3				1	1			1								07
2	Prof. A.C. Gangal	4				1				1												06
3	Prof. V.R.K halkar									1								5				6
4	S.S.Ga jmal									2												2
5	Prof. P.M.P atil					4				3				4			1					12
6	Prof. D.M. Dubbarwar									1				1				1				3
7	Prof. P.N.Ja dhav					1				2												3
8	Dr. Pramod S. Joshi		1				1								3							5
9	Prof. R.R.K alamkar										1								1			2

10	Prof. J.Y.Acharya									2											2
11	Prof. B.K.Kumbhar									1											1
12	Prof. S.B.Gawas									1				1							2
13	Prof. Rahul Krishna					1															1
14	Prof. K.G.Nikam													1							1
15	Prof. P.P. Pawaskar									2				1					1		3
16	Prof. Mane S S										2		3	3	1		1				10
17	Prof. O.A.Jarali																	1			1
18	Prof. V. K. Patil																		1		1
Total		5	1	0	0	10	1	0	0	17	4	0	3	12	4	0	2	7	2	1	69

Research Publication by Faculty



Faculty publication with impact factor:

Impact factor obtainable at globalimpactfactor.com is quoted

Academic Year 2016-17

Sr.No.	Name of Faculty	Name of Journal	Impact Factor
1	Prof. V.R.Khalkar	Journal of Vibroengineering	0.78
2	Prof. V.R.Khalkar	Journal of Vibroengineering	0.78
3	Prof. V.R.Khalkar	Materials Today Proceeding Journal (Elsevier, Science direct)	-
4	Prof. V.R.Khalkar	Materials Today Proceeding Journal (Elsevier, Science direct)	-
5	Prof. V.R.Khalkar	Transylvanian Review	0.034
6	Prof. D.M.Dubbawar	International Journal of Scientific Review and Research in Engineering and Technology, Vol.1(4), May-June 2016	2.134
7	Miss. P.P.Pawaskar	International Research Journal of Engineering and Technology, Vol.3, Issue 6	4.45

Academic Year 2015-16

Sr. No.	Name of Faculty	Name of Journal	Impact Factor
1	B.A.Danawade	Steel and Composite Structures 19(3)	1.796
2	D.M.Dubbawar	International Journal of Scientific Review and Research in Engineering and Technology Vol.1(4)	2.134
3	P.M.Patil	International Journal for Research in Applied Science & Engineering Technology Vol.3, Issue XI	5.969
4	P.M.Patil	International Research Journal of Engineering & Technology Vol.3, Issue 4	4.45

5	P.M.Patil	International Research Journal of Engineering & Technology, vol.3, Issue 4	4.45
6	K.G.Nikam	Internal Journal of Research in Advent Technology Vol.4, No.4, 2321-9637	2.865
8	Prof. Mane S. S.	Research Scholar: An International Referred e-Journal of Literary Explorations	0.998
9	Prof. Mane S. S	Research Journal of English Language and Literature (RJELAL) ISSN: 2321-3108	5.002
10	V.R.Khalkar	International Journal of Engineering Sciences & Research Technology, Vol.4, Issue 2	4.116
	P.N.Jadhav	International Journal of Engineering Sciences & Research Technology, Vol.4, Issue 2	4.116
	B.K.Kumbhar	International Journal of Engineering Sciences & Research Technology, Vol.4, Issue 2	4.116

Academic Year 2014-15

Sr.No.	Name of Faculty	Name of Journal	Impact Factor
1	B.A.Danawade	SAE International, 2014-01-1053	0.34
2	B.A.Danawade	International Journal of Engineering and Technology, Vol 5, No 6	0.847
3	A.C.Gangal	Materials Research Express 1 (2014) 015501	0.968
4	S.S.Gajmal	International Journal of Latest Technology in Engineering, Management and Applied Science Vol.IV, Issue II	2.115
5	P.P.Pawaskar	International Research Journal of Engineering & Technology	4.45
	P.M.Patil	International Research Journal of Engineering & Technology	4.45
6	P.M.Patil	International Journal of Science and Research, Vol.3, Issue 6	3.358

7	J.Y.Acharya	International Journal of Innovations in Engineering Research and Technology, Vol.1, Issue 1	3.535
8	S.B.Gawas	International Journal of Engineering Sciences & Research Technology, Vol.3, Issue 8	1.852
	P.M.Patil	International Journal of Engineering Sciences & Research Technology, Vol.3, Issue 8	1.852
9	J.Y.Acharya	International Journal of Innovations in Engineering Research and Technology, Vol.1, Issue 1	3.535
10	P.M.Patil	International Journal of Modern Engineering Research, Vol.4, Issue 11	1.227
11	P.M.Patil	International Journal of Scientific and Engineering Research, Vol 6, Issue 2	3.8
12	P.N.Jadhav	International Journal of Enhanced Research in Science Technology & Engineering, Vol.3, Issue 9	2.371
13	P.P.Pawaskar	International Journal of Enhanced Research in Science Technology & Engineering, Vol.3, Issue 8	2.371
14	D.M.Dubbawar	International Journal of Innovations in Engineering Research and Technology, Vol.2, Issue 1	3.535
15	B.A.Danawade	International Conference on Advances in Manufacturing and Materials Engineering, AMME, 5 (2014) 96-105	--
	R.R.Kalamkar	International Conference on Advances in Manufacturing and Materials Engineering, AMME 5 (2014) 96-105	--

Academic Year 2013-14

Sr.No.	Name of Faculty	Name of Journal	Impact Factor
1	B.A.Danawade	SAE International, 2013-01-1179	0.34
2	Rahul Krishna	International Journal of Research in Aeronautical and Mechanical Engineering, Vol 1, Issue 7	2.017
3	P.M.Patil	International Journal of Engineering Research and Application, Vol 3, Issue 3	1.69
4	P.M.Patil	International Journal of Engineering Research & Technology, Vol 2, Issue 11	1.76
5	P.M.Patil	International Journal of Engineering Research & Technology, Vol 2, Issue 5	1.76
6	P.M.Patil	International Journal of Application or Innovation in Engineering & Management, Vol 2, Issue 12	5.663
7	P.N.Jadhav	International Journal of Latest Trends in Engineering and Technology, Vol 3, Issue 1	4.49
8	A.C.Gangal	International Journal of Management, Information Technology and Engineering Vol.1, Issue 3, 167-180	0.69

Academic Year 2012-13

Sr.No.	Name of Faculty	Name of Journal	Impact Factor
1	B.A.Danawade	International Journal of Engineering and Innovative Technology (IJEIT) 2(1)	0.574

List of patents awarded to faculties:

Institute is looking forward for patent outcome out of the ongoing research work.

List of scientific/ technical books written by faculty members:

The faculty has prepared laboratory manuals and study material required for internal circulation among students. The study material and lab manuals are kept in departmental library for students' reference.

Sr. No.	Author/s Name	Title of Books	Details
1	Prof. B.A. Danawade	Study of Effect of Tolerance on Flexural Strength of Wood Reinforced Steel Tube	Selected as a white paper/ course material by IDC Technologies, USA.
2.	Prof. Khalkar V. R.	Lab manual of Mechanical Vibration	Guide for conducting experiments of Mechanical Vibrations
3.	Prof. Khalkar V. R.	Mechanical Vibration	Notes for private circulation among students
4	Prof. Dubbawar D. M.	Fluid Mechanics	Notes for private circulation containing basic concept of fluid mechanics and numerical
5	Prof. Dubbawar D. M.	Fluid Mechanics Lab Manual	Guide for conducting basic experiments of Fluid Mechanics
6	Prof. Dubbawar D. M.	Finite Element Analysis	Notes for private circulation containing basic concept of Finite Element Analysis and numerical
7	Prof. Dubbawar D. M.	Operation Research	Notes for private circulation containing basic concept of Operation Research and numerical.
8	Prof. Dubbawar D. M.	Strength of Materials Lab Manual	Guide for conducting basic experiments of Strength of Materials
9	Prof. Gajmal S. S.	Engg. Mechanics	Notes for private circulation containing basic concept of Engineering Mechanics and numerical
10	Prof. Gajmal S. S.	AutoCAD Lab Manual	Step by step guide to learn AutoCAD for beginners

Note: All above is study material for internal circulation & printed by Institute.

20. Areas of consultancy and income generated:

Sr. No.	Academic Year	Area of Consultancy	Income generated (Till Date) in Rs.
1	2013-14	Ultrasonic testing (Flaw detector machine)	2,000/-
2	2013-14	CFD Workshop	3,200/-
3	2014-15	YIT, Kolhapur	29,118/-
4	2014-15	Workshop Services	70,208/-
5	2015-16	YIT, Kolhapur	33,800/-
6	2015-16	CNC Training	18,000/-
7	2015-16	CFD Workshop	3,670/-
8	2015-16	Workshop Services	49,100/-

21. Faculty as members in

a) National committees b) International committees c) Editorial boards

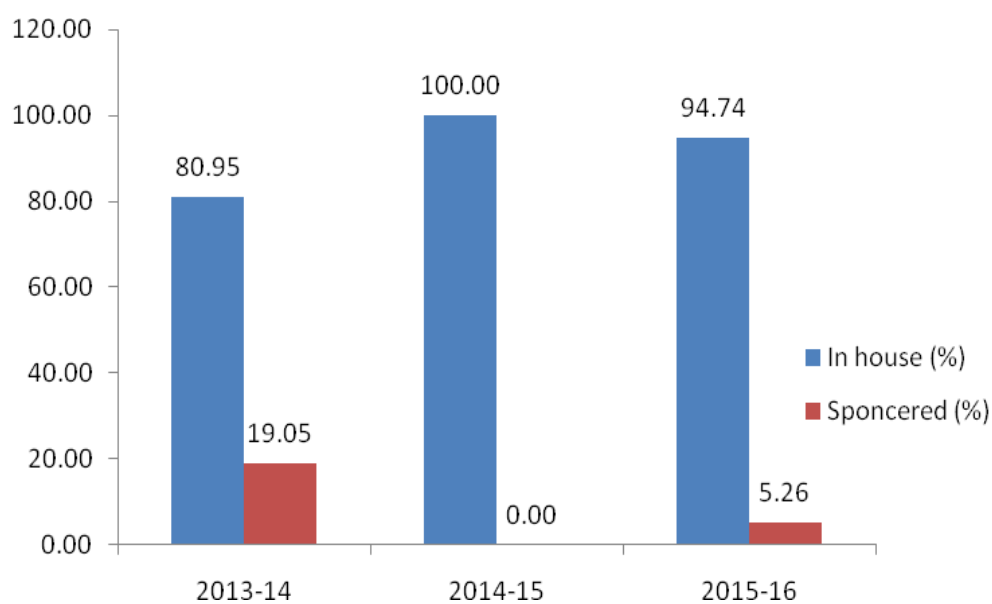
Sr. No.	Name of faculty	Committee
1	Prof. B.A Danawade	Recognized Reviewer, Steel and Composite Structures, TechnoPress
2.	Prof. B.A Danawade	Recognized Reviewer, Construction and Building Material, Elsevier
3.	Prof. Pranit M. Patil	1. Member of Reviewer Board, International Journal of Research-Granthalaya- (ISSN-2350-0530)
		2. Member of Editorial Board, International Journal of Latest Research in Engineering and Technology (ISSN:2454-5031)
		3. Member of Editorial Board, International Journal of Latest Research in Engineering and Technology (ISSN:2454-5031)
4.	Prof. Jarali O. A.	Member of Indian Society for Technical Education LM No. 51021
5.	Prof. Swami V. M.	Member of Indian Society for Technical Education LM No. 78721
6.	Prof. Danawade B. A.	Member of Indian Society for Technical Education LM No. 29013, Member of SAE International
7.	Prof. Khalkar V. R.	Member of Indian Society for Technical Education LM No. 50877

8.	Prof. Kalamkar R. R.	Member of Indian Society for Technical Education LM No. 76729
9.	Prof. Dubbawar D. M.	Member of Indian Society for Technical Education LM No. 78208
10.	Prof. Gajmal S. S.	Member of Indian Society for Technical Education LM No. 76734
11.	Prof. Patil P. M.	Member of Indian Society for Technical Education LM No. 98120

22. Student projects:

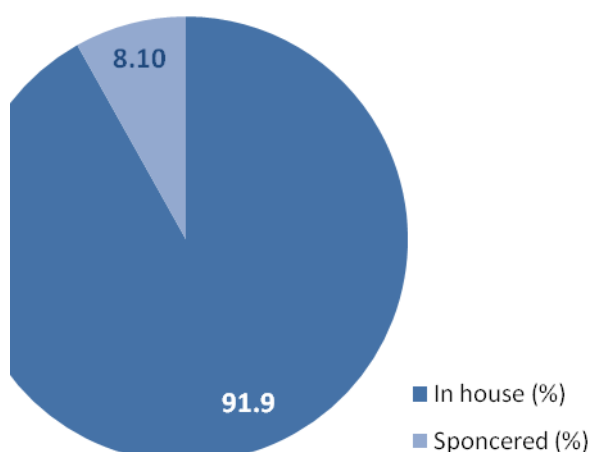
The most awaited area for the student to apply theoretical knowledge in actual practise. Final year student work hard to achieve qualitative outcomes from the project under the guidance of faculties. Faculties and students are striving hard for various research projects for enhancement of knowledge and benefit of society.

Sr. No.	Year	% In house projects (Non Sponsored)	% Outside projects (Sponsored)
1	2016-17	94	06
2	2013-14	80.95	19.05
3	2014-15	100.0	00.00
4	2015-16	94.74	05.26



- a) Percentage of students who have completed in-house projects including interdepartmental/programme = 91.89 %
- b) Percentage of students placed for projects in organizations outside the institution
i.e. in Research laboratories/Industry/other agencies = 08.11 %

Student Projects



23. Awards / Recognitions received by faculty and students:

Faculties and students of our department have participated in many national and international level technical events. They are well recognized by organisers and shown outstanding performance in respective events.

Sr. No.	Year	Name of Faculty/Student	Awards/Recognition
01	2013-14	1. Abhishek Naik 2. Akash Singh 3. Vivek Vishwakarma 4. Sandeep Yadav	Participated and won 2 nd prize in Project Presentation in national level technical symposium "SCINTILLA 2K14" at RMCET, Ambav
02	2013-14	1. Abhishek Naik 2. Akash Singh 3. Vivek Vishwakarma 4. Sandeep Yadav	Participated and won prize in Project Presentation in national level technical event "SHODH 2K14" at GIT, Lavel.

03	2013-14	1. Sachin Lad 2. Virendra Mhatre 3. Pooja R Patil 4. Komal Parab	Participated and won first prize in Paper Presentation in national level technical event “SHODH 2K14” at GIT, Lavel. On 22 nd and 23 rd March 2014
04	2013-14	1. Sachin Lad 2. Virendra Mhatre 3. Pooja R Patil 4. Komal Parab	Participated and won prize in Model Presentation in national level technical event “SHODH 2K14” at GIT, Lavel. On 22 nd and 23 rd March 2014
05	2013-14	1. Sachin Lad 2. Virendra Mhatre 3. Pooja R Patil	Participated and won prize in national level technical event “AVALANCHE 2K14” at BATU, Lonere. On 10 th and 11 th April 2014
06	2013-14	1. Prof. B.A. Danawade	Selected as a white paper/ course material by IDC Technologies, USA
07	2013-14	1. Prof. R. R. Kalamkar	2 nd prize in national conference held at LTCOE, Navi Mumbai January 2013
08	2014-15	1. Sarvesh Pramod Khandke 2. Sahadev Naredra Kolambkar 3. Sumit Baburao Kamble 4. Sanket Shahu Mhamunkar	1 st prize in national level project competition “SHODH 2015 ”held on 19 th & 20 th March 2015 at GIT,Lavel
09	2014-15	1. Sarvesh Pramod Khandke 2. Sahadev Naredra Kolambkar 3. Sumit Baburao Kamble 4. Sanket Shahu Mhamunkar	2 nd prize in national level project competition “Tantragyan”held on 7 th April 2015 at LTCOE, NaviMumbai
10	2015-16	1. Subodh Gaikwad 2. Suyash Chalke	Participated and won 2nd prize in national level technical event at RSCOE, Pedhambe.

11	2015-16	1. Prof. B.A. Danawade	Reviewer : Construction and Building Material Elsevier Journal
12	2016-17	2. Prof. B.A. Danawade	Reviewer : Steel and Composite Structures, TechnoPress

24. List of eminent academicians and scientists / visitors to the department:

To enhance the knowledge of students as well as faculty many eminent personalities are invited by our department consistently.

Sr. No.	Name of the Person	Designation	Place of Work	Purpose of Visit
1	Mr. Pratap K. Desai	Chairman ISTE, Delhi	ISTE, Delhi Govt. Polytechnic Kolhapur	Inauguration of ISTE staff convention 2013
2	Dr Shantanu Chakrabarti	1. Former Head Research Applications, Research & Development, 2. Visiting Professor at IIT, Kharagpur under the INAE scheme	Academy of Scientific and Innovative Research (AcSIR), a wing of the Council of Scientific and Industrial Research, at the National Metallurgical Laboratory, Jamshedpur	1. Department mentoring and research orientation 2. As a resource person for orientation programme on "Excellence in Teaching"
3	Mr. Sanjay Bhandari	Director	Solar works pvt.ltd. Pune	To orient faculty members on the subject of Solar Energy and to participate in teaching learning
4	Dr. S. S. Bhagwat	Professor	Institute of Chemical Technology, Mumbai	To share the teaching learning experience and to train faculty how to teach

				effectively
5	Dr. K. Prasad	Professor	FAMT, Ratnagiri	Introduction to CFD analysis as a effective tool for solution of engineering problems
6	Mr. Annasaheb Bhosale	Manager, Marketing	SEED Infotech, Pune	Soft Skills
7	Mr. Amol Lowalekar	Factory Manager	Hindustan Unilever, Lote	Expectation of companies from fresh engineering graduates
8	Mr. Amit Thakur	HR Manager	Hindustan Unilever, Lote	Expectation of companies from fresh engineering graduates
9	Mr. Vinit Dholye	Supply & Network Planning Manager	Hindustan Unilever, Mumbai	Resume Writing
10	Mr. Shrikant Bidwai	Manager, Marketing	CADCAMGURU, Pune	Design manufacturing & Integration

25. Seminars/ conferences/workshops organized & the source of funding

a) National b)

International:

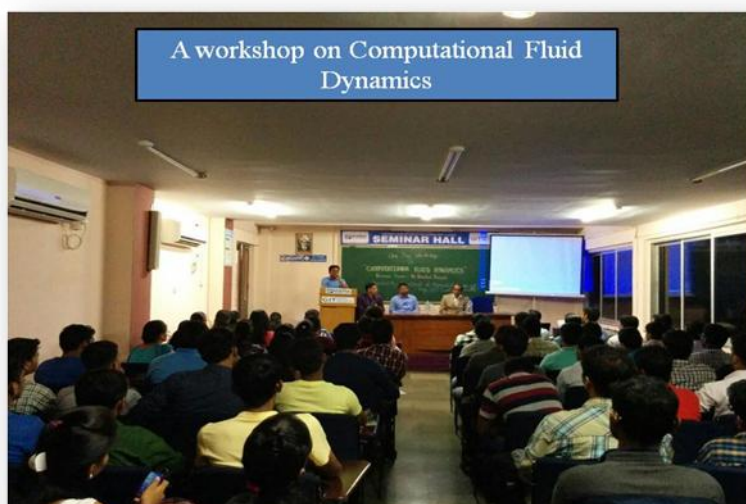
Sr. No.	Seminars/ Conferences/Workshops Organized	Source of Funding
01	Two week ISTE main workshop on “Engineering Thermodynamics” Under national level mission education on 11 th to 21 st December 2012	ISTE , MHRD govt of India
02	Two days ISTE Maharashtra-Goa Annual Staff Convention 15 th & 16 th November 2013	ISTE, New Delhi
03	Two week ISTE main workshop on “FLUID MECHANICS” Under national level mission education on 22 nd to 30 th May 2014	ISTE , MHRD govt of India
04	Two week ISTE main workshop on “Control System” Under national level mission education on 2 nd to 12 th December 2014	ISTE , MHRD govt of India

05	One Day workshop on CFD on 10 th September 2015 at GIT,Lavel	Self Funded
06	One week workshop on “CNC Operation, Programming & Maintenance” on 11-16 January, 2016 at GIT,Lavel	Self Funded
07	Workshop cum competition in our college Gharda Institute of Technology, Lavel (M.S.) On Vehicle Dynamics and Engine Automation on dated 15 th , 16 th & 17 th January 2016.	Self Funded



Inaugural Ceremony of 16th ISTE Maharashtra-Goa Annual Staff Convention 2013.

14th ISTE Maharashtra-Goa Annual Staff Convention 2013 was held during 15th – 16th November, 2013 on “Recent Advances in Engineering & Technology” at GIT. The event attracted 150 participants from Maharashtra and nearby states. It was the first ever ISTE official event in konkan region of this scale. We were able to actively engage with and reach out to a wider range of stakeholders across the Maharashtra and nearby states. The inaugural function was held on 15th November 2013 at 11.50 am at GIT Auditorium. The chief guests were Mr. U. Vidyasagran, Vice President, Operation & Special Projects, Gharda Chemicals Limited, Mr. Pratapsinh K. Desai, Vice President, ISTE, New Delhi, Mr. Mahesh A. Kakade, Chairman, ISTE Maharashtra-Goa, Mr. Ranjeet K. Sawant, Secretary, ISTE Maharashtra-Goa, Dr. Makarand V. Karkare, Principal, GIT, Mr. Ganesh M. Kadam, Convener. The convention was inaugurated by enlightening the light of knowledge and Saraswati Poojan.



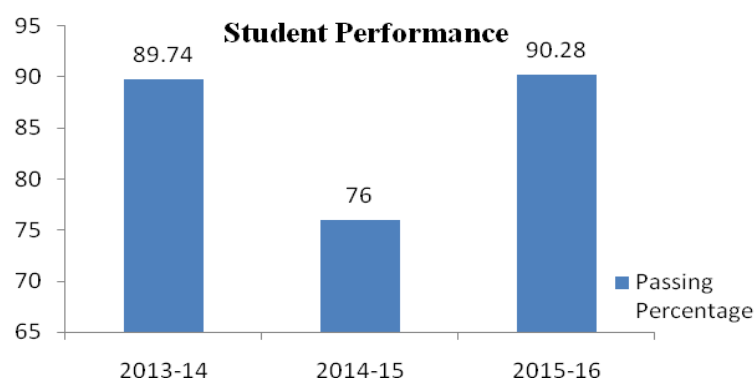
A glimpse of workshop on CFD on 10th September 2015 at GIT, Lavel

26. Student profile programme/course wise:

Institute is serving in rural area of Konkan region which is having low density of population. The awareness of engineering education is low amongst the local population which results less preference for mechanical engineering by female aspirants. However, Mechanical Engineering is in high demand amongst the male aspirants.

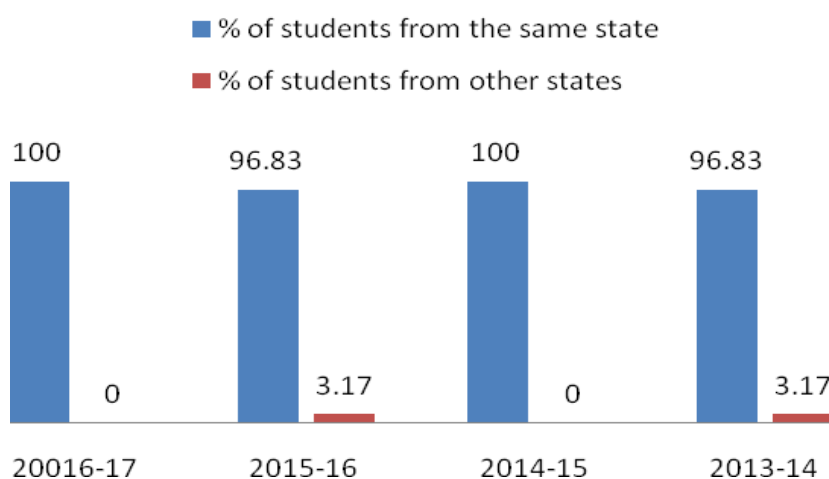
Academic Year	Applications received	Selected	Enrolled		Pass Percentage
			*M	#F	
2016-17	69	69	66	03	--
2015-16	72	75	70	05	90.28
2014-15	82	82	79	03	76
2013-14	78	78	72	06	89.74

* M = Male #F = Female



27. Diversity of students:

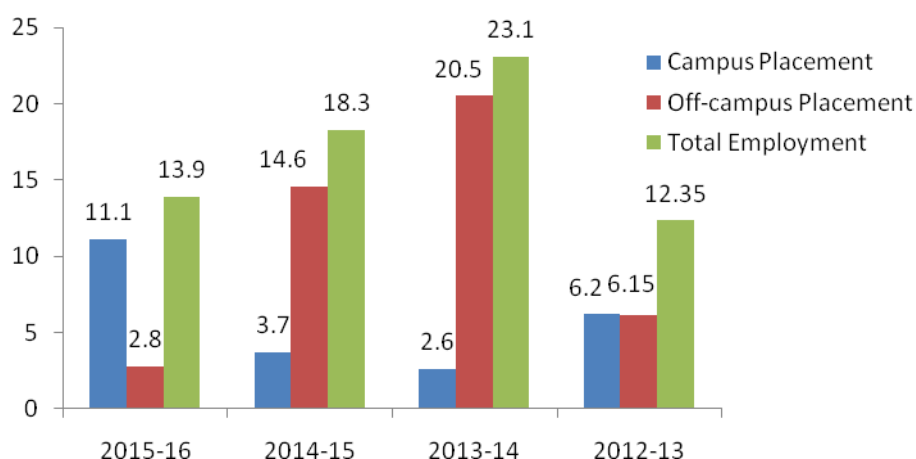
Department: Mechanical Engineering			
Academic Year	% of students from the same state	% of students from other states	% of students from abroad
2016-17	100	00	00
2015-16	96.83	3.17	00
2014-15	100	00	00
2013-14	96.83	3.17	00

Diversity of students**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?**

Year	Name of competitive examinations	No. Of Students
2015-16	GATE 2016	1
2014-15	GATE 2015	1

29. Student progression:

Students Progression		% Against enrolled				
		Academic Year				
		2016-17	2015-16	2014-15	2013-14	2012-13
UG to PG		-	1.39	2.44	2.56	6.15
Employed	1) Campus selection	17.39	27.77	4.61	4.65	6.2
	2) Other than campus recruitment	-	27.77	43.07	88.37	6.15
Entrepreneurship/Selfemployment		-	-	-	-	-

**30. Details of infrastructural facilities:****a) Departmental library:**

1. Area of the library (in Sq. Mts.): 22.23 Sq meter
2. Seating capacity: 06 Students
3. Library holdings:

Library Holdings	No. of Titles	No. of Volumes
Books	124	01
Journals/periodicals	6 (Available in central library)	NIL
Newspapers	02	01
E-resources	02	02
Project reports	135	01
Seminar reports	75	01
Subject notes	30	01

b) Internet facilities for staff & students:

- 1) ISP – BSNL and Deep Network
- 2) Leased line: 34 Mbps
- 3) Compression ratio: 1:1
- 4) Wi-Fi facility: Yes
- 5) Firewall: Yes

c) Class rooms with ICT facility:

S.N.	Room Description	Usage	Size in (Sq. Mtr)	Capacity	Rooms Equipped with
1	C-01-10	Class room for 2nd year	72.77	70	Green Board, CCTV
2	C-01-11	Class room for 3rd year	72.93	70	Green Board, CCTV, Smart Board, LCD Projector
3	C-01-12	Class room for 4th year	74.01	70	LCD, Screen, Green Board, CCTV
4	C-01-18	Conference hall	38.44	30	White Board, LCD
5	E-TPO	Seminar Hall	88	100	LCD Projector, Sound System

d) Laboratories:

Lab No	Curriculum Lab Description	Use Exclusive/ Shared	Space (Sq.m)	Lab Incharge	Investment In Rs.
1	Thermal Engg. Lab	Exclusive	40.67	Prof. Pawaskar P. P	3,71,239/-
2	Refrigeration & Air Conditioning lab	Exclusive	38.06	Prof. Pawaskar P. P	85,556/-
3	Automobile & IC engine Lab	Exclusive	72.73	Prof. Patil V. K.	14,20,418/-
4	Heat & Mass Transfer Lab	Shared	73.71	Prof. Patil V. K.	4,52,334/-
5	Mechantronics	Shared	57.04	Prof. Nikam K.	9,97,099/-

	Lab			G.	
6	MMM Lab			Prof. Nikam K. G.	6,75,754/-
7	Fluid Mechanics Lab	Shared	122.62	Prof. Dubbawar D. M.	1,93,863/-
8	Hydraulics Lab	Shared		Prof. Dubbawar D. M.	5,37,631/-
9	Materials Technology Lab	Shared	219.54	Prof. Kalamkar R. R.	6,75,871/-
10	Strength of Materials Lab	Shared		Prof. Kalamkar R. R.	10,25,704/-
11	CAD Lab-2	Exclusive	38.44	Prof. Jadhav P. N.	23,90,619/-
12	CAD Lab-1	Exclusive	46.02	Prof. Patil P. M.	12,05,267/-
13	Drawing Hall	Exclusive	144.45	Prof. Phanse A. V.	1,95,495/-
14	Engineering Mechanics	Exclusive	198.8	Prof. Khalkar V. R.	2,02,044/-
15	TOM & vibration Lab	Exclusive		Prof. Khalkar V. R.	4,71,783/-
16	Workshop	Exclusive	887.74	Prof. Jadhav P. N.	54,94,899/-
Total Investment is approx. One Crore Sixty Four Lac					1,63,95,582 /-

31. Number of students receiving financial assistance from college, university, Government or other agencies:

Sr. No	Financial assistance from (Agency)	No. of students benefited			
		2016-17	2015-16	2014-15	2013-14
1	GOI (As per reservation policy)				
	a) SC/ST	30	28	29	29
	b) OBC/SBC	94	95	90	92
	c) Minorities	34	25	27	26
	d)EBC	46	39	39	41
	d) VJ/NT	23	18	21	17

2	TFWS- Institute	13	07	8	04
3	GIT Scholarship	9	9	7	7
4	Ramanathan Endowment award	-	1		
5	GIT Hostel 10% concession	11			
6	Sansthan Shridevi Bhargavram Scholership		04	02	

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Academic Year: 2016-17					
Sr. No .	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
01	Seminar on Design and Manufacturing Integration	Shrikant Bidwai Manager Marketing CAD/CAM GURU	4/08/2016	1Day	B.E.Mech 50
02	Expert Lecture on “Resume Writing:	Mr.Vinit Dholye, Planning manager, Hindusthan Unilever Limited, Mumbai	5/08/2016	1Day	B.E.Mech 23
03	CATIA VSR 16- Training course	Mr.Amey Nijasure, Asst.Prof. PIIT ,Panvel	27/08/2016 & 28/08/2016	16 Hours	B.E.Mech
04	A guest lecture on Soft Skills	Annasaheb Bhosale, SEED Infotech Ltd, Pune	30/08/2016	1 day	S.E &T.E. Mech.
05	How to prepare for exams and managing stress	Mrs.Sneha N Sadvilkar Counsellor - GIT	5/10/2016 & 6/10/2016	4 Hours	S.E.Mech 80

Academic Year: 2015-16					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
01	Fundamentals of Computational Fluid dynamics	Dr. Kaushal Prasad, F.A.M.T Ratnagiri	15/09/2015	1 day	100
02	Workshop on Vehicle dynamics & Engine Automation.	Robo Edutech India Pvt. Ltd.	15-17/01/2015	3 Days	40
03	Workshop on CNC operation, Programing, & Maintenance	Prof. S.S. Gajmal, Prof. P.N.Jadhav, Prof. K.G.Nikam	11/01/2016 to 16/01/2016	1 week	50
04	Guest Lecture on “ Interview Skills”	Prof. Anuradha Sonawane	04/09/2015	1 Hour	52
05	Guest Lecture on “ Soft Skills”	Prof. Anuradha Sonawane	11/09/2015	1 Hour	45
06	Guidance for Placement	Prof. P.N. Jadhav	03/02/2016	2 Hours	27
07	Guidance & Group discussion	Prof. P.N. Jadhav	31/07/2015	1 Hour	54
08	Sex Education	Smt. Neeat Khajuriya	20/01/2016	1 Hour	40
09	Finance Management	Smt. Ujjwal Mhatre	22/01/2016	1 Hour	40
10	Road Safety & Laws	Mr. Tayade	23/01/2016	1Hour	40
Academic Year: 2014-15					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
01	Kokan Che CEO	Mr. Nilesh Sarawate,	27/02/2015	1 Day	33

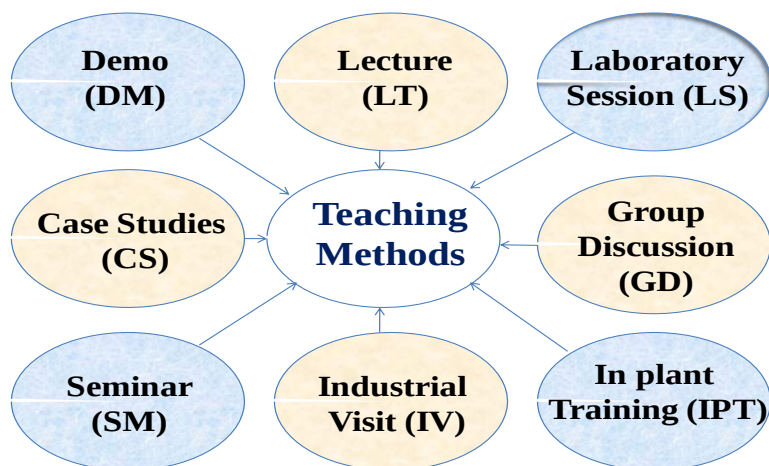
		IEIBS, Akademia Oriental school of Business			
02	Seminar on Corporate World	Dr. Sanjay Bhandari, HOD, Mech Dept, RMCET Devrukh	26/02/2015	1 day	25
03	3D printing & Additives Manufacturing	Mr. Ameya S. Khambete, Manager, CAD CAM Guru	04/02/2015	1 Day	68
04	CAE Awareness	Mr. Nachiket U. Phadke, Chief Engineer	02/02/2015	1 Day	48
05	Lecture on Career Guidance in Oil & Gas industries	Mr. Vasant Mystri	30/09/2014	1 Day	44
06	First-aid	Dr. Sadhana Jarali	19/01/2015	1 Hour	40
07	Self-Defence	Mr. Sairaj Tupange	19/01/2015	1 Hour	40
08	Involvement of youth in national development	Dr. Hemant Chalke	20/01/2015	1 Hour	40
09	Consumer Act & Awareness	Adv. Abhijit Barve	24/01/2015	1 Hour	40
10	Importance of Yoga & Demonstrations	Mr. Shantaram Joshi & Me. Ranvir Sawant	22/01/2016	1 Hour	40
Academic Year: 2013-14					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students

1	Workshop on PLC software and Hydraulic & Pneumatic Kit	Prof. V.M. Swami, Assistant Professor, GIT Lavel	12-13/07/2013	2 Days	22
2	Lecture on “Career in Defence force for potential Engineers	Captain. S.G. Balchandra, Captain 3/1 Gurkha rifles.	23/09/2013	2 Days	135
3	Lecture on “Ratnagiri District Industries Conference	Mr. Ramchandra Bhogale, North Ratnagiri Industry Association	18/01/2014	1 Day	21
Academic Year: 2012-13					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
01	Lecture on “Career in Defence force for potential Engineers	Captain. S.G. Balchandra, Captain 3/1 Gurkha rifles.	24/08/2012	1 Day	77 (BE Mech)
02	Lecture on “CAD-CAM-CAE software	Mr. Rajan R. Mechery & Mr. Mayur Dhuri	27/08/2012	1 Day	81(BE & TE Mech)
03.	Lecture on, Machine Design online	Kedar Shethia, Executive Sales Engg, Feast Software Pvt. Ltd	07/08/2015	1 Day	55(BE Mech)
04	Lecture on, Talent v/s Attitude	Dr. Kapil Lalit, Psychologist, Counsellor.	24/08/2012	2 Hours	67 (TE Mech)
05	Lecture on Job Opportunities for Mechanical Engineering	Mr. Tejas Chari, Assistant Engineer,	16/08/2012	1 Day	15 (BE Mech)

	Students	Maintenance Dept, Bhushan Steel Ltd, Khopoli			
06	Lecture on Power Plant Engineering	Mr. T.D. Desai, Sr. Manager Utility & Power Plant, GCL, Pvt. Ltd.	20/10/2012	2 Hours	36 (BE Mech)
07	Lecture on Refrigeration & Air Conditioning	Mr. Mahesh Suryarag, Ganesh Ice Factory, Lote.	20/10/2012	2 Hours	63
08	Workshop on CATIA training Program	Mr. Atul Goyal, PLM Support Consultant, TATA technologies.	26-28/12/2012	3 Days	9
09	Lecture on Visited number of technical event & Exhibition	Mr. Animesh Swain, Mr. Sachin Sankhe, IIT Bombay Techfest 2013, Event Coordinator	04/01/2013	1 Day	35
10	Lecture on Career Guidance, How to create Job Profile as an Engineer	Mr. Yogesh Kadu, Maintenance Engineer, GCL, Lote	28/02/2013	2 Hours	43
11	Lecture on What After BE	Mr. Vikrant Kulkarni, Mr. Mayuresh Padvekar, Quality Assurance Executive, Prod. Planning Executive, J.K. Fliles Pvt. Ltd.	11/03/2013	1 Day	30

33. Teaching methods adopted to improve student learning:

Student learning is a centre for the programme. The different teaching methods adopted for improving student learning as listed below:

**Industrial Visit (IV)**

To understand the different production processes and advanced technology industrial visits are arranged. It helps to decide the students' interest in specific area such as production, design, etc. Department arranges many Industrial Visits to enhance knowledge of students and get idea about actual industrial work. It also helps to know how theoretical knowledge implements in the industry.



Academic Year 2016-17

Sr. No.	Industrial / any other visit		
	Name of industry/ place	Date of visit	Class & No. of students present
01	Indo German Tool Room, P-31, M.I.D.C. Industrial Area, Chikalthana, Aurangabad	27/08/2016	TE(31)
02	Mahalaxmi Steel Rolling(Mill) Industry, Gokul Shirgaon MIDC, Kolhapur	25/09/2016	SE(34)
03	Jindal Power Plant, Jaigad	Scheduled on 4/11/2016	BE(24)

Academic Year 2015-16

Sr. No.	Industrial / any other visit		
	Name of industry/ place	Date of visit	Class & No. of students present
01	Mahalaxmi Steel Rolling(Mill) Industry, Gokul Shirgaon MIDC, Kolhapur	26/09/2015	SE(65)
02	Indo German Tool Room, P-31, M.I.D.C. Industrial Area, Chikalthana, Aurangabad	09/10/2015	TE(51)
03	Indsur Gears Ltd., P-31, M.I.D.C. Chikalthana, Aurangabad	10/10/2015	TE(51)

Academic Year 2014-15

Sr. No.	Industrial / any other visit		
	Name of industry/ place	Date of visit	No. of students present & Class
01	Mahalaxmi Steel Rolling(Mill) Industry, Gokul Shirgaon MIDC, Kolhapur	13/03/2015	SE(47)
02	Gharda co-generation, Lote	08/04/2015	TE(70)
03	Bafana Motors pvt., Walope	10/04/2015	BE(68)

Academic Year 2013-14

Sr. No.	Industrial / any other visit		
	Name of industry/ place	Date of visit	No. of students present & Class
01	Gharda Chemicals Limited	26/09/2013	SE(60)
02	Ganesh Ice Factory, Lote	09/10/2013	TE(55)
03	Bafana Motors pvt., Walope	10/10/2013	TE(50)

Industrial Training (IPT)

Most of the students spend their vacation period for industrial training. They approach to various ongoing projects in industry. It helps them to correlate their study with existing advanced technology in the industry.

Academic Year 2016-17

Sr. No.	Name of industry	No. of students	Sr. No.	Name of industry	No. of students
1	Central Railway Carriage Workshop, Matunga	2	4.	Excel Industries Limited,Lote	4
2.	Central Railway Central Workshop, Parel	4	5	Gharda Chemicals limited	3
3.	Menon Pistons limited,Kolhapur	1			

Academic Year 2015-16

Sr. No.	Name of industry	No. of students	Sr. No.	Name of industry	No. of students
01	Excel Industries Ltd.	07	07	Central Railway Workshop	04
02	Kansai Nerolac Ltd.	02	08	Unity Industry	01
03	Hindustan Unilever	03	09	Rashtriya Chemical Fertilizers	02
04	Gharda Chemicals	08	10	Amey Engineering	01
05	J K Talabot	02	11	Privi Organics	01
06	JSW Dolvi & Bajaj Auto	01			

Academic Year 2014-15

Sr. No.	Name of industry	No. of students	Sr. No.	Name of industry	No. of students
01	Excel Industries Ltd.	07	05	Maruti Suzuki, Mumbai	1
02	Kansai Nerolac Ltd.	02	06	IIT, Bombay	2
03	Hindustan Unilever	03	07	Mazagon Dock Ltd.	1
04	Gharda Chemicals	08			

34. Participation in institutional social responsibility (ISR) and extension activities:

Sr. No.	Activity	Academic Year	No. Of students involved
01	NSS	2016-2017	13
02	Blood donation		24
03	Tree Plantation		24
04	Swachata Abhiyan		24
01	NSS	2015-2016	29
02	Blood donation		29
03	Tree Plantation		27
04	Swachata Abhiyan		32
01	NSS	2014-2015	27
02	Blood donation		27
03	Tree Plantation		23
04	Swachata Abhiyan		35
01	NSS	2013-2014	16
02	Blood donation		16
03	Tree Plantation		20
04	Swachata Abhiyan		18

NSS: Students of second and third year Mechanical Department are actively participating in the NSS camps and activities. It is organized in any rural area near to the college. They serve society by organising different social events and awareness programme during their camp as well as throughout year.

Blood Donation: Every year blood donation camp is arranged in college campus. Students take active participation in camp as a social responsibility.



Tree Plantation: Mechanical Department students play role of good citizen by tree plantation and its maintenance. Tree plantation programme is arranged every year at the beginning of odd semester. Go Green concept is spread through such an events and also make the people aware about the future risks.



Street Play: On every occasion of 15th August or 26th January or special day, students show their talent in active thinking and presentation through street Play. The wide awareness has achieved by such street play in college premises as well as surrounding villages.



Swachha-Bharat Abhiyan: This mission is initiated by central government since 2014. The same campaign is followed in institute from 2nd October, 2014. Institute always gives preference to cleanliness and sustainable development.



Maitri-Sangh: Students get actively involved social activities especially for poor students of nearby schools for helping their study and some other support from the college.

Nature Club: Every year students are visiting ancient forts, hill stations etc. Department organises programs to create awareness about interactions of human being with wild life.

35. SWOC analysis of the department and future plans:

Following Example is given for SWOC analysis for reference and guidance:

Strengths:

- Excellent infrastructure and well equipped laboratories.
- A unique mix of experienced and young enthusiastic human resource
- Implementing outcome based teaching-learning process.
- Open, well-defined continuous assessment system for students.

Weaknesses:

- R & D and Consultancy work in past years.
- Intellectual Property rights.
- Doctorate candidates for faculty position

Opportunities:

- Industry-institute interaction.
- Preparing student for GATE/GRE & government/public sector examination.
- Consultancy activity for internal revenue generation.
- Implementation of project based learning.

Challenges:

- Lack of academic autonomy especially in the curriculum and syllabus front.
- Poor intake quality of students.
- Fetching reputed core industries for campus placements.

Future Plans:

- To transfer every student into technologically competent professional.
- To tie-up with concern Industries & Universities in India & Abroad (MOUs).
- To develop department as a well-equipped R & D Centre in Ratnagiri District.
- To develop department capable of producing revenue generation from existing resources.
- To provide adequate placement opportunities to students.

Evaluation Report of the Department**Department of Chemical Engineering****1. Name of the department:** Chemical Engineering**2. Year of establishment:** 2007**3. Names of programmes/courses offered**

Sr. No.	Programme of Study	Description
1.	UG in Chemical Engineering	60 seats since 2007

4. Names of interdisciplinary courses and the departments/units involved:

Sr. No.	Department	Year (FE/SE/TE/BE)	Semester	Course
Academic Year 2016-17				
1	Applied Sciences & Humanities	FE	I	Applied Mathematics-I (FEC101)
2		FE	I	Applied Physics-I (FEC102)
3		FE	I	Applied Chemistry –I (FEC103)
4		FE	I	Engineering Mechanics (FEC104)
5		FE	I	Basic Electrical Engineering (FEC105)
6		FE	II	Applied Mathematics-II (FEC201)
7		FE	II	Applied Physics-II (FEC202)
8		FE	II	Applied Chemistry -II (FEC203)
9		FE	II	Engineering Drawing (FEC204)
10		FE	II	Communication Skills (FEC206)
11		SE	III	Applied Mathematics – III (CSC301)
12		SE	III	Engineering Chemistry – I (CHC302)

13		SE	IV	Applied Mathematics – IV (CHC401)
14		SE	IV	Engineering Chemistry – II (CHC402)
15		TE	V	Business Communication and Ethics (CPL502)
Academic Year 2015-16				
1	Applied Sciences & Humanities	FE	I	Applied Mathematics-I (FEC101)
2		FE	I	Applied Physics-I (FEC102)
3		FE	I	Applied Chemistry –I (FEC103)
4		FE	I	Engineering Mechanics (FEC104)
5		FE	I	Basic Electrical Engineering (FEC105)
6		FE	II	Applied Mathematics-II (FEC201)
7		FE	II	Applied Physics-II (FEC202)
8		FE	II	Applied Chemistry -II (FEC203)
9		FE	II	Engineering Drawing (FEC204)
10		FE	II	Communication Skills (FEC206)
11		SE	III	Applied Mathematics – III (CSC301)
12		SE	III	Engineering Chemistry – I (CHC302)
13		SE	IV	Applied Mathematics – IV (CHC401)
14		SE	IV	Engineering Chemistry – II (CHC402)
15		TE	V	Business Communication and Ethics (CPL502)
Academic Year 2014-15				
1	Applied	FE	I	Applied Mathematics-I

	Sciences & Humanities			(FEC101)
2		FE	I	Applied Physics-I (FEC102)
3		FE	I	Applied Chemistry –I (FEC103)
4		FE	I	Engineering Mechanics (FEC104)
5		FE	I	Basic Electrical Engineering (FEC105)
6		FE	II	Applied Mathematics-II (FEC201)
7		FE	II	Applied Physics-II (FEC202)
8		FE	II	Applied Chemistry -II (FEC203)
9		FE	II	Engineering Drawing (FEC204)
10		FE	II	Communication Skills (FEC206)
11		SE	III	Applied Mathematics – III (CSC301)
12		SE	III	Engineering Chemistry – I (CHC302)
13		SE	III	Computer Programming & Numerical Methods (CHC304)
14		SE	IV	Applied Mathematics – IV (CHC401)
15		SE	IV	Engineering Chemistry – II (CHC402)
16		TE	V	Business Communication and Ethics (CPL502)
Academic Year 2013-14				
1	Applied Sciences & Humanities	FE	I	Applied Mathematics-I (FEC101)
2		FE	I	Applied Physics-I (FEC102)
3		FE	I	Applied Chemistry –I (FEC103)
4		FE	I	Engineering Mechanics (FEC104)
5		FE	I	Basic Electrical

				Engineering (FEC105)
6		FE	II	Applied Mathematics-II (FEC201)
7		FE	II	Applied Physics-II (FEC202)
8		FE	II	Applied Chemistry -II (FEC203)
9		FE	II	Engineering Drawing (FEC204)
10		FE	II	Communication Skills (FEC206)
11		SE	III	Applied Mathematics – III (CSC301)
12		SE	III	Engineering Chemistry – I (CHC302)
13		SE	IV	Applied Mathematics – IV (CHC401)
14		SE	IV	Engineering Chemistry – II (CHC402)
15		TE	V	Business Communication and Ethics (CPL502)

5. Annual/semester/choice based credit system (programme wise):

Sr. No.	Programme of Study	Type of System
1	UG in Chemical Engineering	Semester from 2007 to 2012
2	UG in Chemical Engineering	CBGS from 2012 to 2016
3	UG in Chemical Engineering	CBCGS from 2016 to till date

6. Participation of the department in the courses offered by other departments:

The Department of Chemical Engineering actively participates in offering the courses to other departments by providing an insight on a particular module of a course which requires inputs of interdisciplinary aspects to clear the ambiguity of students.

Sr. No.	Department	Year (SE)	Semester	Course	Description
Academic Year 2016-17					
1	Mechanical Department	SE	III	Thermodynamics (MEC302)	The module 2 which contains 2 nd law of thermodynamics and entropy was offered by our department.
2	Civil Engineering	SE	III	Fluid Mechanics	Entire Subject
Academic Year 2015-16					
1	Mechanical Department	SE	III	Thermodynamics (MEC302)	The module number 2 was offered by our department.

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

A. VTP Certification Course:

The Department of Chemical Engineering has offered courses in collaboration with Maharashtra State Skill Development Scheme (MSSDS) under Pramod Mahajan Kaushal Vikas Yojna (PMKVY). These courses are offered to outside students for their technical development. Existing courses are as follows:

Sr. No.	Name of the course	Scope
1	Instrument Attendant Chemical Plant	To provide detail practical knowledge by delivering lecture and using hands on experience so as to enhance technical skill to apply in industry.
2	Process Attendant Chemical Plant	To provide elaborated knowledge on good manufacturing processes and practices so as to make them familiar to solve the current issues facing in industrial production.

B. Career Development Course:

The Department offers courses in collaboration with industrial resource person Mr. Danish Bade working in AS Global Proposals Support, Pune Honeywell Automation India Ltd. The course is specially designed for Third year and Final year students with innovative concept of Industry Ready Engineers.

Sr. No.	Name of the course	Scope
1	Career Development Path for Chemical Engineers	Students learn to choose correct career option and understand roles and responsibility of each engineer by knowing work flow of chemical industry. It also includes CV preparation for the different industries and to acquire skills required for different career options.

8. Details of courses/programmes discontinued (if any) with reasons:

Following are the courses initially offered by Mumbai University under 2007-2012 syllabus scheme but now discontinued and replaced in 2012 CBGS pattern.

Sr. No	Name of the Course	Year/Semester	Reason
1	Electrical and Electronics Engineering	S.E/III	These courses were discontinued while designing revised syllabus due to change in industrial scenario.
2	Computer Applications	S.E/III	
3	Strength of Materials	SE/IV	
4	Plant Utilities	SE/IV	It is replaced by Plant Engineering which is more industry oriented.
5	Piping Engineering	TE/VI	It was offered as an Elective but discontinued while designing revised syllabus.
6	Transport Phenomena	TE/VI	It was discontinued during revision and part of it is covered in other subjects.
7	Industrial Safety	BE/VIII	The content is covered in Plant Engineering course hence it is discontinued.

9. Number of teaching posts:

Sr. No.	Designation	Sanctioned	Filled (2012-13)	Filled (2013-14)	Filled (2014-15)	Filled (2015-16)	Filled (2016-17)
1	Professor	02	00	00	00	00	00
2	Associate Professors	04	02	01	01	03	03
3	Asst. Professors	07	10	10	12	12	12

Note: Institute follows State Government and University norms. Unfilled posts are presently filled through institute/management appointment orders.

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)**Regular faculty list**

Sr. No.	Name	Qualification	Designation	Specialization	No of years of experience
1	 Dr.S. H. Gharat	Ph. D. (Chemical Engineering)	Associate Professor	Granular Materials, DEM Simulation	13.5
2	 Prof.S. P.Tekade	M.Tech. Ph.D. <i>Pursuing</i> (Chemical Engineering)	Assistant Professor	Micro reactor, Computational Fluid Dynamics, Reaction Engineering	08
3	 Prof.S. M.Teli	M.Tech. Ph.D. <i>Pursuing</i> (Chemical Engineering)	Assistant Professor	Multiphase Reactor	6.5

4	 Prof.S. D.Ayare	M.Tech. Ph.D. <i>Pursuing</i> (Chemical Engineering)	Assistant Professor	Waste water Treatment, Cavitation.	06
5	 Prof.R. G. Nalwala	M. Tech. (Chemical Engineering)	Assistant Professor	Nonlinear Dynamics, Thermodynamics, Modelling & Simulation	04
6	 Dr.P.N. Patil	Ph. D. Tech. (Chemical Engineering)	Associate Professor	Cavitations , Waste water treatment, Process Intensification, Biogas production.	6.5
7	 Prof. S. V.Sonavane	M.Tech. (Chemical Engineering)	Assistant Professor	Chemical Reaction Engineering	1.5
8	 Prof.N. D. Galande	M.Tech. (Chemical Engineering)	Assistant Professor	Heterogeneous Catalysis	2.5

9	 Prof. M. S. Satpute	M. Sc., M. Ed, Ph. D. <i>Pursuing</i> (Chemistry)	Associate Professor (<i>Shared</i>)	Synthesis and Characteriz ation	22
10	 Prof. S. K. Dhawale	M. Sc. (Chemistry)	Assistant Professor (<i>Shared</i>)	Physical Chemistry	11
11	 Prof. S. H. Howal	M. Sc., NET, Ph. D. <i>Pursuing</i> (Chemistry)	Assistant Professor (<i>Shared</i>)	Nano- Crystalline Material, Organic Synthesis Polymer	4

Temporary/Adhoc faculty list: Filled through institute/management appointment orders.

Sr · No.	Name	Qualification	Designati on	Specializat ion	No of years of experi ence
1	 Prof. J. V. Mapara	M. Tech. (Chemical Engineering)	Assistant Professor	Waste water treatment, Adsorption	2.5

2	 Prof. S. K. Vishwakarma	M. Tech. (Chemical Engineering)	Assistant Professor	Modelling & Simulation	1.5
3	 Prof. P. R. Sukhadeve	M. Tech. (Chemical Engineering)	Assistant Professor	Microbial Fuel Cell	02
4	 Prof. S. V. Sutar	M. Tech. (Chemical Engineering)	Assistant Professor	Reaction Kinetics	1.5

11. List of senior visiting faculty:-

As technology upgrades continuously with time hence to keep the pace with trending technology, the Department of Chemical Engineering arranges an interactive sessions between eminent faculties and students. To provide vast exposure to students, the faculties are invited from industries and elite institutes. The department arranges on frequent basis in a year to provide such an exposure.

Academic Year: 2016-17					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	Expert talk on Career Guidance and Career Options in Chemical Engineering	Prof. S. S. Bhagwat (ICT Mumbai), Mr. K. Sahasranaman (Consultant), Mr. Vikram Bhat	14/10/2016	2 hrs	BE/TE (120)

		(Industrialist), Mr. Vijay Sane (R & D Manager, GCL Dombivali) & Mr. Rajesh Jain (Entrepreneur)			

Academic Year: 2015-16					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	Career Path for Chemical Engineers	Mr. Danish Bade Sales Technical (AS Global Proposals Support, Pune Honeywell Automation India Ltd.,)	13/02/2016	2 hrs	BE/TE (120)
2	Roles and Responsibility of Chemical Engineer from Industrial Point of View	Prof. S. Ganeshan (IIT Bombay) Prof. S. S. Bhagwat (ICT Mumbai) Prof. A. B. Pandit (ICT Mumbai) Mr. Vijay Sane (Senior Manager Gharda Chemicals Limited Dombivali)	23/10/2015	4 hrs	BE/TE100

Academic Year: 2014-15					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	Role of Professional body in Carrier Development	Mr. S. D. Sane and Mr. V. Y. Sane (Senior Manager, Gharda Chemicals Limited, Dombivali)	08/08/2014	3 Hrs	BE/TE(114)
2	Process Calculation and Distillation in Chemical Industry	Mr. V. R. Vaidya (Technical Head, Excel Industries Ltd., Lote)	22/10/2015	3 hrs	SE/TE/BE (120)

Academic Year: 2013-14					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	Recent Advances in Chemical Engineering	Mr. Brijesh Khedkar (Manager, Process Development, R&D - Special Projects) at Gharda Chemicals Limited)	9/04/ 2014	2 Hrs	BE (51)
2	Industrial Safety and EHS Management	Mr. Hemant Dange (Safety Manager Gharda Chemicals Ltd., Lote)	26/09/2013	3 Hrs.	TE/BE (79)

Academic Year: 2012-13					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	Lecture on Process Calculation	Mr. S. D. Giri (Research Fellow, IIT Bombay)	23/02/13 to 22/04/13	40 Hrs	SE (38)
2	Lecture on Process Calculation	Prof. S. J. Kulkarni (Datta Meghe College of Engineering, Airoli)	13/10/12	1 Day	SE (38)
3	Lecture on CET, HTO and PE	Dr. S. S. Bhagwat Professor & Formerly Head of ICT, Matunga (Maharashtra Govt.'s Elite Status and Center of Excellence)	12/09/12; 27/10/12 13/10/12	3 Days	BE (40)
4	Lecture on Process Control	Prof. P. M. Ingole (Asst. Professor, Datta Meghe College of Engineering, Airoli)	3/11/12	1 Day	BE (40)
5	Lecture on Process Control	Dr. V. S. Sathe (Asso. Prof Dr.Babasaheb Ambedkar Technological University, Lonere)	19/10/12	1 Day	BE (40)



Figure 1: Mr. Danish Bade delivering the lecture on Career Path.



Figure 2: Mr. Danish Bade emphasizing on Choice of Path.



Figure 3: Mr. Danish Bade states available Scenario of Job



Figure 4: Dr.S. S. Bhagwat discusses on Roles and Responsibility of Chemical Engineer.



Figure 5: Expert talk on Future Scenario of Chemical Engineer.

Lectures Delivered by Visting Faculty

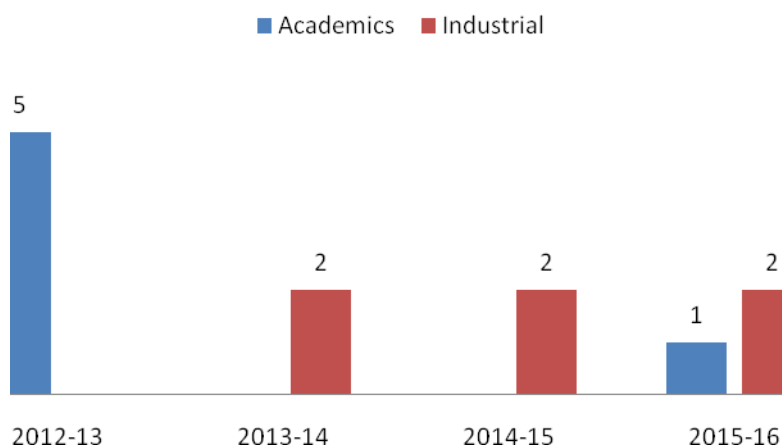


Figure 6: Lectures arranged for last four years.

12. Percentage of lectures delivered and practical classes handled (programme wise) by Temporary faculty:

Academic Year	% of lectures delivered	% of practical classes handled
2016-17	33.69	35.12
2015-16	60.90	53.61

2014-15	51.62	41.17
2013-14	57.14	52.07

13. Student -teacher ratio: (Academic Year: 2016-17)

Student -Teacher ratio = 224:15
= 14.93

14. Number of academic support staff (technical) and administrative staff; Sanctioned and filled:

	Sanctioned	Filled
Academic Support Staff (technical)	04	04
Administrative staff	-	-

Academic support staff		
Sr.No	Name	Qualification
1	Mr.V. B.Sawant	Diploma in Chemical Engineering Diploma in Industrial Safety Pursuing B.E in Chemical Engineering
2	Mr. R. M. Mohite	B.Sc in Chemistry & Diploma in Chemical Engineering
3	Mr.A. S. Desai	Diploma in Chemical Engineering
4	Mr.S.S. Joshi	B.Sc in Chemistry

15. Qualifications of teaching faculty with D.Sc./D.Litt/Ph.D/ MPhil/PG.:

Qualification	No. of staff (2015-16)
Ph. D faculties	02
Ph. D pursuing faculty	05
PG faculty	08
UG faculty	00

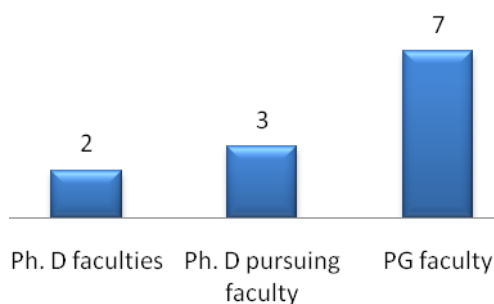


Figure 7: Faculty Qualification 2015-16.

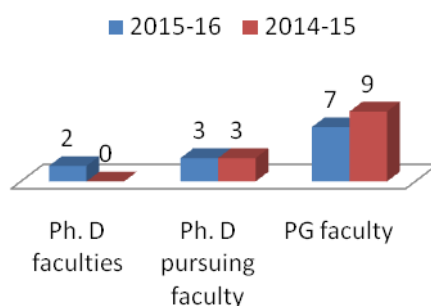


Figure 8 : Progress of Faculty Qualification of Department.

16. Number of faculty with ongoing projects from funding agencies and grants received:

a) National: - Nil

Sr. No.	Funding Agency	Name of Project	Grant Received
-	-	-	-

b) International:-Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

Sr. No.	Funding Agency	Name of Project	Grant Received
1	University of Mumbai	Heat Transfer Enhancement for laminar Flow in double pipe heat exchanger using varying twisted tape Inserts	Rs 40,000/-

18. Research centre /facility recognized by the university: Nil

The institute has established a research centre in collaboration with Gharda Scientific Research Foundation (GSRF). R&D centre is set up in the campus of the institute and was inaugurated on 15/08/2016. The entire functioning of the R&D centre is monitored & headed by Dr.Pankaj Patil (Associate Professor in Chemical Engineering). We are on the path of getting recognition as per National Accreditation Board for Testing and Calibration Laboratories (NABL) as well as Mumbai University.

19. Publications:**a) Publication per faculty:**

Number of papers published in peer reviewed journals (national /international) by faculty and students. *Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc.)

Faculty publication details:

S r . N o	Name of the faculty	2012-13				2013-14				2014-15				2015-16				2016-17				T O T A L
		I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	
1	Dr. S. H. Gharat		1		1	1	1			1	1				4				2			12
2	Prof. S. P. Tekade							0	1	1			0			0	1					3
3	Prof. S. M. Teli							0	0			0	1			0	0					1
4	Prof. S. D. Ayare							0	1			1	0			0	0					2
5	Prof. R. G. Nalwala							2	3			0	0			0	0					5
6	Dr. P. N. Patil	1				1				2				4		1	2	1				12
7	Prof. J. V. Mapara							0	1	1			0			0	1					3
8	Prof. S. V. Sonawane															0	0					0
9	Prof. S. K. Vishwakarma															0	0					0
10	Prof. N. D. Galande									1	1			1		0	1					4
11	Prof. P. R. Sukhdeve															0	0					0
12	Prof. S. V. Sutar															0	0					0
13	Prof. D. J. Garkal							0	0	1		2	0									3
1	Prof. B. S.							0	1			0	0									1

4	Godbole																			
1	Prof. S. G.						0	1			0	0								1
5	Patne																			
1	Prof. R. K.										0	1								1
6	Jadhao																			
1	Prof. Shital	1																		1
7	Katekaye																			

Faculty publication with impact factor:

Sr. No.	Author/s	Name of Journal	Impact factor
1	Dr. P. N. Patil,	"Sonochemical Reactor" in SCI Journal Topics in Current Chemistry, Springer-August 2016	4.01 (Science Citation Index)
2	Dr. P. N. Patil, P. R. Gogate, L. Csoka, A. Dregelyi-Kiss, M. Horvath	Ultrasonics Sonochemistry, 30, 79–86, 2016.	4.556 (Science Citation Index)
3	P. R. Gogate and Dr. P. N. Patil	Topics in current Chemistry, Accepted for publication, 2016.	4.014 (Science Citation Index)
4	P. R. Gogate and Dr. P. N. Patil	Ultrasonics Sonochemistry, 25, 60-69, 2015.	4.556 (Science Citation Index)
5	P. N. Patil and P. R. Gogate	Journal of Water Process Engineering, 8, 58-65, 2015.	0.913 (Science Citation Index)
6	Prof. S.P.Tekade & Prof. S.D.Ayare	International Journal of Research in Engineering and Technology (IJRET) ISSN 2321-7308 vol. 4 issue 4, April 2015	2.375 (International Society for Research Activity (ISRA))
7	Prof. K. Nandiwale and Prof. N. D.Galande	RSC Advances , (ROYAL SOCIETY OF CHEMISTRY), 2015 ;5,17109	5.267 (Science Citation Index)
8	Prof. K. Nandiwale and	Chemical Engineering	2.525

	Prof. N. D. Galande	Research and Design (Science Direct), 2015, vol.93., Pages 584–590	(Science Citation Index)
9	Dr. S. H. Gharat and Prof. D. V. Khakhar	Journal of Procedia Engineering, 102, 676-683, (2015)	1.22 (Science Citation Index)
10	Prof. J. V. Mapara	International Journal of Science, Environment and Technology, Vol.04, No. 1, Feb 2015.	5.52 (Index Copernicus)
11	Dr. P. N. Patil , Prof. S. D. Bote and Prof. P. R. Gogate	Ultrasonics Sonochemistry, 21, 1770-1777, 2014	4.556 (Science Citation Index)
12	Prof. A. L. Patil, Dr. P. N. Patil and Prof. P. R. Gogate,	Ultrasonics Sonochemistry, 21, 1778-1786, 2014.	4.556 (Science Citation Index)
13	Prof. R. G. Nalwala , Prof. P. Rana, Prof. D. Shukla	International Journal of Research in Engineering and Technology (IJERT) ISSN 2278-0181 vol. 3 issue 5, Page 1205-1211, May 2014	1.22 (IJERT Citation Report Manager + Google Scholar Citation report)
14	Prof. R. G. Nalwala , V. V. Hemmady, L. S. Tiwari, S. G. Singhal	International Journal of Engineering Research and Technology (IJERT) ISSN 2278-0181 vol. 3 Issue 5, Page 1352-1355, May 2014	1.22 (IJERT Citation Report Manager + Google Scholar)
15	D.J. Garkal and R. K. Jadhao	International Journal of Current Research in Chemistry and pharmaceutical sciences Vol.1 Issue:6 2014 Pages 71-76	4.88 (Index Copernicus)
16	Prof. K. Nandiwale and	ACS Sustainable Chem.	1.083

	Prof. N. D. Galande	Eng., (American Chemical Society), 2014, 2 (7), pp 1928–1932.	(Science Citation Index)
17	Dr. P. N. Patil and Prof. K. V. Marathe	Separation Science and Technology, 48, 547–553, 2013.	1.085 (Science Citation Index)
18	Dr. S. H. Gharat and Prof. D. V. Khakhar	Powders and Grains 2013, AIP Conf. Proc. 1542, 755–758 (2013); DOI:10.1063/1.4812041.	2.09 (Science Citation Index)
19	Dr. P. N. Patil and P. R. Gogate	Separation & Purification Technology), 95, 172–179, 2012.	3.299 (Science Citation Index)
20	S. N. Katekhaye and P. R. Gogate	Chemical Engineering and Processing: Process Intensification 61 (2012) 23–29	2.54 (Science Citation Index)
21	Prof. M. S. Satpute	International Journal of Chemical & Pharmaceutical Analysis ISSN: 2348-0726	5.949

List of patents awarded to faculties: Nil

List of scientific/ technical books written by faculty members:

Sr. No.	Author/s Name	Title of Books	Details
1	Dr. P.N. Patil	Chapter on “Combined treatment processes based on ultrasound and photocatalysis for treatment of pesticide containing wastewater”	M. Ashok kumar (ed.), Handbook of Ultrasonics and Sonochemistry, Springer Science+Business Media Singapore 2015, DOI:-10.1007/978-981-287-470-2_61-1

20. Areas of consultancy and income generated:

Sr. No.	Areas of Consultancy	Income generated (Till Date)
1	A Study of behaviour of chelating agents for perception and	Ongoing

	inhibition of cations in specified conditions. Excel Industries Ltd., Lote.	

21. Faculty as members in

a) National committees b) International committees c) Editorial boards

Sr. No.	Name of faculty	Committee
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22. Student projects

As per the Mumbai University Curriculum the final year projects assigned to the students should cover the technical grounds of the programme like design, experimental, modelling, manufacturing etc. It helps students to get maximum exposure to apply their skills for practical purpose. Hence our department chooses certain projects in collaboration with industries so that students can avail maximum benefits from it.

Academic Year	Students Done Projects in Research Laboratories/Industry		Students Done Projects in house	
	Number of students	% of students	Number of students	% of students
2016-17	6	9.3	58	90.6
2015-16	12	18.75	52	81.25
2014-15	2	3.9	49	96.07
2013-14	12	15.189	67	84.80

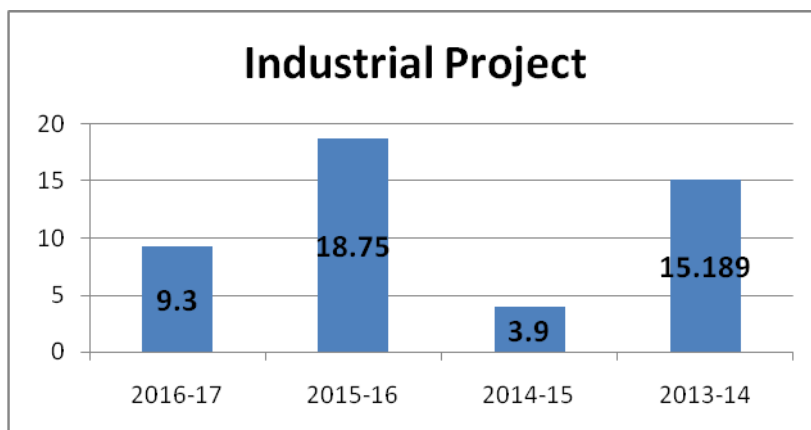
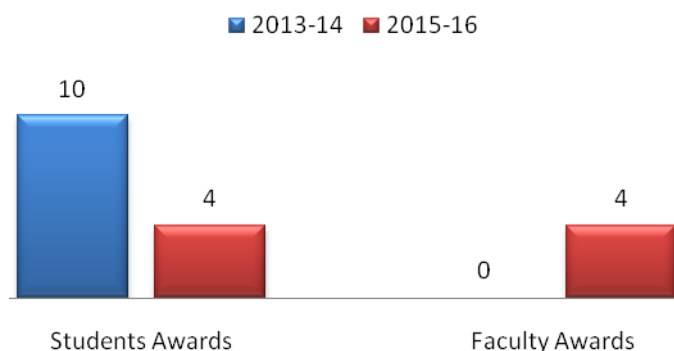


Figure 9:- Percentage of successful industrial projects

Details of Industrial Projects Completed by the Department:

Academic Year	Name of Industry	Title of Project	Name of Students	Name of Guide
2015-16	Gharda Chemicals Ltd, Lote	Optimisation of Kinetic Rate Parameters For Coal Liquefaction Process	Mr. Sidhesh Ambre Mr. Kaustubh Anavkar Ms. Pratiksha Chavhan	Prof. R. G. Nalwala
	Vinati Organics Ltd. Lote	Case Study of Liquid-Liquid Extraction	Mr. Akshay Gurav Mr. Pratik Jadhav Mr. Sahil Gaikwad	Prof. S. M. Teli
	Common Effluent Treatment Plant, Lote	Removal of Colour from Water	Mr. Afnan Chichkar Mr. Irfan Dhanse Mr. Mithul Raut	Prof. J. V. Mapara
2014-15	Ken Chemicals Pvt. Ltd, Lote	Energy Audit of Chemical Plant	Mr. Swapnil Metha Mr. Sanket Bagle	Prof. D. J. Garkal
2013-14	Gharda Chemicals Ltd, Lote	Study of Molten Salt Circulation System	Mr. Rahul Tiwari Mr. Rushabh Shah Mr. Mohammed Siddiqui	Prof. D. J. Garkal
	Excel Industries Ltd, Lote	Recovery of Methyl Sulphonic Acid	Mr. Rakesh Kuley Mr. Ganesh Khopkar Mr. Vishal Karale	Prof. B. S. Godbole
	Gharda Chemicals Ltd, Lote	Mathematical and Experimental Paradigm for Coal Liquefaction Process	Mr. Deepak Shukla Mr. Kumar Pravat Mr. Bhagwan Gharat	Prof. R. G. Nalwala

23. Awards / Recognitions received by faculty and students:**Figure 10:- Number of awards received by faculty and student of the department****Details of awards received by faculty and student of the department:**

Sr. No.	Year	Name of Faculty/Student	Awards/Recognition
1	2015-16	Dr. P. N. Patil	Outstanding Young Chemical Engineer/ M P CHARY award (outstanding young Chemical Engineer below 35 years of age) Awarded by IChE.Venue: IIT Guwahati, 27 th December 2015
2	2015-16	Dr. P. N. Patil	"Best Paper presentation Award" (in working professional category) at Outstanding Young Chemical Engineers event organized by IChE.Venue: DattaMeghe College of Engineering,Airoli
3	2015-16	Prof. N. D. Galande & Prof. J.V.Mapara	2 nd Prize in paper presentation in CHEMIX'16 held VNIT Nagpur 02-03 rd April-2016.
4	2015-16	Mr. Amitkumar Singh	1 st Prize in Oral presentation Digital India Week, held in GIT Lavel 2015
5	2015-16	Mr. Nitin Kumar Pandey Mr. Yuvraj Adale	3 rd Prize in Oral Paper Presentation in SCHEMCON 2015 held in MIT Alandi Pune.
6	2013-14	Mr.Samit Singhal, Mr.Varun	2 nd Prize in Technical Paper presentation (Session-I) CHEMERGENCE-2013 Thadomal Shahani Engineering College,

		Hemardy Mr. Love Tiwari	Bandra
7	2013-14	Mr. Samit Singhal,	2 nd Technical Group Discussion CHEMERGENCE-2013 Thadomal Shahani Engineering College, Bandra
8	2013-14	Mr. Aakif Gaibee Mr. Bhagwan Gharat Miss. Namita Gudekar	2 nd Prize in Technical Paper presentation (Session-II) CHEMERGENCE-2013 Thadomal Shahani Engineering College,Bandra
9	2013-14	Mr. Pravat Rana Mr. Deepak Shukla	3 rd Prize in Technical Paper presentation (Session-I) CHEMERGENCE-2013 Thadomal Shahani Engineering College,Bandra

24. List of eminent academicians and scientists/visitors to the department:

Sr. No.	Name of the Person	Designation	Place of Work	Purpose of Visit
1	Dr. S. S. Bhagwat	Head of Department, ICT Mumbai	ICT Maharashtra Govt's Elite Status And Center Of Excellence	Expert talk on Career Guidance and Career Options in Chemical Engineering
2	Mr. K. Sahasranaman	Consultant	GhardaChemicals Ltd, Lote	
3	Mr. Vikram Bhat	Industrialist	Vishwakarma Global Business School (VGBS) Pune	
4.	Mr. Vijay Sane	R & D Manager	GCL Dombivali	
5.	Mr. Rajesh Jain	Entrepreneur		
6.	Dr. S. C. Mallick	Sr. Manager,	Special Projects GCL Lote	How to improve interaction with Industry through students Projects,

				Faculty Projects
7	Dr. S. S. Bhagwat	Head of Department, ICT Mumbai	ICT Maharashtra Govt's Elite Status And Center Of Excellence	Expert talk on Career Guidance and Career Options in Chemical Engineering
8	Mr. K. Sahasranaman	Consultant	GhardaChemicals Ltd, Lote	
9	Mr. Vikram Bhat	Industrialist	Vishwakarma Global Business School (VGBS) Pune	
10	Mr. Vijay Sane	R & D Manager	GCL Dombivali	
11	Mr. Rajesh Jain	Entrepreneur		
12	Dr. S. C. Mallick	Sr. Manager,	Special Projects GCL Lote	How to improve interaction with Industry through students Projects, Faculty Projects
13	Dr. S. S. Bhagwat	Head of Department, ICT Mumbai	ICT Maharashtra Govt's Elite Status and Center of Excellence	Discussed on courses like Thermodynamics and also on future roles & responsibility of chemical engineer in the society with the students.
14	Dr. Vishal Sanyal	Senior Research Head	GhardaChemicals Ltd, Lote	Interaction with Department
15	Dr. Yuvraj Lahoti	Director	Vishwakarma Global Business School (VGBS) Pune	Lecture on Management – A Life Learning

25. Seminars/ conferences/workshops organized & the source of funding
a) National b) International:

Sr. No.	Seminars/ Conferences/Workshops Organized	Source of Funding
1	Symposium on Recent Advances in Polymer Technology organized by GSRF & hosted by Chemical Engineering Department, 20th August 2016	GSRF
2	ISTE- National Maharashtra Goa Convention-2014	ISTE, Self funded

Sr. No.	Conferences/Workshops Organized	Source of Funding
Academic Year 2016-17		
1	Department conducted 5 days "Short Term Training Program (STTP) on Ansys Fluent (CFD) Software" between 9-13th November 2016.	GCL & Self Financed
2	Two days Workshop on Hysis for TE/BE Students, 7-8th October 2016.	Self Financed
Academic Year 2014-15		
1	Fluid Mechanics	IIT Kharagpur & MHRD

26. Student profile programme/course wise:-

Academic Year	Applications received	Selected	Enrolled		Pass Percentage
			*M	#F	
2016-17	F. E=43	46	42	4	
	S. E=43	48	44	4	
	T. E=64	67	58	09	
	B. E=64	63	51	12	
2015-16	F. E=32	26	23	3	100%
	S. E=61	61	53	8	98.36
	T. E=64	64	52	12	93.75
	B. E=64	65	58	7	90.76
2014-15	F. E=35	29	25	4	72.41
	S. E=67	67	58	9	79.10
	T. E=69	69	62	07	91.30
	B. E=51	51	41	10	96.08
2013-14	F. E=54	45	39	6	64.44
	S. E=83	83	72	11	73.49
	T. E=46	46	39	07	93.47
	B. E=77	79	65	14	83.5

* M = Male #F = Female

27. Diversity of students:

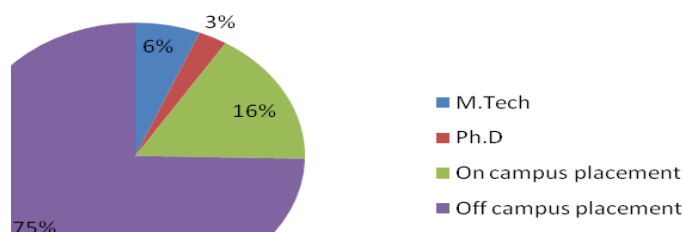
Department: Chemical Engineering			
Academic Year	% of students from the same state	% of students from other states	% of students from abroad
2016-17	97.81	2.18	-
2015-16	98.44	1.56	-
2014-15	94.12	5.88	-
2013-14	98.72	1.28	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?

Year	Name of competitive examinations	No. of Students
2015-16	-	-
2014-15	-	-

29. Student progression:

Students Progression	% Against enrolled				
	Academic Year				
	2016-17	2015-16	2014-15	2013-14	2012-13
UG to PG		5.41	10	0	8.11
PG to Ph.D		0	0	0	5.41
Employed on Campus	8.33	32.43	13.33	6.67	8.11
Off campus		5.41	0	3.33	2.70
Entrepreneurship/Selfemployment		-	-	-	-

**Figure 11:- Career path opted by our students**

30. Details of infrastructural facilities:**a) Departmental library:**

1. Area of the library (in Sq. Mts.): 54.38Sq meter
2. Seating capacity: 20 Students
3. Library holdings:

Library Holdings	No. of Titles	No. of Volumes
Books	69	69
Journals/periodicals	07(Central Library)	NA
Newspapers	13 (Central Library)	NA
E-resources	32	NA
Project reports	179	NA
Seminar reports	345	NA
Any other(specify)	-	NA

b) Internet facilities for staff & students:

For students, it can help their studies enormously. The Internet makes research quick, simple and easy. Students use computers due to the interactivity it provides. Web pages are much more up-to-date than old text books that were previously used for studying, so not only is the information accurate but it is also designed to engage students in a way that they find entertaining. Trends change so quickly that the style of a text book becomes outdated within a few years but the internet has the capabilities to update pages continually so they are always appealing for the intended audience. The Internet also allows students to research and learn about topics that would previously be unknown to them due to lack of resources. It is not possible to stock every single book on a particular subject but with the internet the learning possibilities are limitless. Hence understanding the needs of modern world, the institute provides the high speed internet facilities to the students and staff through LAN and Wi-Fi. The Entire campus has been provided with the Wi-Fi facility so as to the students and staff can access at any instant with ease to avoid any inappropriate activities. The connections are guarded by the firewall details are as follows.

- 1) ISP – BSNL and Deep Network
- 2) Leased line 34 Mbps
- 3) Compression ratio1:1
- 4) Wi-Fi facility: Yes
- 5) Firewall: Cyberoam

d) Class rooms with ICT facility:

S · N ·	Room Description	Usage	Size in (Sq. Mtr)	Cap acity	Rooms Equipped with
1	BE Classroom- B104	Theory Lectures/ Tutorials/Seminar	65	60	Movable LCD, Internet, Green Board, CCTV
2	TE Classroom- B103	Theory Lectures/ Tutorials/Seminar	97	80	LCD Screen, Audio-Video Facility Internet, Green Board, CCTV, Smart board
3	SE Classroom- B102	Theory Lectures/ Tutorials/Seminar	65	60	Movable LCD, Internet, Green Board, CCTV
4	Seminar Hall	Guest Lecture/Seminar/Aptit ude Test	125	120	LCD, Smart Board Audio-Video Facility, Internet, Green Board, CCTV

d) Laboratories:

To bridge the gap between the theoretical concepts taught in classroom and actual execution, the role of laboratories are very important hence the department also concentrated on laboratory work of students.

La b No	Curriculum Lab Description	Use Exclusive/ Shared	Space (Sq.m)	Lab-Incharge	InvestmentRs .
1	Mass Transfer Operation	Exclusive	100.25	Prof. S. M. Teli	8,07,590/-
2	Chemical Reaction Engineering	Exclusive	102.30	Prof. S. P. Tekade	7,11,430/-
3	Environmenta l Engineering	Exclusive	26.1	Prof. J. V. Mapara	4,98,857.08/-
4	Process Dynamics and Control	Exclusive	82.76	Prof. R.G. Nalwala	4,71,868/-

5	Computer Application Lab	Exclusive	54.38	Dr. P. N. Patil	4,97,400/-
6	Heat Transfer Operations	Exclusive	54.38	Prof. S. D. Ayare	3,24,470/-
7	Solid Fluid Mechanical Operations	Exclusive	120	Prof. S. D. Ayare	4,33,275/-
8	Fluid Flow	Shared with Mechanical Department	122.62	Prof. P. N. Patil	1,93,863/-
9	Analytical Lab	Exclusive	10.73	Prof. N. D. Galande	90,200/-
10	CFD LAB	Exclusive	30	Prof.S.P.Tekade	35,00,000/-
11	Project Lab	Exclusive	54	Principal Investigator	11,53,426/-

1. Mass Transfer Operation

The course Mass Transfer Operations for the Third year students plays a vital role in shaping a chemical engineer. It gives out a distinguish characteristics to a budding chemical engineer because mostly the entire plant operations are driven by mass transfer operations. Hence department of chemical engineering has invested lots of efforts to provide the students with well equipped laboratories incorporating latest technological changes.



Figure 12:- Bubble Cap Distillation Column

The equipment is small scale replica of the gigantic distillation column used in the petroleum refineries. It is basically used for separation of two or more compounds. The unique feature of this it is provided with a computer interface which enables us to control and monitor the separation progress automatically as well as manually. The main added advantage is it directly gives number of stages required for desired separation. It also helps student to monitor the composition and temperature on each stage easily. Hence it stands out as a acme of our mass transfer laboratory because it updates students with latest technological trend.



Figure 13:- Multistage Extraction Column

The above mentioned equipment is mainly used in separation of two nearly boiling liquids compounds where separation by distillation column is not possible. This equipment is vastly used in petroleum refineries. It deals with estimation of separation efficiency in single stage and multi stage which elaborates to our students how to design a packed column for extraction. It is also used for final year projects to study the effects of various packings on separation efficiency.



Figure 14:- A batch dryer for small scale purpose.

This equipment is mainly used in separation of moisture from the pharmaceuticals products. It has vast application in the food industry. It enables our students to estimate the drying rate and drying time for a particular mixture also it makes students aware regarding the peculiar drying phenomena. It also makes students capable enough to design a batch dryer for various industrial applications. It is also used for final year projects for drying various products.

2. Chemical Reaction Engineering

Chemical Reaction Engineering course is offered to Third year students. This course is said to be the heart of a chemical engineering programme. It distinguishes a chemical engineer from a chemist. It leads to design of reactors to synthesize chemical products on large scale. Hence it is necessary to study the various contact patterns and reactor flow schemes in details.

The department had laboratory dedicated to the extensive study on types of reactors, various reactor arrangement patterns & flow pattern strategies.



Figure 15:- Chemical Reaction Engineering Lab



Figure 16:- CascadeContinuous Stirred Tank Reactor.

To increase the rate of reaction the reactants have to be contacted in various patterns. Hence to suggest the proper mixing pattern for particular reactants it finds wide application in various chemical industries. It enables our students to estimate the contacting patterns, arrangement of series of reactors, comparing the conversion obtained in combination with the single reactor in use. It is also used for final year projects for synthesizing products.



Figure 17:- ResidenceTime Distribution of Packed Bed Reactor

This equipment enables the student to understand in depth difference between the ideal and non-ideal flow existing in the reactor. It provides students with better understanding of contact patterns which are possible in large scale packed bed reactor. Also it tells how to estimate the conversion for any non ideal packed bed reactor by incorporating the residence time effect distribution.

2. Environmental Engineering

University has included this subject for final year students. We perform experiments such as Dissolved Oxygen, Chemical Oxygen Demand, Biological Oxygen Demand, Turbidity, metal content, Total Dissolved Solids etc. This is useful to study how the oxygen concentration varies in the water. The minimum oxygen concentration in water is 5 PPM but when it falls then we call as that water is polluted because the animals may not survive into that environment. Students learn how to determine the oxygen concentration of water system. In our college we also have our bio-filter plant. The inlet and outlet water sample of this plant is analyzed for its quality of treatment like COD, DO, BOD, Turbidity, TDS etc. We have ultrasonic cleaner that can be used to degrade the waste material.



Figure 18:- Ultrasonicsonicator

The characteristic of ultrasonic cleaning is that the mechanical energy in the form of high frequency, high intensity, sound waves are irradiated in the cleaning liquid. This results in the build up and collapse of large number of vacuum bubbles throughout the liquid. This phenomenon is known as cavitation. It is responsible for special scrubbing action which ensures quick and through cleaning of all the immersed surfaces (areas) that would otherwise be impossible to clean. This setup provides the upper hand to our department as it is available only with us in the nearby regional areas and institutes. Research work regarding waste water treatment is carried on this setup.

4. Process Dynamics & Control.

Process Dynamics & Control is the course which provides the students the basic understanding of the modern technology such as Distributed Control System (DCS), programmable logic controller (PLC). The control strategy used in the chemical plant to control the various operations & process of chemical engineering. Course deals with studying various chemical process and operations in detailed and then understanding the dynamics. Thus students have a proper understanding regarding how to determine the stability and steady state conditions of a process. This course mainly provides students how to control a system using the computer and to understand the interface between the process and the computer. Hence the department has provided with good infrastructural facility equipped with latest equipments with most of the experiments designed in such a way that students can learn to control the various process using computers.



Figure 19:- Instrumentation and process control lab



Figure 20:- Level Controller Trainer

This setup mainly provides a user interface to control the operation of filling of tank. Great exposure is provided to the student, on how a control system works in a large scale industry. It also enables the student to study various control modes and to suggest the best control strategy for the given process. It is mainly used to give a basic idea of PLC, DCS system to students, which is largely used in industries.



Figure 21:- Pressure control trainer

Pressure is one of the most important variables that have to be monitored during progress of any particular operation or process. This setup mainly provides a user interface on how to control a pressure for a given operation or process. It gives a good exposure on controlling a system when pressure is the variable on various control modes like proportional, proportional integral, proportional integral derivative along with various control strategy like open loop, manual and auto tuning. It also enables the student to suggest the best control strategy for the given process. It is mainly used to give a basic idea of PLC, DCS system to students, which is largely used in industries.

31. Number of students receiving financial assistance from college, university, government or other agencies:

In order to avoid economical barriers of students, the institute provides the following aids in form of merit scholarship to motivate and to improve their aptitude. The aid is from state government and also at institute level in form of merit scholarship the following are the number of students of the programme who have received the aid. In order to strive for betterment of students our institute is making continuous efforts to foster their aptitude for learning by providing economical support to deserving students and our support is increasing with coming period, which can be noticed from the figure mentioned below. The figure states the efforts made by us, it also emphasizes our growth rate for last three years.

Academic Year	Type of financial assistance	Financial assistance from (Agency/college)	No. Of students benefited
2016-17	EBC	State Government	38
	Merit Scholarship	Gharda Institute of Technology	8
	TFWS	Gharda Institute of Technology	12
	Hostel Fee Discount	Gharda Institute of Technology	28
	One time Scholership	Gharda Institute of Technology	03
	Dr.P.S. Ramnathna Scholership Endowment		01
	Minority Scholarship	State Government	22
2015-16	Scholarship & Free-ship	State Government	84
	EBC	State Government	35
	Merit Scholarship	Gharda Institute of Technology	04
	Sansthan Shridevi Bhargavram scholarship	Sansthan Shridevi Bhargavram	01
	TFWS	Gharda Institute of Technology	10
	Minority Scholarship	State Government	19
2014-15	Scholarship & Free-ship	State Government	72
	EBC	State Government	33
	Merit Scholarship	Gharda Institute of Technology	04
	TFWS	Gharda Institute of Technology	06
	Minority Scholarship	State Government	17
2013-14	Scholarship & Free-ship	State Government	98
	EBC	State Government	30
	GIT Merit Scholarship	Gharda Institute of Technology	04

	Sansthan Shridevi Bhargavram scholarship	Sansthan Shridevi Bhargavram	02
	TFWS	Gharda Institute of Technology	04
	Minority Scholarship	State Government	16

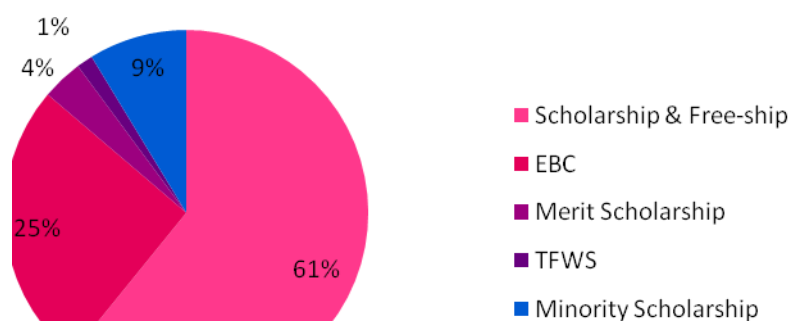


Figure 22:- Financial Aid for Academic Year 2015-16

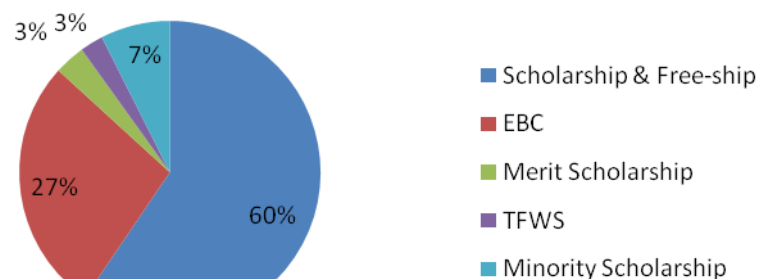


Figure 23:- Financial Aid for Academic Year 2015-16

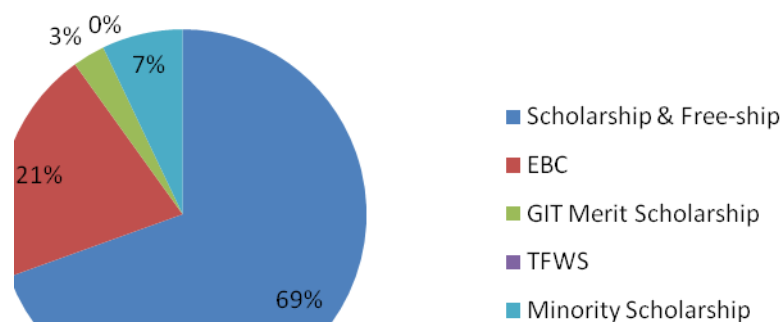


Figure 24:- Financial Aid for Academic Year 2015-16

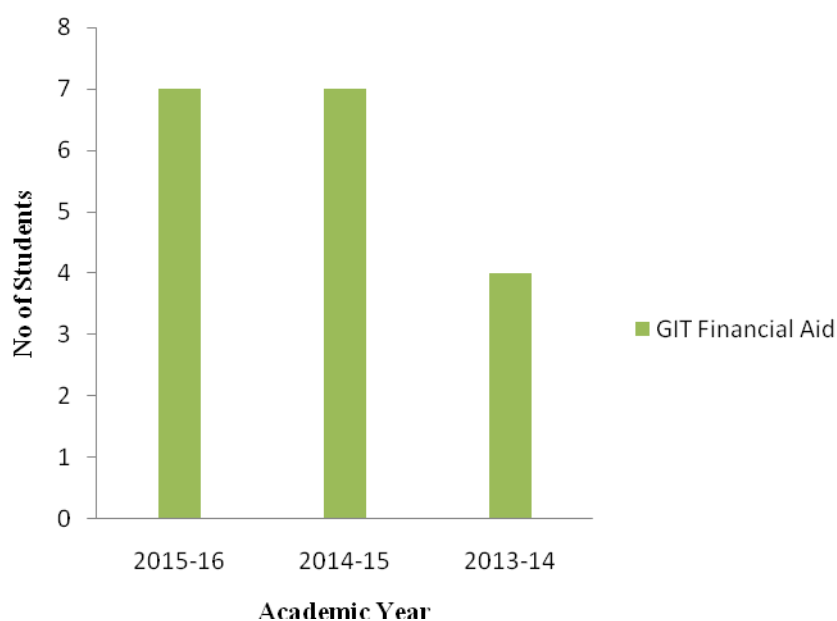


Figure 25:- Progress in Financial Aid Provided to Students

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Academic Year: 2016-17					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	Expert talk on Career Guidance and Career Options in Chemical Engineering	Prof. S. S. Bhagwat (ICT Mumbai), Mr. K. Sahasranaman (Consultant), Mr. Vikram Bhat (Industrialist), Mr. Vijay Sane (R & D Manager, GCL Dombivali) & Mr. Rajesh Jain (Entrepreneur)	14/10/2016	2 hrs	TE/BE (120)
Academic Year: 2015-16					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	Career Path for Chemical Engineers	Mr. Danish Bade Sales Technical (AS Global Proposals Support, Pune Honeywell Automation India Ltd)	13/02/2016	2 hrs	TE/BE (120)
2	Roles and Responsibility of Chemical Engineer from Industrial Point	Prof. S. Ganeshan(IIT Bombay) Prof. S. S. Bhagwat (ICT Mumbai,	23/10/2015	4 hrs	TE/BE (100)

	of View	Maharashtra Govt.'s Elite Status and Center of Excellence) Prof. A. B. Pandit (ICT Mumbai, Maharashtra Govt.'s Elite Status and Center of Excellence) Mr. Vijay Sane (GCL Dombivli)			
Academic Year: 2014-15					
Sr. No .	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	CHEMCAD	Ingenious (A Wood Group Mustang Company)	27/09/2014	10 hrs	BE (60)
2	Role of Professional body in Career Development	Mr. S. D. Sane and Mr. V. Y. Sane Senior Manager Gharda Chemicals Limited Dombivli	8/08/2014	3 Hrs	TE/BE (114)
3	Process Calculation and Distillation in Chemical Industry	Mr. V. R. Vaidya Technical Head Excel Industries Limited Lote	22/01/2015	3 hrs	TE/BE (120)

Academic Year: 2013-14					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	Recent Advances in Chemical Engineering	Mr. BrijeshKhedkar (Manager - Process Development, R&D - Special Projects at GCL)	9/04/2014	2 Hrs	BE (51)
2	Industrial Safety and EHS management	Mr. Hemant Dange (Safety Manager Gharda Chemicals Ltd.,Lote)	26/09/2013	3 Hrs.	BE (79)

Academic Year: 2012-13					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	Lecture on Process Calculation	Mr. S. D. Giri (Research Fellow IIT Bombay)	23/02/13 to 22/04/13	8 Day 40 Hrs	SE (38)
2	Lecture on Process Calculation	Prof. S. J. Kulkarni (DattaMeghe College of Engineering Airoli)	13/10/12	1 Day	SE (38)
3	Lecture on CET, HTO and PE	Dr. S. S. Bhagwat Professor & Formerly Head of ICT Matunga (Maharashtra Govt.'s Elite Status and Center of Excellence)	12/09/12; 27/10/12; 13/10/12	3 Days	TE (40)
4	Lecture on Process	Mr. P. M. Ingole (Asst Professor,	3/11/12	1 Day	BE (40)

	Control	DattaMeghe College of Engineering Airoli)			
5	Lecture on Process Control	Dr. V. S. Sathe (Associate Prof. Dr.BATU, Lonere)	19/10/12	1 Day	BE (40)



Figure 26:- Workshop on CHEMCAD Conducted by Ingenious Solutions



Figure 27:- Mr.Shantanu Tirlothkar demonstrating CHEMCAD



Figure 28:- Mr.Shantanu Tirlothkar explaining CHEMCAD to students

33. Teaching methods adopted to improve student learning:

1. Before the commencement of semester, the faculties if required are being recruited. Requirement of instruments/software/equipment for laboratory is fulfilled.
2. We provide an academic calendar before the commencement of semester to all departmental staff and students.
3. Load distribution for the next semester is done at the end of current semester. HoD assigns the responsibilities to the faculties for the activities to be conducted throughout the semester.
4. The teaching plan is prepared by every subject teacher prior to the starting of the semester which includes lecture number, topics planned, date, topics covered, date etc. This is approved and monitored periodically by the HoDs.
5. The subject teachers are asked to prepare/update course file which contains academic Calendar, syllabus, teaching plan, subject notes, PPT's, question bank on each unit, University question papers with model solution etc.
6. Weekly meeting of faculties is conducted by HoD to discuss the problems if any and to take updates of the conduction of academics.
7. During semester various co curricular, extracurricular activities are conducted along with regular curriculum. Following various activities are conducted,
 - Lecture (LT). Class rooms of department are equipped with LCD, smart board.
 - Laboratory Session (LS). Department has necessary advanced software to cope up with new technologies.
 - Demo (DM) & Case Studies (CS).
 - Seminars (SM) and Group Discussion (GD) conducted to provide platform to student to show their talent and increase confidence level of the students.

- Industrial visits are organized to provide much needed industrial exposure
 - Students are encouraged to attend various technical Seminars/workshops in order to get acquainted with emerging fields in Computer engineering.
 - Department has signed MOU with various industries and organizations to give exposure to student for updating developments in the technologies.
 - Students are encouraged to join Industry internship in vacation. Institute invites eminent persons from industries to deliver lectures on the latest technology.
 - NPTEL lectures are made available.
 - The entire campus is Wi-Fi enabled.
 - The Whatsapp group for every division is formed and faculty uploads assignments, notices of extra lectures etc.
8. The continuous evaluation of students is done by university examinations as well as internal examinations and continuous assessments carried out at institute level. Institute conducts 1st Sessional test based on 40% syllabus and 2nd Sessional test based on remaining syllabus per semester. Test performance of all the students is conveyed to their parents by class teacher through telephonic calls/ SMS. University theory and practical examination is conducted at the End Semester.
9. As a part of continuous evaluation process the term work marks given to every student is based on overall attendance, punctuality, understanding and knowledge. A sheet containing progressive practical internal assessment record is maintained by the faculties for proper evaluation of term work.

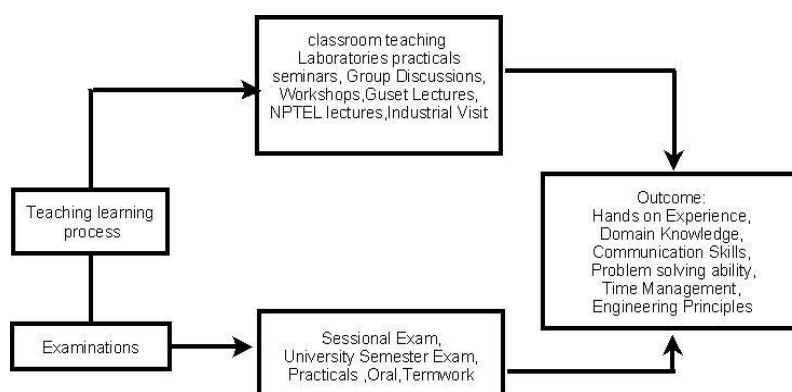


Figure 29:- Teaching Learning Process

34. Participation in institutional social responsibility (ISR) and extension activities: (Please include the name of students)

To cultivate the feeling of social awareness, to make the students responsible towards society, to learn the other aspects like brand recognition, connections, generate revenue and leadership, which cannot be taught in the bounded classroom walls, the department understands the necessities of the above mentioned skills and arranges various programmes for development of students.

The department motivates students to participate and organizes the various social events which prove beneficial for student and institute. The Institute organizes various events like NSS, Blood Donation, Tree Plantation, Swachhaabhiyaan, Art of living, Shiv Jayanti, Dahihandi for the following reasons.

1. Build brand recognition.
Events are excellent way to increase the hype around organization. Hosting events promotes institute, department and helps people to connect with our brand. Hence institute organizes Shiv Jayanti and DahiHandi to build the brand.
2. Showcase your venue.
We have a space that is good for hosting events. Department organizes the programme like Navratri Utsav and Swatcha Abhiyan. Our moto of planning and organization of the events is to showcase the beauty, utility, of our venue, which brings people into the space and gets their minds working.
3. Make face-to-face connections.
We already mentioned the importance of brand recognition, but really connecting with our regional people or members on a personal level has a big impact on our engagement. These important face-to-face connections are rare in the virtual world, and can really solidify someone's interest in our institute hence institute organizes NSS in which the department students actively participate.
4. Strengthen your community.
In addition to developing a connection with our organization, people attending our events can build relationships with each other and strengthen the community. There's power in attending an event and seeing other people who support the same cause, follow the same blog, or support a local team. Meeting like-minded individuals in person will

also encourage more active engagement online hence we encourage participating in tree plantation and NSS.

5. Build trust.

This is an often overlooked benefit, but organizing event which is for welfare of society leads to build of trust between the society and institute, especially for newly-formed institute to show how well the institute is in understanding its roles towards society. Hence simulates students to organize and participate in events like blood donation and NSS.

6. Generate revenue.

We can generate revenue by charging the fees for admission to our programmes.

7. Establish thought leadership.

To conduct a seminar or to host a meet up or meeting with industry thought leaders, establishes the relation and bonding between the institute and industry, which helps our students.

The numbers of student participated in the above mentioned events are as follows:

Sr. No.	Activity	Academic Year				
		2016-17	2015-16	2014-15	2013-14	2012-13
		No. of students involved				
1	NSS	14	9	13	12	02
2	Blood donation	8	20	24	35	16
3	Tree Plantation	8	9	13	12	02
4	SwachataAbhiyan	6	45	13	12	NA
5	Art of Living		64	5	2	1
6	Shiv Jayanti	12	70	50	60	35
7	Dahihandi	6	70	60	35	40
8	Navaratri	12	105	100	95	80

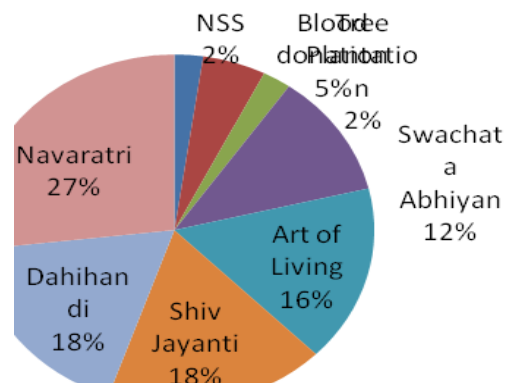


Figure 30:- Social Activities Participation for Academic Year 2015-16

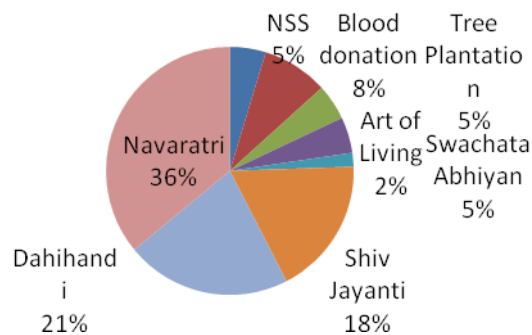


Figure 31:- Social Activities Participation for Academic Year 2014-15

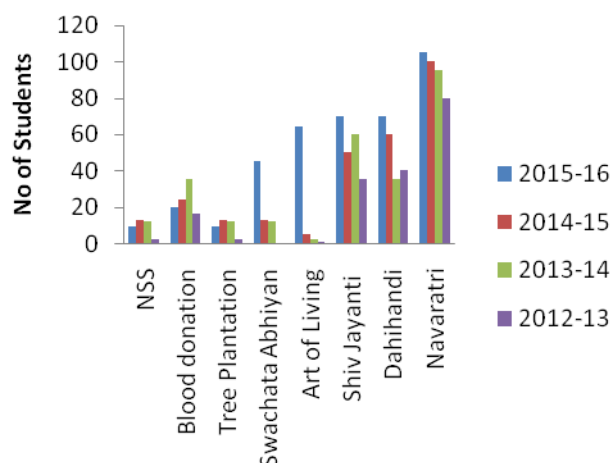


Figure 32:- Social Activities Participation Progression of last four years

The Institute understands the need of society from the technocrats of the college hence the college arranges every year a camp into the rural area for duration of one week in order to evoke the following attitudes in the students. To make student socially responsible by understanding their role in the community and identifying the needs and problems of the community, Institute arranges NSS camp. It provides the ability to involve their knowledge in finding practical solutions to individual and community problems. Students like Mr. Suraj Dewala from our department; in academic year 2014-15 has executed the roles and responsibilities efficiently for that particular year. Similarly Mr. Swapnil Ketkar in academic year 2013-14 and Miss. Isha Sharma in academic year 2015-16 of our department have been prominent in playing their assigned roles and responsibilities in NSS.

Shiv Jayanti

Gharda Institute of Technology celebrates Shiv Jayanti. Shiv Jayanti in Gharda Institute of Technology has more adrenaline touch as the students from our Institute bring the torch flame from the selected fort of Chattrapati Shivaji Maharaj every year by marching from respective fort to GIT Level. Students are the main ingredient who organizes the event. It also represents the historical culture of the region; it is now the youth activity which represents the historical strong background of the region. Students want to preserve their culture through such kind of activities. This event is enjoyable has the people wear historical costumes and replicate historical environment. In the academic year 2012-13 the students from our department; Mr. Sarjerao Doltade, Mr. Pravin Ghorde, Mr. Subhash Chougale and Mr. Manoj More had meticulously worked to organize a successful event. In the academic year 2013-14 student from our department Mr. Amit Ambarle, Mr. Rahul Tiwari, Mr. Bhagwan Gharat, Mr. Ranjit Mane, Mr. Anand Gokhale and Mr. Jotiba Pawar had worked diligently for the event. Following every academic year we have active participants from our department for academic year 2014-15 Mr. Kiran Sawant was one of the torch bearers to bring the flame from Raigad, also Mr. Pratik Yadav, Mr. Praviraj Jadhav have cooperated to have a smooth functioning of the event. In academic year 2015-16 Mr. Amitkumar Singh, Mr. Swapnil Ketkar and Miss. Pratiksha Chavan were active participants. Miss Chavan has also performed the Lezim dance in the event.



Figure 33:- Faculty and Student Lifting ThePalkhiOf Maharaj.



Figure 34:- Students Enthusiastically Performing Lezim Dance.



Figure 35:- Students Actively Participating in Fort Building Competition in Shiv Jayanti Event.



Figure 36:- Students Actively Participating in Shiv Jayanti Event.



Figure 37:-Girls Participating in Sword Fighting Competition in Shiv Jayanti Event.

Blood Donation:-

Every year, our nation requires about 5 crore units of blood out of which only 2.5 crore units of blood is available. As there is no substitute for human blood it is very important to donate the blood. With this view in mind, GIT organizes the blood donation camp every year in association with nearby blood banks. Students from chemical engineering department actively participate in this activity. In Academic year of 2015-16 Mr. Abhijit Chavan a chemical engineering student was an active participant for blood donation campaign. In the academic year of 2013-14 the student organization of chemical engineering department (S.P.A.C.E) has organized blood donation campaign

which was volunteered by Mr. Amit Ambarle, Mr. Ranjit Mane and Mr. Akshay Pawar. 98 blood bags were donated.



Figure 38: Principal Dr. M. V. Karkare Inaugurating Blood Donation Event.



Figure 39: Student and Faculty Actively Donating Blood.

Tree Plantation

With evasive development in technology, the ecological balance of the nature has been disturbed a lot primarily by cutting down the trees which led to droughts and famines. To maintain the ecological balance and to cope with the rapid growth of technology, the institute motivates students and faculty every year on a large scale to participate in tree plantation in the campus and nearby areas. These activities make student understand their responsibility towards nature without harming it.



Figure 40: Faculty and Student Actively Participating in Tree Plantation.



Figure 41: Student Actively Participating in Tree Plantation

Swatchhata Abhiyan

By keeping the dream of Mahatma Gandhi regarding clean India, GIT'ians has started the Swatchhata Abhiyan in its campus. All the faculties with students participate in this activity on large scale. The activity consists of swiping the entire campus and separating the non biodegradable components from it. Non biodegradable components are decomposed by incinerating whereas biodegradable components are placed in deep hole in ground. On 2nd of October 2015 our Prime Minister Shri Narendra Modi has also launched the Swachh Bharat Mission at Rajpath in New Delhi. With this event of Swatchht Abhiyan a sense of responsibility has been evoked among the peoples of GIT. GIT'ians now becoming active participants in cleanliness activities across the campus and outside the campus, the dream of a 'Clean India' once seen by Mahatma Gandhi has begun to get a shape.

Navaratri

Navratri has a spiritual theme for its devotees. The festival of nine nights endorses the triumph of righteousness over malefic and inspires the humankind to be relieved from dormant of ignorance and negativisms by

inculcating positive virtues and by sanctifying the inner mind. To attain the most eminent goal of human living by overcoming all temporal bindings – salvation can be accomplished with the spiritual knowledge alone. In Gharda Institute of Technology organizes gharba night on the last three nights of navaratri. In which students of our department dress in traditional dress and participate in gharba along with gharba the students organize rangoli, drawing competition and dandiya decoration competition.

Our students have scrupulously organized the event for the Academic year of 2013-14.



Figure 42:-Student awarded prize for dandiya decoration competition in navaratri



Figure 43:-Student actively participating in navaratri

Dahihandi

The event is based on the legend of the child-god Krishna stealing butter. A participant in this festival is called a govinda or govindapathak. It is mostly popular in the state of Maharashtra. It is part of the main festival Gokulashtami, which is known as Krishna Janmashtami in the rest of the country, and celebrates the birth of Krishna. This is celebrated on the next of Krishna Janmashtami. In Gharda Institute of technology students organize this

event and many students from our department actively participate in this event which includes singing kirtans and bhajan's till 12:00 am of janamashtami. Students of our department are volunteers to organize this event successful.



Figure 44: Students singing bhajan and celebarte Janamashtami.



Figure 45: Student actively participating in Gokulashtami (DahiHandi)

35. SWOC analysis of the department and future plans:

Strengths:

- State of art infrastructure and well equipped laboratories.
- Well qualified and blend of young and experienced, dedicated faculty members from reputed institutes.
- Dedication and team work among staff.
- Hard working and disciplined students.
- Focused and outcome based teaching learning process.
- Continuous evaluation system for students.
- Consistency in good university results.

- Adequate industrial training to students during vacations.
- Effective monitoring system for students.
- Adequate exposure of Chemical industries to students and staff as the college located at the vicinity of MIDC, Lote.

Weaknesses:

- Insufficient R & D and Consultancy work in past years.
- Lack of funding from government agencies.
- Less publication in referred journals.
- Interpersonal and communication skills of students.
- Lack of approved research lab for research scholars.
- Insufficient networking with the past students (alumni).

Opportunities:

- Scope for collaboration with nearby industries.
- Scope for preparing the students for competitive exams like GATE, GRE, etc
- Scope for developing the technical workshops for students.
- Scope for improving the students' technical and communication skills required by the Chemical industries.
- Scope for creation of R and D facilities in department.
- Scope for taking consultancy assignment for departmental revenue generation.
- Scope for undertaking the projects (final year) with nearby industries.
- Scope for use of advanced teaching and learning aids in classroom.
- Scope for faculty to upgrade the educational qualification.

Concerns/constraints:

- Non flexible academic curriculum.
- Low quality intake of students.
- Less amount of experimental research/work due to unavailability of analysis equipment such as GC, HPLC etc.
- Non availability of PhD guide (professor) with the department.
- Fetching reputed core industries for campus placements.
- Due to less experience in research of most of the faculty members which may affect on quality of research, international papers. (SCI journal)

Future Plans:

- To have the quality research publications in SCI Journal (Science Citation Index)
- Start the IChE students Chapter
- Increase the institute- industry interaction
- Enrolling students for internship in IITs and NITs
- To fetch the projects from Government funding Agencies (DST, DBT, UGC etc.)
- Developing the approved research centre for R & D activities.
- Organising the technical workshops for staff and students in the department.
- Organising the national conference for staff and students in department.
- Starting the PG course in Chemical Engineering.
- Creating more job opportunity for students through campus placements.

Evaluation Report of the department

1. Name of the department: - CIVIL

2. Year of establishment: 2010-2011

3. Names of programmes / courses offered:

Sr. No.	Programme of Study	Description
01	UG in Civil Engineering	60 seats from 2010

4. Names of interdisciplinary courses and the departments/units involved:
(contribution of other departments to your dept.)

A.Y.:-16-17.

Sr. No.	Department	Year (FE/SE/TE/BE)	Semester	Subject
1	Chemical	SE	III & IV	Fluid Mechanics –I (CE-C306)
2	Applied Science & Humanities	FE	I	Applied Mathematics-I (FEC 101)
3		FE	I	Applied Physics-I (FEC 102)
4		FE	I	Applied Chemistry –I (FEC 103)
5		FE	I	Engineering Mechanics (FEC 104)
6		FE	I	Basic Electrical Engineering (FEC 105)
7		FE	I	Environmental studies (FEC 106)
8		FE	I	Basic workshop practice-I (FEL 101)
9		FE	II	Applied Mathematics-II (FEC 201)
10		FE	II	Applied Physics-II (FEC 202)
11		FE	II	Applied Chemistry -II (FEC 203)
12		FE	II	Engineering Drawing (FEC 204)

13		FE	II	Communication Skills (FEC 205)
14		FE	II	Basic workshop practice-II (FEL 201)
15		SE	III	Applied Mathematics – III (CE-C 303)
16		SE	IV	Applied Mathematics – IV (CE-C 401)
17		TE	V	Business Communication and Ethics (CE-C 506)

A.Y.:-15-16.

Sr. No.	Department	Year (FE/SE /TE/BE)	Semest er	Subject
1	Mechanical	SE	III & IV	Fluid Mechanics –I & II (CE-C306 & CE –C406)
2	Applied Science & Humanities	FE	I	Applied Mathematics-I (FEC 101)
3		FE	I	Applied Physics-I (FEC 102)
4		FE	I	Applied Chemistry –I (FEC 103)
5		FE	I	Engineering Mechanics (FEC 104)
6		FE	I	Basic Electrical Engineering (FEC 105)
7		FE	I	Environmental studies (FEC 106)
8		FE	I	Basic workshop practice-I (FEL 101)
9		FE	II	Applied Mathematics-II (FEC 201)
10		FE	II	Applied Physics-II (FEC 202)
11		FE	II	Applied Chemistry -II (FEC 203)
12		FE	II	Engineering Drawing (FEC 204)
13		FE	II	Communication Skills (FEC 205)

14		FE	II	Basic workshop practice-II (FEL 201)
15		SE	III	Applied Mathematics – III (CE-C 303)
16		SE	IV	Applied Mathematics – IV (CE-C 401)
17		TE	V	Business Communication and Ethics (CE-C 506)

A.Y.14-15

Sr. No.	Department	Year (FE/SE /TE/BE)	Semester	Subject
1	Mechanical	SE	III & IV	FLUID MECHANICS –I & II(CE-C306 & CE –C406)
2	Applied Science & Humanities	FE	I	Applied Mathematics-I (FEC 101)
3		FE	I	Applied Physics-I (FEC 102)
4		FE	I	Applied Chemistry –I (FEC 103)
5		FE	I	Engineering Mechanics (FEC 104)
6		FE	I	Basic Electrical Engineering (FEC 105)
7		FE	I	Environmental studies (FEC 106)
8		FE	I	Basic workshop practice-I (FEL 101)
9		FE	II	Applied Mathematics-II (FEC 201)
10		FE	II	Applied Physics-II (FEC 202)
11		FE	II	Applied Chemistry -II (FEC 203)
12		FE	II	Engineering Drawing (FEC 204)
13		FE	II	Communication Skills (FEC 205)
14		FE	II	Basic workshop practice-II (FEL 201)

Sr. No.	Department	Year (FE/SE/TE/BE)	Semester	Subject
15		SE	III	Applied Mathematics – III (CE-C 303)
16		SE	IV	Applied Mathematics – IV (CE-C 401)
17		TE	V	Business Communication and Ethics (CE-C 506)

A.Y.13-14

Sr. No.	Department	Year (FE/SE/TE/BE)	Semester	Subject
1	Mechanical	SE	III & IV	FLUID MECHANICS –I & II (CE-C306 & CE –C406)
2	Applied Science & Humanities	FE	I	Applied Mathematics-I (FEC 101)
3		FE	I	Applied Physics-I (FEC 102)
4		FE	I	Applied Chemistry –I (FEC 103)
5		FE	I	Engineering Mechanics (FEC 104)
6		FE	I	Basic Electrical Engineering (FEC 105)
7		FE	I	Environmental studies (FEC 106)
8		FE	I	Basic workshop practice-I (FEL 101)
9		FE	II	Applied Mathematics-II (FEC 201)
10		FE	II	Applied Physics-II (FEC 202)
11		FE	II	Applied Chemistry -II (FEC 203)
12		FE	II	Engineering Drawing (FEC 204)
13		FE	II	Communication Skills (FEC 205)

14		FE	II	Basic workshop practice-II (FEL 201)
15		SE	III	Applied Mathematics – III (CE-C 303)
16		SE	IV	Applied Mathematics – IV (CE-C 401)
17		SE	V	Business Communication and Ethics (CE-C 506)

5. Annual/ semester/choice based credit system (programme wise):

Sr. No.	Programme of Study	Type of System
1	UG in CIVIL Engineering	Semester from 2007 to 2012
2	UG in CIVIL Engineering (from 2013-14)	CBGS from 2012 to 2016
3	UG in CIVIL Engineering (from 2017-18)	CBCGS from 2016 to till date

The University of Mumbai has implemented Credit Based Grading System pattern since 2012 for the civil engineering programme.

6. Participation of the department in the courses offered by other departments:

A.Y-2016-17.

Sr. No.	Department	Year (FE/SE/TE/BE)	Semester	Subject
01	Mechanical, Chemical, Computer, Electronics and Telecommunications.	FE	II	Engineering Drawing (FEC 204)

A.Y-2012-13.

Sr. No.	Department	Year (FE/SE/TE/BE)	Semester	Subject
01	Mechanical, Chemical, Computer, Electronics and Telecommunications.	FE	I	Engineering Mechanics (FEC 104)

02	Mechanical, Chemical, Computer, Electronics and Telecommunications.	FE	II	Engineering Drawing (FEC 204)

For the academic year 2012-13, the department has conducted the courses of Engineering Mechanics and Engineering Drawing.

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

Collaborated Institute/Industry Course Conducted/Contribution

- The department runs NPTEL certification courses which include Concrete Technology, Project Planning and Control, Advanced Building Material.
- Skill development courses (Pramod Mahajan Kaushlya Vikas Yojana) for students in the Konkan Region includes Communication Skills.

8. Details of courses/programmes discontinued (if any) with reasons:

Sr.No.	Name of Course	Semester	Reasons
1	Entrepreneurship management	V	Due to Industry requirement content is revised.

9. Number of teaching posts: 2016-17

Sr. No.	Designation	Sanctioned	Filled
1	Professor	1	0
2	Associate Professors	2	0
3	Asst. Professors	14	18

Civil Engineering has a wide scope everywhere in the fields of industry and education. As the institute is located in Konkan region there is less approach of people. However, faculties from the department are pursuing Ph.D. and will be eligible for above mentioned post in next few years.

10. Faculty profile with name, qualification, designation, specialization,
(D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Regular faculty list: 2016-17

Sr · N o.	Name	Qualificati on	Desig natio n	Specializatio n	No of years of experie nce	Phot o
1	Prof. A.D.Bhosale	M. Tech. PhD (pursuing)	Asst. Prof	Structural Engineering, Engineering Mechanics.	20	
2	Prof. G.D.Parulekar	ME	Asst. Prof	Construction Management, Transportatio n. Quantity Survey Valuation.	6	
3	Prof. V.S.Jadhav	ME	Asst. Prof	Structural Engg. Strength of Material. Hydraulics.	6	
4	Prof. S.S.Patil	ME	Asst. Prof	Construction Management. Concrete Technology.	4	
5	Prof. R.I.Hujare	ME	Asst. Prof	Environmenta l Engineering, Solid Waste management.	5	
6	Prof. V.D. Kamble	ME	Asst. Prof	Environmenta l Engineering, Surveying. Construction Engineering	2	
7	Prof. Y.R.Kulkarni	MSc. NET Ph.D (perusing)	Asst. Prof	Geology.	2	
8	Prof. N.A.Kolekar	M.A.,SET, Ph.D (perusing)	Asst. Prof. (Share	British Literature and Soft Skills	8	

			d)			
9	Prof. B.S.Potdar	MSc.	Asst. Prof.	Fractional Calculus, Functional Analysis	12	
10	Prof. P.S.Mhetre	MSc.	Asst. Prof. (Share d)	Support Vector Machine	7	

Temporary/ADHOC faculty list:

Sr · No.	Name	Qualifica tion	Designati on	Specializat ion	No of years of experie nce	Photo
01	Prof. N. H. Koppa	M. Tech.	Asst. Prof	Geotechnic al Engineerin g, Survey	02	
02	Prof. M. D.Ghadge	ME	Asst. Prof	Structural Engineerin g, Irrigation	02	
03	Prof. S. S. Gujarathi	ME	Asst. Prof	Structural Engineerin g, Fluid Mechanics.	02	
04	Prof. Tambe Asma M. S.	MSc.	Asst. Prof. (Shared)	Operational Research	9	

05	Prof. Phatak Sonali S.	MSc.	Asst. Prof. (Shared)	Numerical Techniques	3	
06	Prof. V.R. Kasar	ME	Asst. Prof	Water Resource and Environmental Engineering	6	
07	Prof. A.H. Shrigondekar	ME	Asst. Prof	Structural Engineering	0.5	
08	Prof. A.S. Jadhav	ME	Asst. Prof	Transportation Engineering	01	

Note: The Institute does not offer PG and Ph. D programme.

11. List of senior visiting faculty:

Name of Visitors	Year	Subject
Dr. U.S. Patil	2015-16	Applied Hydraulics -I CEC504
Prof. Gujarati S.N.	2016-17	Building material and construction CEC304

12. Percentage of lectures delivered and practical classes handled (programme wise) by

Temporary faculty: (2015-16, if possible for year 2016-17)

Department of Civil Engineering	% of lectures delivered	% of practical classes handled
2016-17	41.00	59.00
2015-16	67.50	65.55
2014-15	51.63	50.00
2013-14	44.26	45.19

Note: The temporary/Adhoc faculty percentage appears large. The appointing/approval authority is University and as per the norms, faculty does not go into category of permanent faculty until clear vacancy as per the reservation policy or roster exists. Institute is required to treat these faculty members as temporary till such clear vacancy becomes available as per the norms of the university.

13. Student -teacher ratio: (Academic Year: 2016-17)

$$\begin{aligned}\text{Student -teacher ratio} &= 315:18 \\ &= 17.5\end{aligned}$$

14. Number of academic support staff (technical) and administrative staff; Sanctioned and filled:

Sr. No.	Designation	Sanctioned	Filled
1	Academic Support Staff (technical)	03	03
2	Administrative Staff	NA (see note)	NA(see note)

Note: Total 22 number of administrative staff and 60 number of house keeping staff are available in the institute and are shared by all departments.

15. Qualifications of teaching faculty with D.Sc/ D.Litt/ Ph.D / MPhil / PG.:

Qualification	No. Of staff 2016-17
Ph. D faculties	Nil
Ph. D pursuing faculty	03
PG faculty	15

Revise as per new scheme

16. Number of faculty with ongoing projects from funding agencies and grants received:

a) National

Sr. No.	Funding Agency	Name of Project	Grant Received
NIL			

b) International

Sr. No.	Funding Agency	Name of Project	Grant Received
NIL			

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total Grants received:

Sr. No.	Funding Agency	Name of Project	Grant Received
NIL			

Note: In academic year 2016-17, one project proposal is submitted to University of Mumbai (UGC funding)

18. Research centre /facility recognized by the university: As the Programme is new; hence as per the rules such approval is not possible at present.

19. Publications:**a) Publication per faculty:**

- Number of papers published in peer reviewed journals (national /international) by faculty and students
- * Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database -International Social Sciences Directory, EBSCO host, etc.)

Faculty publication details:

S r . N o .	Name of the facult y	2012-13				2013-14				2014-15				2015-16				2016-17				T o t a l
		I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	
01	A.D. Bhosale		1				1				1											3
02	N H Koppa													2	1				1			4
03	G.D.P arulekar						3	9												1		13
04	V.S.J adhav			1					1													2
05	V.D.k amble										1			3								4
08	S.S.P atil													1								1
09	N.A. Kolekar													3			1					4
10	P. S. Mhetre														1		1					2
11	B. S.Potdar				1				1				1									3
12	A.H.S hrigondeka																			1		1

	r																			
1 3	V.R. Kasar																	1	1	
	Total		1	1	1		4	9	2	3	2		1	9	2		2	1	3	4 1

Faculty publication with impact factor:

Sr · N o.	Author/s	Name of Journal / Conference	Title of Paper	Acade mic Year	Impac t factor
1	Prof. A.D.Bhosale	Bloomsbury Publishing India Pvt.Ltd.	Seismic Control of St using slope bottom TLD	2014-15	-----
2	Prof. V.D.Kamble	International Conference of Biotechnology, Chemical and Civil Engineers 2015	Bio denitrification of waste water by using FBBR Technology and by the use of waste roofing construction tiles	2014-15	-----
3	Prof. V.D.Kamble	International Journal of Engineering Research & Technology (IJERT)	Floating Concrete by using Light weight Aggregate & air intrening Agents	2014-15	1.76
4	Prof. V.D.Kamble	International Conference of Biotechnology, Chemical and Civil Engineers 2015	Biodenitrifica tion of waste water by using FBBR Technology and by the use of waste roofing construction	2014-15	-----

			tiles		
5	Prof. V.D.Kamble	(IJAFRSE)International Journal of Advance Foundation and Research in Science and Engineering	Biodenitrification of waste water by using FBBR Technology and by the use of waste roofing construction tiles	2014-15	1.036
6	Prof. Ghadge M.D.	International Journal of Engineering Research & Technology (IJERT)	Floating Concrete by using Light weight Aggregate & air intrening Agents	2014-15	1.76
7	Prof. Ghadge M.D.	43th ISTE National Annual Conference	Use of Solid Waste as Fuel	2013-14	-----
8	Prof. S.S.Gujarathi	International Journal of Engineering and Research	Use of Slim column for Cost effective and asthetic Construction	2015-16	0.342
9	Prof. N.H.Koppa	Asian civil engg. Journals	An experimental bihaviour of fine grained soilby using sand content	2015-16	3.8
10	Prof. S.S.Patil	International Journal Of Advanced Research in Science and Engineering	Assesment of Present fire safty status of public buildings in india	2014-15	2.83
11	Prof. V.S.Jadhav	National Conference on Recent Advances in Engineering and	An overview of pre engineering building	2013-14	-----

		Technology	structures -A survey		
12	Prof. V.S.Jadhav	The Rising Research Journal Publication	Pushover analysis of Coldformed steel rack of “C” Shaped uprides and beams with rigid and semirigid joints	2012-13	0.654
13	Prof. G.D.Parulekar	National Conference on Recent Advances in Engineering and Technology	An overview of pre engineering building structures -A survey	2013-14	----- --
14	Prof. G.D.Parulekar	National Conference on Recent Advances in Engineering and Technology	Use of Wireless communication System	2013-14	----- -
15	Prof. G.D.Parulekar	National Conference on Recent Advances in Engineering and Technology	Rain water hardwasting ConeavSION of it drop were it falls.	2013-14	----- -
16	Prof. G.D.Parulekar	National Conference on Recent Advances in Engineering and Technology	Effect of use of waste tyre in civil engg. works	2013-14	-----
17	Prof. G.D.Parulekar	National Conference on Recent Advances in Engineering and Technology	Nano technology and consrtuction industry	2013-14	----- -
18	Prof. G.D.Parulekar	National Conference on Recent Advances in Engineering and Technology	Gray Water re-cycleing	2013-14	-----

19	Prof. G.D.Parulekar	National Conference on Recent Advances in Engineering and Technology	Analysis of use of steel scrap from workshop to modify strength of concrete	2013-14	----- --
20	Prof. G.D.Parulekar	National Conference on Recent Advances in Engineering and Technology	Application of waste glass powder in concrete	2013-14	----- -
21	Prof. G.D.Parulekar	National Conference on Recent Advances in Engineering and Technology	Analysis of partial replacement of cement by nutrualized red mud	2013-14	----- --
22	Prof. G.D.Parulekar	National Conference on Recent Advances in Engineering and Technology	Comperision between ordinary pavement and wire mesh pavement	2013-14	----- --
23	Prof. G.D.Parulekar	National Conference on Recent Advances in Engineering and Technology	Concrete with solid waste material	2013-14	----- --
24	Prof. G.D.Parulekar	National Conference on Recent Advances in Engineering and Technology	Improving life of bitumeneous road by using waste	2013-14	----- --
25	Prof. G.D.Parulekar	International Organization of Scientific Research	Vehicle detect and monitor techniques for intelligent transportation	2013-14	1.2
26	Prof. G.D.Parulekar	International Organization of Scientific Research	Road safety and intelligent transportation	2013-14	1.2

27	Prof. G.D.Parulekar	International Organization of Scientific Research	An overview of intelligent transportation system-A survey	2013-14	1.2
28	Prof. N.H.Koppa	5 th ICFGE, IISc Bangalore	Stress-Strain Behavior of fine grained soil with varying sand content	2016-17-	
29	Prof. A.H.Shrigond ekar	National Conference on Recent innovation in Engineering 2017	Behavior of RC overhead water tank under different staging pattern	2016-17-	

Note: Impact factor as obtainable by The Global Impact Factor.com is quoted.

List of patents awarded to faculties:

Sr. No.	Faculty Name	Title of Patents	Details
NIL			

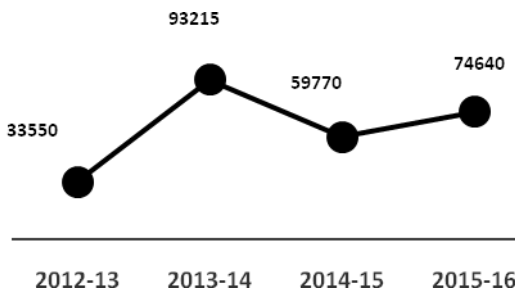
List of scientific/ technical books written by faculty members:

Sr. No.	Author/s Name	Title of Books	Details
1	N.H.Koppa	Geotechnical Engineering- A Practical Handbook	Useful to learn concept of Geotechnical Engineering
2	Y.R.Kulkarni	Engineering Geology -A Practical Handbook	Useful to learn concept of Engineering Geology
3	M.D.Ghadge	Irrigation Engineering -A Practical Handbook	Useful to learn concept of Irrigation Engineering.
4	M.D.Ghadge	Building Materials -A Practical Handbook	Useful to learn properties and use of Building Materials
5	R.I Hujare	Environment Engineering- A	Useful to learn concept of Environmental Engineering.

		Practical Handbook	
6	V.D.Kamble	Construction Engineering- A Practical Handbook	Useful to learn method and use of Engineering Machinery.
7	A.D.Bhosale	A Practical Handbook of Strength of material and Limit state method	Useful to learn analysis and design of structure.
8	V.S.Jadhav	A Practical Handbook of Structural analysis	Useful to learn analysis of structural components.
9	S.S.Patil	A Practical Handbook of Transportation Engineering	Useful to learn concept and design related to transportation.
10	G.D.Parulekar	A Practical Handbook of Estimation and valuation	Useful to learn concept and calculations related to estimation and valuation
11	G.D.Parulekar	A Practical Handbook of Construction Management	Useful to learn concept and scheduling of construction projects.

Note All above are study materials for internal circulation and printed by the Institute.

20. Areas of consultancy and income generated:

Sr. No .	Area of Consultancy	Income generate d 2012-13	Income generate d 2013-14	Income generate d 2014-15	Inco me gene rated 2015 -16	Income generat ed 2016-17	Total										
01	Concrete Technology , Soil Transportation Engg. Lab.	 <table><caption>Income Generated Data for Concrete Technology, Soil Transportation Engg. Lab.</caption><thead><tr><th>Year</th><th>Income Generated</th></tr></thead><tbody><tr><td>2012-13</td><td>33550</td></tr><tr><td>2013-14</td><td>93215</td></tr><tr><td>2014-15</td><td>59770</td></tr><tr><td>2015-16</td><td>74640</td></tr></tbody></table>				Year	Income Generated	2012-13	33550	2013-14	93215	2014-15	59770	2015-16	74640	81500	342675
Year	Income Generated																
2012-13	33550																
2013-14	93215																
2014-15	59770																
2015-16	74640																
02	Road survey to minimize accident rate.(No funding)		Joint road survey from Kasheree to Chiplun with Traffic Police Department to minimize accident rate during Ganpati Festival due to heavy traffic. (1 & 2 September 2015)														
03	Geotechnical Consultancy (No funding)		Survey and analysis of landslide and seepage loss in Konkan region. (Sangmeshwar and lote parshuram)														

21. Faculty as member in**a) National committees b) International committees c) Editorial boards**

Sr. No.	Name of faculty	Committee
1	Prof. S.S.Nandgaonkar	Syllabus setting committee, University of Mumbai (1/02/2013)
2	Prof. G. D. Parulekar	Syllabus setting committee, University of Mumbai (10/01/17)
3	Prof. S. S. Patil	Syllabus setting committee, University of Mumbai (10/01/17)

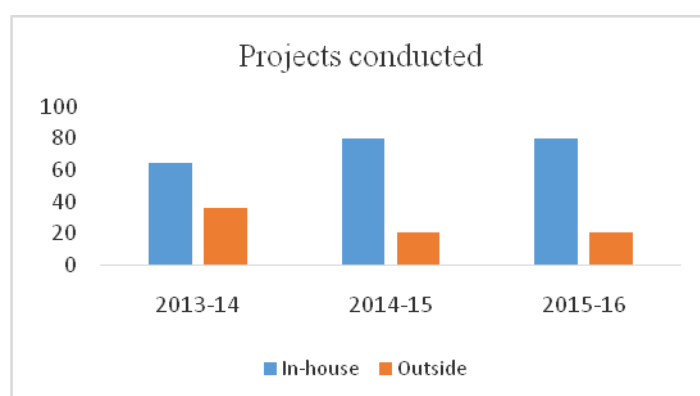
22. Student projects:

- e) Percentage of students who have done in-house projects including interdepartmental /programme

Year	%
2016-17	77.00
2015-16	80.00
2014-15	80.00
2013-14	64.29

- f) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies

Year	%
2016-17	23.00
2015-16	20.00
2014-15	20.00
2013-14	35.71

**23. Awards / Recognitions received by faculty and students:**

Sr. No.	Year	Name of Faculty/Student	Awards/Recognition
1	2016-17	Prof N. H. Koppa	Reviewer & member of IEAE Journal & IJBMS journals
2		Prof N. H. Koppa	Mentor of NPTEL
3		Prof G. D. Parulekar	Mentor of NPTEL
4		Prof V S Jadhav	NPTEL Certification
5		Shubham Thakur	NPTEL Certification
6		Sudesh Thombre	NPTEL Certification
7		Chinamy Damale Nutan More Maurya Sadvilkar	2 nd Rank in Avishkar

		Jairaj Jaguste	
1	2015-16	A.D. Bhosale	Best Teacher Award
2		Madhura Kamble	Poster Prasantation (1 st Prize) SHODH 2016
3		Shubham Thakur/Kadvekar Tanvir	Poster Presentation (2 nd Prize) SHODH 2016
4		Shubham Devlekar	Tendering (1 st Prize) SHODH 2016
5		Chandrashekhar Parab/Vaishali Chouhan/Rajendra Rajge	Creative Modelling (1 st Prize) SHODH 2016
6		Vinay Jadhav	Setu (2 nd Prize) SHODH 2016
7	2014-15	A.D. Bhosale	Best Teacher Award
8		Ganesh Patil/ Bhupendra Agarwal	Paper presenttion (1 st Prize) SHODH 2015
9		Vaishali Chuhan	Paper presenttion (2 nd Prize) SHODH 2015
10		Sudhakar singh/ Rajendra Rajge	Poster presentation (1 st Prize) SHODH 2015
11		Madhura Kamble/ Uday Mane	Poster presentation (2 nd Prize) SHODH 2015
12		Bhupendra Agarval / Ganesh Patil / Raman Jain/ Kundan Gaikwad	Town Planning (1 st Prize) SHODH 2015
13		Vaishali Chuhan / Rucha Bhingarde/ Saiyli Bhagne/ Harshada Ghune	Town Planning (2 nd Prize) SHODH 2015
14		Pankaj Naik / Kailas Parab	Slump Cone (1 st Prize) SHODH 2015
15		Ganesh Patil /Raman Jain	Slump Cone (2 nd Prize) SHODH 2015
16		Darshak Shinde/ Abhishek Kadam	Setu (1 st Prize) SHODH 2014
17		Ganesh Patil / Amar Patil	Setu (2 nd Prize) SHODH 2015
18		Solkar Waqar	9 th University Ranker
19		Wakar Solkar	Institute Rank: 1 University Rank: 9 (81.13%)
20		Shelar Omkar	Institute Rank:2 University Rank: 52 (76.46%)
21		Phutane Shushant	Institute Rank: 3 University Rank:73 (75.33%)

22	2013-14	Patil Aniket/Sharad jadhav	Poster presentation (1 st Prize)
23		Kamble Madhura/Mane Uday	Poster presentation (2 nd Prize)
24		Sonu Wishwakrma/Ganesh Tatkare	Paper presenttion (1 st Prize) SHODH2014
25		Ganesh Patil/ Sushant Phutane	Setu (1 st Prize) SHODH 2014
26		Rakesh Singh/ Swapnil Paje	Setu (2 nd Prize) SHODH 2014
27		Rakesh Singh/ Swapnil Paje	Stambha (1 st Prize) SHODH 2014
28		Abhinav Kamble / Darshak Shinde	Aakruti (1 st Prize) SHODH 2014
29		Mansi Mokal / Chitali Rokde	Aakruti (2 nd Prize) SHODH 2014
30		Rshikesh Pawar/ Ganesh Patil	Field Expo (1 st Prize) SHODH 2014
31		Pratik Joshi/ Ankur Kokitkar	Field Expo (2 nd Prize) SHODH 2014
32		Ashotosh Darekar /Rahil Bhavani	Slump Cone (1 st Prize) SHODH 2014
33		Aniket Patil	Institute Rank: 1 University Rank: 24 (77.06%)
34		Mahesh Patel	Institute Rank: 2 University Rank: 25 (77.06%)
35		Sharad Jadhav	Institute Rank: 3 University Rank: 29(75.26%)
36	2012-13	A.D. Bhosale	Best Teacher Award
37		Raeed Bhatkar	Paper presentation (2 ND Prize) in SHODH 2013
38		Prasad Indulkar/Nitesh Mohire	Poster presentation (1 st Prize) in SHODH 2013
39		Raeed Bhatkar/Fhar aeed Tahsildar	Poster presentation(2 ND Prize) in SHODH 2013
40		Ashutosh Darekar/Akib Sakarkar	Field Expo (1 ST Prize)
41		Ganesh Patil/Rushikesh pawar	Field Expo (2 nd Prize)
42		Akshay Kupekar/ganesh tatkare	Akruti (1 ST Prize)
43		Prasanna joshi/Swapnil Peje	Akruti (2 nd Prize)
44		Ganesh Patil/Rushikesh	Setu (1 st Prize)

		pawar	
45		Rakeshkumar Singh/ Swapnil Peje	Setu (2 nd Prize)

24. List of eminent academicians and scientists / visitors to the department:

2016-17

Sr. No.	Name of the Person	Designation	Place of Work	Purpose of Visit
1	Dr. A. B. Marathe	Principal, Amravati college	Amravati	NAAC Guidance

2015-16

Sr. No.	Name of the Person	Designation	Place of Work	Purpose of Visit
1	Padmshree Dr. K.H. Gharda	Trustee, Gharda Foundations, BOD GCL	H.O. GCL Mumbai	Inauguration of civil dept and national conference (Chemical)
2	Dr. Shantanu Chakrabarty	Head Technologist, TATA STEEL	Kolkata	Expert talk and career guidance
3	Mr.Dilip Desai	Desai Associate	Konkan Region	Expert talk and career guidance
4	Mr. Bhat	Deputy Engg.MIDC,Lote	MIDC,Utility section	Expert talk and career guidance
5	Mr. V. Sindhihatti	Sr.Manager,Civil	Gharda Chemicals	Expert talk and career guidance
6	Prof. M.R.Bhosale	Principal	SPS Sawarde.	Expert talk and career guidance
7	Mr.U.B.Landge	Vise Principal	SPS Sawarde.	Expert talk and career guidance



Visit of Dr. Shantanu Chakrabarty



Visit of Padmashree Dr. K.H. Gharda

25. Seminars/ conferences/workshops organized & the source of funding

a) National

b) International:

Sr. No.	Seminars/ Conferences/Workshops Organized	Source of Funding
01	Workshop – Introduction to Structural Analysis	IIT, Khargpur.

26. Student profile programme/course wise:

ACADEMIC YEAR - 2016-17					
Branch	Applications Received	Selected	Students Admitted		Pass Percentage
			M	F	
F.E.		56	41	15	
S.E.		78	53	25	
T.E.		84	63	21	
B.E.		97	75	22	
TOTAL		315	232	83	

ACADEMIC YEAR - 2015-16					
Branch	Applications Received	Selected	Students Admitted		Pass Percentage
			M	F	
F.E.	64	51	44	7	62.75
S.E.	103	78	58	20	89.84
T.E.	78	80	61	19	97.53
B.E.	80	62	54	8	98.14
TOTAL	325				87.06

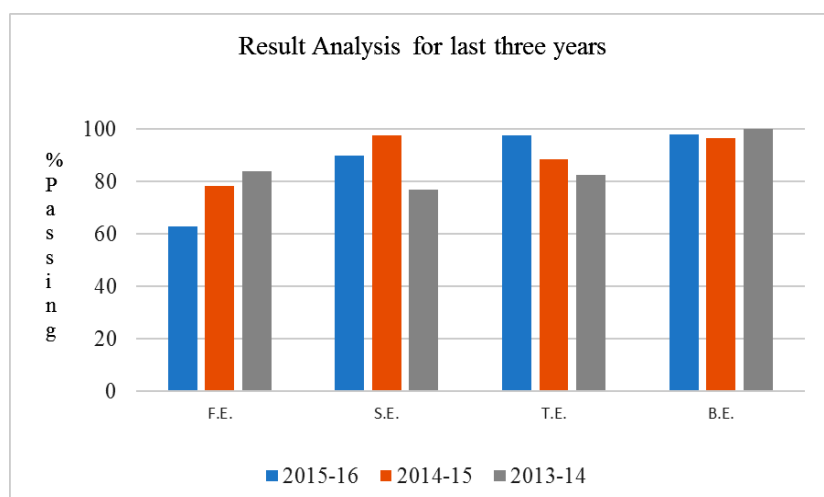
ACADEMIC YEAR - 2014-15

Branch	Applications Received	Selected	Students Admitted		Pass Percentage
			M	F	
F.E.	50	37	25	12	78.38
S.E.	61	80	62	18	97.56
T.E.	80	63	55	8	88.57
B.E.	63	53	43	10	96.61
TOTAL	254				90.28

ACADEMIC YEAR - 2013-14

Branch	Applications Received	Selected	Students Admitted		Pass Percentage
			M	F	
F.E.	77	63	46	17	84.12
S.E.	93	83	73	10	77.01
T.E.	70	70	60	10	82.43
B.E.	49	50	44	6	100
TOTAL	289				85.89

M = Male F = Female



27. Diversity of students:

Department: Civil Engineering			
Academic Year	% of students from the same state	% of students from other states	% of students from abroad
2016-17	100	0	0
2015-16	98.40	1.60	0
2014-15	96.64	3.33	0
2013-14	100	0	0

Note: Institute population of students is dominantly from local rural area.

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?

Year	Name of competitive examinations	No. Of Students
2015-16	GATE	01
2014-15	GATE	02
2013-14	GATE	02
2012-13	NA	

29. Student progression:

Students Progression		% Against enrolled				
		Academic Year				
		2016-17	2015-16	2014-15	2013-14	2012-13
UG to PG				8.16	10.2	NA
Employed	1) Campus selection	12.5	Nil			
	2) Other than campus recruitment	8.33	10.52	71.42	56.52	NA

- Nikhil Joshi (academic year 2013-14) and Akshay Gotad (2014-15) selected and admitted for Master Degree in Texas and Florida University respectively.
- Sonu vishwakarma (2013-14) completed M.E. From VJTI and Joined Gaman India as assist. Manager civil.

30. Details of infrastructural facilities:**a) Departmental library:**

1. Area of the library (in Sq. Mts.): 55.58_ Sq meter
2. Seating capacity: 10 Students
3. Library holdings:

Library Holdings	No. of Titles	No. of Volumes
Books	76	0
Journals/periodicals	8 (Available at central Library)	Available at central Library
Newspapers	NIL	NIL
E-resources	2(Available at central Library)	2(Available at central Library)
Project reports	37	0
Seminar reports	15	1
Any other (IS CODES)	IS3370 (Part-1)/ IS456/IS 800/IS3370/IS875	0

b) Internet facilities for staff & students:

- 1) ISP – 02_
- 2) Leased line 30 Mbps, 04 Mbps.
- 3) Compression ratio 1:1
- 4) Wi-Fi facility: Yes
- 5) Firewall: Cyber roam

C) Class rooms with ICT facility:

Sr.No.	Room Description	Usage	Size in (Sq. M)	Capacity	Rooms Equipped with
1	SE CIVIL	CLASS ROOM	63.00	70	LCD, Green Board, CCTV,OHP,WHITE BOARD
2	TE CIVIL	CLASS ROOM	70.00	70	Green Board, CCTV, Projector (Movable)
M	BE CIVIL	CLASS ROOM	70.00	70	Green Board, CCTV,Projector (Fixed), Smartboard

d) Laboratories:

Lab No	Curriculum Lab Description	Use Exclusive/ Shared	Space (Sq.m)	Lab In charge	Investment
01	Concrete technology lab & Building Construction material lab	Exclusive	95.40	G.D.Parulekar	23,38,298.00
02	Transportation Engg. Lab	Exclusive	70.00	S.S.Patil	1,46,237.00
03	Geotechnical Engg. Lab.	Exclusive	70.00	N.H.Koppa	5,81,149.00
04	Applied Hydraulics lab	Exclusive	107.64	V.S.Jadhav	6,33,171.00
05	Geology Engg. Lab	Exclusive	60.00	Y.R.Kulkarni	1,47,350.00
06	Computer lab	Exclusive	35.40	A.D.Bhosale	5,31,725.00
07	Environmental Engg. Lab	Exclusive	107.64	R.I.Hujare	3,38,795.00
08	Surveying lab	Exclusive	63.00	V.D.Kamble	16,05,886.00
	Total				63,22,611.00

Labs in Civil Department

Wind Tunnel in Applied Hydraulics lab



Universal Testing Machine in Concrete Technology Lab



Compression Testing Machine in Concrete Technology Lab



Total Station Instrument in Survey Lab

31. Number of students receiving financial assistance from college, university, government or other agencies:

Academic Year	financial assistance from (Agency)	No. of students benefited
2016-17	Gharda Institute of Technology	09
	EBC	34
	TFWS (Gharda Institute of Technology)	11
2015-16	State Government	112
	Gharda Institute of Technology	09
	TFWS (Gharda Institute of Technology)	02
2014-15	State Government	88
	Gharda Institute of Technology	06
	Sansthan Shridev Bhargavram Scholarship	00
	TFWS (Gharda Institute of Technology)	02
2013-14	State Government	112
	Gharda Institute of Technology	06
	Sansthan Shridev Bhargavram Scholarship	02
	TFWS (Gharda Institute of Technology)	02

2012-13	State Government	79
	Gharda Institute of Technology	03

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Academic Year: 2016-17					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date	Duration	Target Students
01	3D MAX	A-Tech Consultancy (Zahir Sheikh)	31/1/17 to 15/2/17	16 DAYS	09
02	STADD PRO	A-Tech Consultancy (Shrivallabh Chavan)	31/1/17 to 15/2/17	16 DAYS	31

Academic Year: 2015-16					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date	Duration	Target Students
01	TOTAL STATION WORKSHOP	Mr. Gallop Design and Construction	12 & 13/03/ 2016	02 DAYS	52



Inaugural talk by Mr. V.D. Kamble



Felicitation of guest by Principal

The workshop was beneficial to faculty as well as students. How to conduct all types of survey using single equipment with high precision and accuracy is studied. To integrate and analyse all the data collected during this survey using Total Station with the help of software's are studied.

Academic Year: 2014-15					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date	Duration	Target Students
01	Structural Analysis-II	Prof.S.Phatak	13 to 29/09/2014	05 Day	70
This five-day lecture series covered vast syllabus of SA-II including moment distribution, slope deflection methods, flexibility method and stiffness matrix					

Academic Year: 2012-13					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date	Duration	Target Students
01	Structural Analysis-I	Prof. Dada Patil	28/10/2012	01 Day	46
This one day lecture covered cable suspension bridge.					

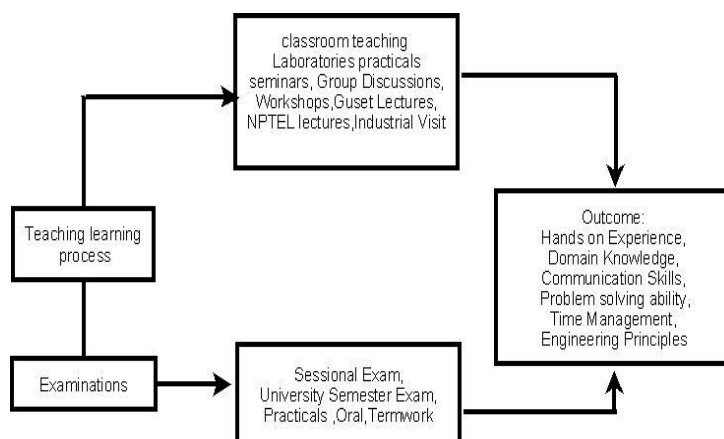


Prof. H. S. Phatak through Video Conferencing (SPC Mumbai)

33. Teaching methods adopted to improve student learning:

The different teaching methods are adopted for improving student learning as listed below:

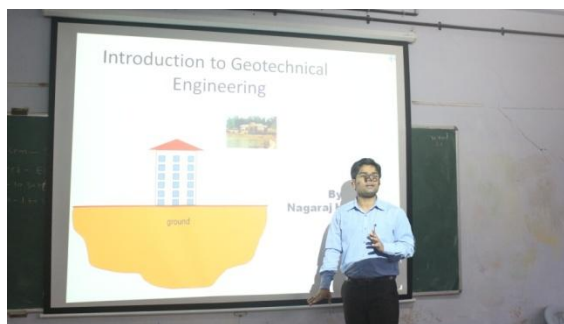
- 1) Lecture (LT)
- 2) Laboratory Session (LS)
- 3) Group Discussion (GD)
- 4) Seminar (SM)
- 5) Industrial Visit (IV)
- 6) Site visits(SV)



Flow chart of teaching learning process

1. Lecture (LT)

- Civil Department provides an academic calendar before the commencement of semester wherein the number of days for teaching and evaluation are available.
- Choice based preferences are asked for next semester before the staff members precede for vacation and load distribution is done by HOD taking into consideration these choices.
- The teaching plan is prepared by every course co ordinator prior to the starting of the semester which includes lecture number, topics planned, date, topics covered, practical plan, etc. It is approved and monitored by the HOD periodically.
- The subject teachers prepare/update their course file.
- Civil Department has made available class rooms equipped with LCD, OHP, Wi-Fi and Projectors.
- Expert Lectures / Video Conferencing Lectures (EL) are arranged to bridge the curriculum gap.
- Tutorial periods are conducted in order to give exercises to the students and also to closely monitor their learning ability and achievement. Those courses require more practice; tutorials are allotted to such courses.



Faculty teaching using OHP

- Computer laboratory of Civil department is equipped with necessary advanced software (STAAD PRO, Auto CAD) to cope up with new technologies.
- In order to improve the Written and Verbal Presentation Skills of the students, department and Institute organizes expert lectures on personality development and Soft Skills. Under the student's association a paper presentation, essay writing, model presentation and aptitude test are also organized to improve the overall quality of the students.
- Various STTP programs and guest lectures are arranged to boost the employable and life skills of students.

- Various career guidance and counseling session for final year students have been organized for better career option and community orientation and act accordingly.
- Problem solving sessions are arranged on individual basis before examinations in preparation leave to boost student's confidence.
- Extra contact hours by teachers are also provided for advanced learners.
- Extra sessions are arranged for subjects which are difficult from student's point of view to make them better understand with an additional working days (Holidays and Sundays)
- To compensate the delay in admission process, some additional working days are planned during semester and even after end of the semester.
- Entire campus is made available with free Wi-Fi facility to make available all e-learning material.
- NPTEL lecture series for various subjects is available in department.

2. Laboratory session (LS)

- Experiments are delivered in the Laboratories as per the scheme prescribed by the University of Mumbai.
- Internet facility is available in all laboratories.
- All laboratories are provided with Un-interruptible power supply (UPS)
- Within the working hours and beyond the working hours if necessary, all laboratories are open to the students, to carry their project works with full technical support.
- Extra laboratory slots are provided depending on the progress in the course practical work if necessary.
- Department has adequate and qualified technical supporting staff for programme specific laboratories.
- Technical staff assists teaching faculties and students for preparation and arrangement of practical setup.
- Technical staff looks after the minor maintenance of laboratory equipments.
- Laboratories are also used for various FDPs and STTPs.
- Log books are also maintained to keep track of usage of equipments and laboratories.
- Use of PPT presentation, Videos and Animations makes the sessions interactive and practical sessions improve the hands on skills.

3. Group Discussion (GD)

- The Institute encourages the faculty to use proactive teaching methodologies such as Quiz, Brain storming sessions, Group discussion and NPTEL lecture videos for making the session effective.
- Faculty members are encouraged to students to attend FDP, Seminars, Workshops and Conferences organized by AICTE, ISTE, MHRD, Industry and Universities.
- Students are encouraged to join Industry internship in vacation.
- Proper mentoring can enhance the chances of the development of career of student. The institution runs mentoring programme where the faculty member meets his mentees periodically and talks to him about his academic, co- curricular and extra-curricular progress.
- Faculties and students are encouraged to use NPTEL learning resources.



Group Discussion in Civil Department

4. Seminar (SM).

- Seminars are allotted to the students in group and or individually as per the scheme prescribed by the University of Mumbai or as per the requirement of course.
- Faculty members regularly attend various workshops and seminars for the development of the curriculum. Various faculty members attend the orientation program for the revision of syllabus.
- Whenever the university organizes workshop, seminar and conference for knowledge enhancement of the faculty, institute deputed the faculty to attend the same. Faculty members take the active participation and involvement to gain respective technology.
- Students are deputed for summer and winter internship programs in industries and also encouraged to identify and take the problem from industry for their projects.
- Different enrichment courses are conducted to fulfill the knowledge thirst of advanced learners.

- Students are encouraged to attend different workshops, seminars by industrial experts, training programs and to participate in various technical competitions organized by industries.
- Information about different scholarship schemes from various government and non-government organization is provided by institute.

5. Site Visits (SV)

- Site Visits are conducted as per scheme prescribed by the University of Mumbai or whenever necessary.
- Field trips, co-curricular and extra-curricular activities provide opportunities for students to explore new fields of interest, cultivate leadership skills, and learn teamwork.



Industrial Visit to Chiplun Railway Station



Visit to Nagarjun Sagar Dam, A.P.

34. Participation in institutional social responsibility (ISR) and extension activities:

Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	Freedom Run 2015	Civil Dept.- CASTEL	23/08/2015	01 DAY	100
2	Freedom Run 2014	Civil Dept.- CASTEL	15/08/2014	01 DAY	95
3	Freedom Run 2013	Civil Dept.- CASTEL	15/08/2013	01 DAY	80

Sr. No.	Activity	Academic Year	No. of students involved
1	NSS	2015-16	17 -Open to All
2	Blood donation		17 -Open to All
3	Tree Plantation		17- Open to All
4	Swachata Abhiyan		17 -Open to All
5	Art of Living		6 -Open to All
6	Yoga Day		5 -Open to All
7	Shiv Jayanti Celebration		150 -Open to All
8	Dr. Ambedkar Jayanti Celebration		15 -Open to All
9	Friendship-Day Celebration		100 -Open to All
10	Various Days: Sari Day, Traditional Day, Tie Day, Mix-Match Day Celebration		200 -Open to All
1	NSS	2014-15	10 -Open to All
2	Blood donation		10 -Open to All
3	Tree Plantation		10 -Open to All
4	Swachata Abhiyan		10 -Open to All
5	Art of Living		12 -Open to All
6	Yoga Day		8 -Open to All
7	Shiv Jayanti Celebration		125 -Open to All
8	Dr. Ambedkar Jayanti Celebration		17 -Open to All
9	Friendship-Day Celebration		150 -Open to All
10	Various Days: Sari Day,		250 -Open to All

	Traditional Day, Tie Day, Mix-Match Day Celebration		
1	NSS	2013-14	2 -Open to All
2	Blood donation		2 -Open to All
3	Tree Plantation		2- Open to All
4	Swachata Abhiyan		2 -Open to All
5	Art of Living		7-Open to All
6	Yoga Day		6-Open to All
7	Shiv Jayanti Celebration		90 -Open to All
8	Dr. Ambedkar Jayanti Celebration		12- Open to All
9	Friendship-Day Celebration		100- Open to All
10	Various Days: Sari Day, Traditional Day, Tie Day, Mix-Match Day Celebration		225-Open to All



Freedom Run 2015-16

35. SWOC analysis of the department and future plans:

Following Example is given for SWOC analysis for reference and guidance:

Strengths:

- Excellent infrastructure and well equipped laboratories with some special instruments such as wind tunnel, total station etc.
- Excellent consultancy activities through various civil domains.
- Implementing outcome based teaching-learning process & continuous assessment system for students.
- The determined and whole-hearted support from the management for development.

Weaknesses:

- Remote Location
- Inadequate research and Development activities.

- Scarcity of Doctorate candidates for faculty positions.
- Lack of awareness in students about competitive examinations.

Opportunities:

- Scope for more industry-institute interaction.
- Civil engineering technical manpower is ever growing in Global context.
- New technologies are emerging in civil field.

Challenges:

- Poor intake quality of students.
- Fetching reputed core industries for campus placements.
- To increase in research activities.
- Promoting the faculty for doctoral studies.
- Awareness about competitive exam in students.

Future Plans:

- NPTEL Courses & STTPs for students & faculties
- Workshop for students & faculties
- Lectures from Industrial person & eminent person.
- MOUs with contractors and construction firms

Evaluation Reports of the Department**Department of Computer Engineering****1. Name of the Department: Computer Engineering****2. Year of Establishment: 2007****3. Name of Programme / Course Offered:**

Sr. No.	Programme of Study	Description
1	UG in Computer Engineering	60 intake from establishment
		+3 intake(TFWS) From 2011

4. Names of interdisciplinary courses and the departments/units involved:

Sr. No.	Department	Year (FE/SE/TE/BE)	Semester	Courses
Academic Year 2016-17				
1	Applied Sciences & Humanities	FE	I	Applied Mathematics-I [FEC101]
2				Applied Physics-I [FEC102]
3				Applied Chemistry –I [FEC103]
4				Engineering Mechanics [FEC104]
5				Basic Electrical Engineering [FEC105]
6			II	Applied Mathematics-II [FEC201]
7				Applied Physics-II [FEC202]
8				Applied Chemistry -II [FEC203]
9				Engineering Drawing [FEC204]

10				Communication Skills [FEC206]
11		SE	III	Applied Mathematics – III [CSC301]
12			IV	Applied Mathematics – IV [CSC401]
13		TE	V	Business Communication and Ethics [CPL502]
14	Electronics & Telecommunication	SE	IV	Computer Organization & Architecture [CSC403]
15			III	Electronic Circuits and Communication Fundamentals [CSC306]
16		TE	VI	Mobile Communication & Computing

Sr. No.	Department	Year (FE/SE/TE/BE)	Semester	Courses
Academic Year 2015-16				
1	Applied Sciences & Humanities	FE	I	Applied Mathematics-I [FEC101]
2				Applied Physics-I [FEC102]
3				Applied Chemistry –I [FEC103]
4				Engineering Mechanics [FEC104]
5				Basic Electrical Engineering [FEC105]
6			II	Applied Mathematics-II [FEC201]
7				Applied Physics-II [FEC202]
8				Applied Chemistry -II [FEC203]
9				Engineering Drawing

				[FEC204]
10				Communication Skills [FEC206]
11		SE	III	Applied Mathematics – III [CSC301]
12			IV	Applied Mathematics – IV [CSC401]
13		TE	V	Business Communication and Ethics [CPL502]
14	Electronics & Telecommunication	SE	IV	Computer Organization & Architecture [CSC403]
15			III	Electronic Circuits and Communication Fundamentals [CSC306]
Academic Year 2014-15				
1	Applied Sciences & Humanities	FE	I	Applied Mathematics-I [FEC101]
2				Applied Physics-I [FEC102]
3				Applied Chemistry –I [FEC103]
4				Engineering Mechanics [FEC104]
5				Basic Electrical Engineering [FEC105]
6			II	Applied Mathematics-II [FEC201]
7				Applied Physics-II [FEC202]
8				Applied Chemistry -II [FEC203]
9				Engineering Drawing [FEC204]
10				Communication Skills [FEC206]
11		SE	III	Applied Mathematics – III [CSC301]
12			IV	Applied Mathematics – IV [CSC401]
13		TE	V	Business Communication and Ethics [CPL502]
14	Electronics & Telecommunication	SE	IV	Computer Organization & Architecture [CSC403]

15			III	Electronic Circuits and Communication Fundamentals [CSC306]
Academic Year 2013-14				
1	Applied Science & Humanities	FE	I	Applied Mathematics-I [FEC101]
2				Applied Physics-I [FEC102]
3				Applied Chemistry –I [FEC103]
4				Engineering Mechanics [FEC104]
5				Basic Electrical Engineering [FEC105]
6			II	Applied Mathematics-II [FEC201]
7				Applied Physics-II [FEC202]
8				Applied Chemistry -II [FEC203]
9				Engineering Drawing [FEC204]
10				Communication Skills [FEC206]
11		SE	III	Applied Mathematics – III [CSC301]
12			IV	Applied Mathematics – IV [CSC401]
13		SE	III	Presentation and Communication Techniques
14	Electronics & Telecommunication	SE	IV	Computer Organization & Architecture [CSC403]
15			III	Electronic Circuits and Communication Fundamentals [CSC306]
16		BE	VII	Digital Signal & Image Processing

5. Annual/ semester/choice based credit system (Programme Wise):

Sr. No.	Programme of Study	Type of System
1	UG in Computer Engineering	Semester from 2007 to 2012
		CBGS from 2012 to 2016
		CBCGS from 2016 to till date

6. Participation of the department in the courses offered by other departments:

Sr. No.	Department	Year [FE/SE/TE/BE)	Semester	Courses
Academic Year 2016-17				
1	Applied Sciences & Humanities	FE	II	Structural Programming Approach [FEC205]
2	Mechanical Engineering	SE	III	Data Base & Information Retrieval System [MEL306]
3	Civil Engineering	SE	III	Data Base & Information Retrieval System [CE-C307]
4	Electronics & Telecommunication	SE	III	Object Oriented Programming Methodology [CSC302]
5		TE	VI	Operating System ()

Sr. No.	Department	Year [FE/SE/TE/BE)	Semester	Courses
Academic Year 2015-16				
1	Applied Sciences & Humanities	FE	II	Structural Programming Approach [FEC205]
2	Mechanical Engineering	SE	III	Data Base & Information Retrieval System [MEL306]
3	Civil Engineering	SE	III	Data Base & Information Retrieval System [CE-C307]
Academic Year 2014-15				
1	Electronics & Telecommunication	SE	III	Object Oriented Programming Methodology [CSC302]
2	Applied Sciences & Humanities	FE	II	Structural Programming Approach[FEC205]
3	Mechanical	SE	III	Data Base & Information

	Engineering			Retrieval System [MEL306]
4	Civil Engineering	SE	III	Data Base & Information Retrieval System [CE-C307]
Academic Year 2013-14				
1	Applied Sciences & Humanities	FE	II	Structural Programming Approach[FEC205]
2	Electronics & Telecommunication	SE	III	Object Oriented Programming Methodology [CSC302]
3	Mechanical Engineering			Data Base & Information Retrieval System [MEL306]
4	Civil Engineering			Data Base & Information Retrieval System [CE-C307]

7. Courses in collaboration with other universities, industries, foreign institutions, etc.: Collaborated Institute/Industry Course Conducted / Contribution

Sr. No.	Organization	Course	Significance
Academic Year 2016-17			
1	Antarik	MVC	MVC stands for models, views, controllers; every field plays a different role in the integrated application. Their roles are given below : • Models: In this we define the business logic of the application. • Views: It provides the GUI interface that is used to display the records. • Controllers : In a MVC application,

			the controller plays the most important role; handling all of the requests
Academic Year 2015-16			
1	 ATS ATS Infotech Pvt. Ltd. ATS Microsoft Academy , Lajpat Nagar, New Delhi	“C#.Net with Cloud Computing”	A course was conducted for Students to bridge the gap between academic curricula & industry demands.
2	 Codeest Software Factory, Kothrud, Pune – 38.	“C++ Programming”	A course was conducted for Students as an exposure to advanced programming languages like java, .net & Android.
3	 Inbitech Solutions ,Udyamnagar, Kolhapur 416008	“Web Technologies”	Importance of web design & programming skills in career are addressed to Students.
4	 Maharashtra State Skill Development Society, Maharashtra State	“Computer Network Assistant”	Under Skills Development Program – To adopt practical knowledge for betterment of society conducted a certification course on various networking and hardware tools.
		“Computer Hardware”	
Academic Year 2014-15			
1	 ATS ATS Infotech Pvt. Ltd. ATS Microsoft Academy , Lajpat Naqar	“.Net Course”	A course was conducted for Computer & IT students to make them eligible to survive in Corporate World.

	New Delhi		
2	 Yash Systems, Karad Road, Chiplun-415605	“Networking”	A course was conducted for Computer students To provide hands-on experiences on advanced networking tools.
3	 Codeest Software Factory, Kothrud, Pune – 38.	“Website Development”	Importance of web design & programming skills in career are addressed to Students.
4	 Logicbits Bhosari,Pune – 411039.	“Android Programming”	In today’s era of smart-phones every individual is using Android phone so to grab this opportunity this course was conducted for Computer & IT students.
Academic Year 2013-14			
1	 ATS ATS Infotech Pvt. Ltd. ATS Microsoft Academy, Lajpat Nagar New Delhi	“.Net Course”	A course on .Net was conducted for Computer & IT students to make them eligible to survive in Corporate World.
2	 Codeest software factory, Kothrud, Pune – 38.	“C language”	As C language is core programming language which is a base for the advanced programming like java, .net & Android.

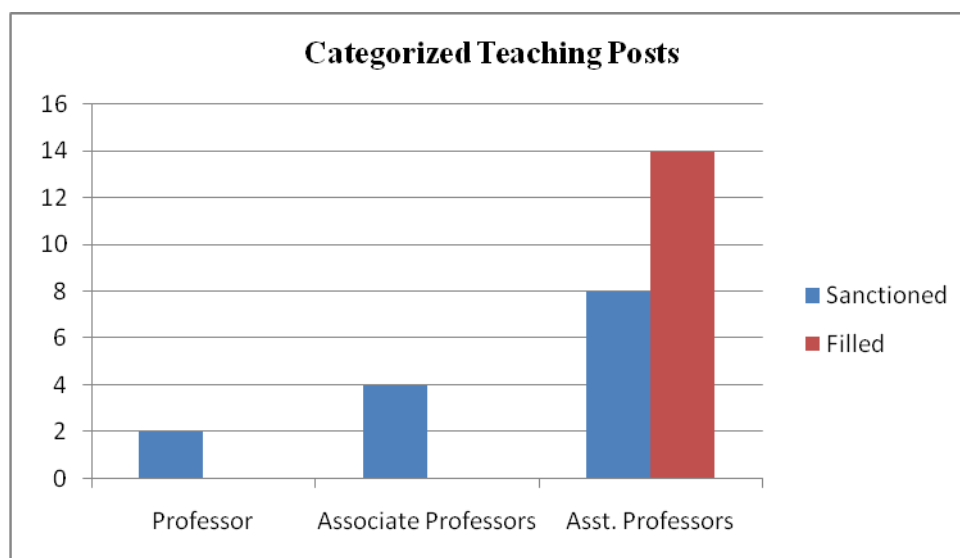
7. Details of Courses/Programmes discontinued (if any) with reasons:

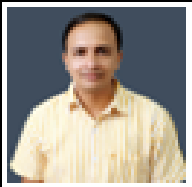
Sr.No.	Name of Course	Semester	Reasons
1	Presentation and Communication Techniques [3/06/2008]	III	Introduced with advanced topics in V th semester, named as Business Communication and Ethics [CPL502]
2	Analog & Digital Communication [4/02/2008]	IV	Included in Electronic Circuits and Communication Fundamentals [CSC306]
3	Theory of Computer Science[5/04/2008]	V	Similar course introduced in IV th Semester [CSC405]
4	Environmental Studies [5/06/2008]	V	Similar course introduced in I st Semester [FEC 106]
5	Advanced Computer Network [6/01/2008]	VI	Course is revised as per the requirements of IT industries in different courses like NPL & NTAL [CPL601]
6	Advanced Microprocessor [6/02/2008]	VI	Revised in new course - Microprocessor [CPC501]
7	Object Oriented Software Engineering [6/04/2008]	VI	Revised as Advances in Structured & Object Oriented Analysis & Design [CPC503]
8	Mobile Computing [7/03/2008]	VII	Revised as Advances in Mobile Communication & Computing [CPC604]
9	Project Management [7/05/2008]	VII	Same course is introduced as Elective course which is renamed as Software Project Management in VI th Semester [CPE6012]
10	System Security [7/01/2008]	VII	Revised as per the requirement of IT industries, which is renamed as Cryptography

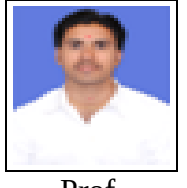
			& System Security [CPC702]
11	Distributed Computing [8/03/2008]	VIII	Introduced with advanced topic in VIII th semester named as Parallel & Distributed System [CPC803]
12	Multimedia System Design [8/02/2008]	VIII	As unable to fulfill Industrial needs.
13	Advanced Internet Technologies [8/01/2008]	VIII [Elective]	Due to Industry requisites elective course shifted as compulsory course in V th semester as Web Technologies and Laboratory [CPL501]
14	Computer Vision [8/02/2008]	VIII [Elective]	Machine Learning [CPE8031] course has been introduced with advancement of Computer Vision techniques.
15	Human Computer Interaction [8/04/2008]	VIII [Elective]	Due to Industry requisites same course is shifted to VIII th semester as Human Machine Interaction [CPE802]

9. Number of teaching posts:

Sr. No.	Designation	Sanctioned	Filled
1	Professor	2	0
2	Associate Professors	4	0
3	Asst. Professors	8	14

**10. Faculty Profile with Name, Qualification, Designation, Specialization****Regular faculty list:**

Sr. No.	Name & Photo	Qualification	Designation	Area Specialization	No of years of experience
1	 Prof. A.K. Mangore	M.Tech & PhD Pursuing	Asst. Professor & HOD	Database Management system, Distributed atabase, Software Project Management, ERP and supply chain Mgmt	6

2	 Prof. J.G.Borade	M.Tech.	Asst. Professor	Networking, Programming & Data Structure, Database, Discrete Mathematics	12
3	 Prof. M.A. Khandke	M.Tech.	Asst. Professor	Programming & data Structure, Grid Computing, Computer Graphics, Operating System	7
4	 Prof.D.N. Londhe	M.E.	Asst. Professor	Programming & Data Structure, Parallel Computing, Information Security, Automata Theory	8
5	 Prof. V.M.Nair	M.Tech.	Asst. Professor	System Security, Operating System, Distributed Computing	7
6	 Prof. R.B.Pawar	M.E.	Asst. Professor	Operating System, System Security, Open Source Technologies	7
7	 	M.Tech.	Asst. Professor	Programming & data Structure, Web	8

	Profs. K.M.Gajmal			Technology, Cloud Computing	

Temporary/ADHOC faculty list:

Sr. No.	Name	Qualification	Designation	Area Specialization	No of years of experience
1	 Prof. D.G.Modani	M.Tech.	Asst. Professor	Programming & Data Structure, Artificial Intelligence, Software Engineering, Operating System	7
2	 Prof. P.P.Patil	M.E.	Asst. Professor	Microprocessor, Operating System, Web Technology, Computer Graphics	6
3	 Prof. V.N.Rane	M.E	Asst. Professor	Computer Networking, Operating System	6
4	 Prof.A.A.Bhosale	M.E.	Asst. Professor	Database, Data Mining, Big Data Analytic, Software Testing, Software Project Management	7

5	 Prof. P.R. Kalokhe	M.E.	Asst. Professor	Open Source Technologies, Web mining, Data Mining	7
6	Prof. Bapat Kimaya	M.Tech.	Asst. Professor	Database System, Analysis of Algorithm	3
7	Prof. Chavan S. D.	M.E.	Asst. Professor	Cyber Security, Software Testing	0

11. List of senior visiting faculty: Nil**12. Percentage of lectures delivered and practical classes handled (programme wise) by Temporary faculty Contribution :**

Department of Computer Engineering	% of lectures delivered	% of practical classes handled
2016-17	48.88	55.17
2015-16	55.10	56.44
2014-15	75.40	80.67
2013-14	73.98	77.34

13. Student -Teacher Ratio: (Academic Year: 2016-17)

$$\begin{aligned}\text{Student -Teacher Ratio} &= 155:14 \\ &= 11.07\end{aligned}$$

14. Number of Academic Support Staff (Technical) and Administrative Staff; Sanctioned and Filled:

	Sanctioned	Filled
Academic Support Staff (technical)	5	5
Administrative Staff	NA(see note)	NA(see note)

Note: Total 22 number of administrative staff and 60 number of house keeping staff are available in the institute and are shared by all departments.

5. Qualifications of teaching faculty with DSc/ D.Litt / Ph.D/ MPhil / PG.:

Qualification	No. Of staff
Ph. D faculties	0
Ph. D pursuing faculty	1
PG faculty	13
UG faculty	0

16. Number of faculty with ongoing projects from funding agencies and grants received:

Four Research Proposals has been submitted to **DeitY** and **University of Mumbai** and awaiting for positive response.

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: NIL

18. Research centre /facility recognized by the university: Institute runs only UG program so facilities are available as per UG program.

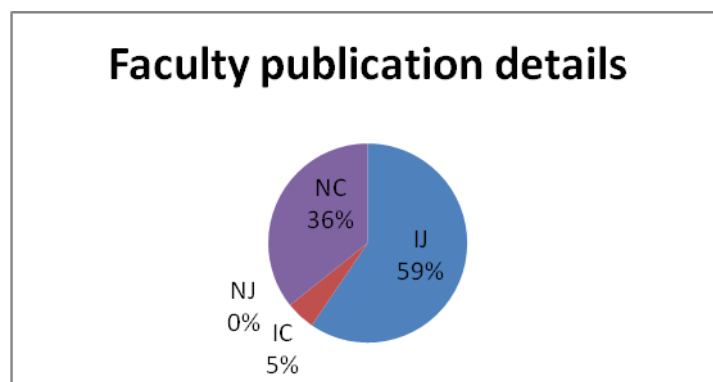
19. Publications:**a) Publication per faculty:**

- Number of papers published in peer reviewed journals (national /international) by faculties and students
 - Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc.)

Faculty publication details:

S . N .	Name of the faculty	2012-13				2013-14				2014-15				2015-16				2016-17		Total
		I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	I C	N C	
1	Prof. A.K. Mangore								2											2
2	Prof. J.G. Borade	1				1			1				2							5
3	Prof. M.A. Khandke	2				1				1										4
4	Prof. D.N. Londhe	1				1			1											3
5	Prof. V.M. Nair					1			1											2
6	Prof. R.B. Pawar								1	1			2						1	5
7	Prof. K.M. Gajmal									1				1						2
8	Prof. M.R. Balpande						1			1	1									3
9	Prof. D.G. Modani	1				2			1	1								1		6
1	Prof.									1			1							2

0	P.P. Patil																			
1 1	Prof. V. N. Rane							1	2										3	
1 2	Prof. A.A. Bhosale					2			1										3	
1 3	Prof. P.R. Kalokhe								1			2	1						4	
1 4	Prof. S.D. Chavan								1										1	
1 5	Prof. K.N. Bapat												1						1	
	Total	5				8	1		8	1	1		7	3				1	1	4 6



The above chart portrays various research contributions and its respective publications of the work.

Faculty publication with impact factor:

Note: Following impact factors are taken from website:
<https://www.globalimpactfactor.com>

Sr · N o.	Author/s	Name of Journal / Conference	Title of Paper	Academ ic Year	Impact factor
1	Prof. M.A. Khandke	Computer Science And Engineering	Revised Slide Window First Algorithm For Advanced Reservation In Optical Grid	2012-13	0.656
2	Prof. M.A. Khandke & Prof. A.K. Mangore	Computer Science And Engineering	Failure Recovery using RSWF algorithm for advance reservation in optical Grid	2012-13	0.656
3	Prof. J.G. Borade	Journal of Emerging Trends in Computing and Information Science	A Composite scheduling approach for burst loss minimization in OBS networks	2012-13	2.32
4	Prof. D. N. Londhe	International Journal of engineering Research and technology. (IJERT)	Location and authentication based encryption scheme application design for mobile device	2012-13	1.76
5	Prof. M.A. Khandke & Prof. R.B. Pawar	International Journal of Engineering Research & Technology (IJERT)	A comparative Study of Advanced Reservation Algorithms in Optical Grid	2012-13	1.76
6	Prof. J.G. Borade	Recent Advances in Engineering and Technology	Digital video watermarking	2013-14	1.568

7	Prof. M.A. Khandke & Prof. R.B. Pawar	International Journal Advanced Research In Computer Science And Software Engineering (IJARCSSE)	A Novel Deterministic Key Pre Distribution Schemes For Wireless Sensor Network	2013-14	2.5
8	Prof. J.G. Borade	International Journal of advanced research in computer science and software engineering (IJARCSSE)	Software project Effort and cost estimation techniques	2013-14	2.5
9	Prof. P.R. Kalokhe , Prof. K.M. Gajmal	International Journal of “Latest trends in Engineering”	Data warehouse Design using Process Oriented Requirement Analysis-Survey	2013-14	0.786
10	Prof. A.K. Mangore	National Journal ISTE Staff convention 2013	Implementation of a machine learning approach for identifying disease treatment relations in short texts.	2013-14	NA
11	Prof. A.K. Mangore	National Journal ISTE Staff convention 2013	Finding shortest path over multihop wireless networks.	2013-14	NA
12	Prof. V.N. Rane	National Conference ISTE convention 2013	Prediction of Collective behavior by scalable learning	2013-14	NA
13	Prof. V.M. Nair	International Journal of Application or Innovation in Engineering & Management	Visualization Based Sequential Pattern Text Mining	2013-14	2.37

		(IJAIEEM)			
14	Prof. D. N. Londhe	Research Advances In engineering and Technology	Accelerating antivirus software using GPU	2013-14	1.56
15	Prof. D. G. Modani	International Journal Of computer engineering and technology IJCET	Enhancing the web site structure to provide easy traversal on a web site with minimum chances to its current structure.	2013-14	0.654
16	Prof. D. G. Modani	International Journal Of engineering research and technology IJERT	A novel approach for updates in streaming data warehouses by scalable scheduling.	2013-14	0.454
17	Prof. D. G. Modani	International Journal Of innovations in engineering and Technology. IJiet	Rapid scalable scheduling for updates in streaming data warehouses.	2012-13	0.672
18	Prof. A.A. Bhosale	International Journal of “innovations in Engineering & Technology(IJiet)”	Deadlock Managing Process in P2P System	2013-14	0.672
19	Prof. A.A. Bhosale	International Journal of “Latest Trends in Engineering and Technology (IJLTET)”	Recovery of Concurrent Processes using Rules and Data Dependencies	2013-14	0.672
20	Prof. D.G. Modani	National Conference ISTE convention 2013	Minimize staleness and stretch in streaming data	2013-14	NA

			warehouses		
21	Prof. M.R. Balpande	Annual IEEE India Conference , INDICOM	Medical image fusion techniques for remote Surgery	2013-14	NA
22	Prof. R. B. Pawar	National Conference ISTE convention 2013	Survey On Real Time Moving Object Detection And Back Ground Detection For Intelligence Security Systems.	2013-14	NA
23	Prof. D.N. Londhe	Third Post Graduate Conference for Computer Engineer	Utilizing GPGPU power for LIC sketch generation using CUDA	2013-14	NA
24	Prof. P. P. Patil	Third Post Graduate Conference for Computer Engineer	Advanced Multimodality Image Fusion Technique Using DDWT And PSO	2013-14	NA
25	Prof. V.M. Nair	National Conference ISTE convention 2013	Visualization based sequential pattern text-mining	2013-14	NA
26	Prof. R.B. Pawar	International Journal of Science and Research (IJSR)	Improved Intelligence Surveillance System for Object Detection, Classification of Human Behavior using GMM and openCV	2014-15	0.765
27	Prof. M.A. Khandke & Prof.	International Journal Of Informative And Futuristic Research. (IJIFR)	Advanced Reservation In Optical Grid For Dynamic Resources	2014-15	0.546

	V.M. Nair				
28	Prof. M.R. Balpande	International Journal Of Advancement in Technology	Check-Pointing Based fault tolerant Job Scheduling System for Computational grid	2014-15	0.31
29	Prof. P.R. Kalokhe	International Journal Of Informative & Futuristic Research (IJIFR)	An Approach Towards Providing Privacy Protection For Personalized Web Search	2014-15	0.546
30	Prof. D. G. Modani	International Journal Of Computer Applications IJCA	Analysis of DAC MAC RBAC Access Control based modules for security	2014-15	0.675
31	Prof V.N Rane	International Journal Of Computer, Information Technology and bioinformatics(IJC ITB)	Survey on scalable Scheduling of Updates in Streaming Databases	2014-15	1.5
32	Prof V.N Rane	International Journal On Recent And Innovation Trends In Computing And Communication	Updating Streaming Data Warehouse by Scalable Scheduling Using Multi Track Algorithm	2014-15	0.564
33	Prof. M.R. Balpande	International Journal On Circuits, systems, communications and IT Application CSCITA	Robust fault tolerant job scheduling approach in grid environment.	2014-15	1.17

34	Prof. A.A. Bhosale	International Journal of Emerging Trends in Science and Technology	Web Based Security Using oPass System: A Survey	2014-15	0.345
35	Prof. (Ms.) J.G. Borade, Prof. V.N.Rane & Prof. D.A. Barhate	National Computer Networking, SKN Sinhgad institute of Technology and Sciences , Lonavala Pune	ZIP-IT UP SMS	2014-15	NA
36	Prof. (Ms.) J.G. Borade, Prof. V.N. Rane & Prof. D.A. Barhate	National Conference on “Advanced Computer Networking”, SKN Sinhgad institute of Technology and Sciences, Lonavala Pune	"E-Plant Identifier"	2014-15	NA
37	Prof. R. B. Pawar	National Conference on “Advance Computer Networking”, SKN Sinhgad institute of Technology and Sciences, Lonavala Pune	Survey-comparing Characteristics of MANET and VANET with routing protocol	2014-15	NA
38	Prof. P.R. Kalokhe	National Conference on Advanced Computer Networking (NCACN'15) SKN Sinhgad institute of Technology and Sciences ,Lonavala Pune	“Survey on Providing privacy protection for Personalized Web Search”	2014-15	NA

39	Prof. P.R. Kalokhe	cPGCON 2015 Organized by Board of Studied in Computer Engineering, Savitribai Phule Pune University	“Resist Adversaries in Personalized Web Search”	2014-15	NA
40	Prof. K.M. Gajmal	International Journal Of Reviews on recent Electronics and Computer Sciences (IJRRECS)	Execution of security requirements in cloud computing	2014-15	0.475
41	Prof. K.M. Gajmal, Prof. R.B. Pawar , Prof. P.R. Kalokhe , Prof. A.A. Bhosale	International Journal of Informative & Futuristic Research (IJIFR)	Design Virtual Classroom to Implement Real Time Interaction in Medical Science Using VRML & WIIMOTE	2015-16	0.546
42	Prof. P.R. Kalokhe	International Journal On Recent And Innovation Trends In Computing And Communication	Resist Adversary In Modified Net Explore	2015-16	0.564
43	Prof. S.D. Chavan	International Journal of Computer Trends & Technology	User oriented content based Image Retrieval using Interactive Genetic Algorithm	2014-15	
44	Prof. K.N. Bapat	International Journal on Recent Electronics & Computer Science	Identification of aution fraudlent in E-com web	2015-16	
45	Prof. R.B. Pawar	National Conference at G M Vedak College of Engineering, Tala, Raigad	Survey on influences on society and Digitization using Big data	2016-17	

46	Prof. D.G. Modani	International Conference Science Direct	Developing secure cloud storage for IOT data by apply in role based encryption	2016-17	

• **List of Scientific/ Technical Books Written By Faculty Members:**

Note: For Students benefit, Gharda institute of Technology has published following study materials in the form of bounded volumes for internal circulation to students.

Sr. No.	Author/s Name	Title of Volumes	Details
1	Prof.Mangore A K	Database Management System- A Practical Handbook	Useful to learn practical's of Database Management System.
2	Prof.Londhe D N	Theoretical Computer Science	Book provide knowledge about Automata, Regular Expression, Context Free Grammar, Push Down Automata & Turing Machine
3	Prof.Balpande M R	Analysis of Algorithms	Useful to learn the analysis of amount of resources required to execute the program on Computer
4	Prof.Londhe D N	System Programming & Compiler Construction	Book provide basic of System Programming & Compiler Construction
5	Prof.Modani D G, Profs.Rane V N	100 Programs in C language	Useful to learn the basic program of C language
6	Prof.Balpande M R, Prof. Patil P P, Prof. Barhate D A	Computer Graphics	Provide knowledge about pixel, line drawing algorithm, Polygon Clipping algorithms.
7	Prof. Borade J G	Database Management System	Book provide the basic of Database Management System
8	Prof. Kalokhe P R	Open source Technology	Book provide the information about Open

			source software's & Operating Systems
9	Prof.Patil P P	Microprocessor	Content of book provide the basic knowledge of Microprocessor
10	Prof. Kalokhe P R	Software Architecture	Give Information about the Architecture & model for Software
11	Prof. Bhosale A.A.	Software Project Management	Give details about the standard procedure for software project development
12	Prof.Nair V M	Network Programming Laboratory-A Practical Handbook	Provide the information about the basic of Network Commands
13	Ms.Bhosale A.A.	Big Data	Provide different techniques of handling & processing huge amount of data
14	Prof. Nair V M	Network Threats and Attacks Laboratory-A Practical Handbook	Handbook provide the information about different tools that are useful in detecting network threads & attacks
15	Prof. Bhosale A.A.	Advanced Database Management System	Useful to learn the advanced concepts of Database Management System
16	Prof. Bhosale A.A.	Software Engineering	Useful to learn the life cycle of software project development
17	Prof. Kalokhe P R	Web Technology	Useful to learn different web technologies

20. Areas of consultancy and income generated:

Sr. No.	Area of Consultancy and Revenue Generation	Organization	Income generated in Rs.
Academic Year 2015-16			
1	.Net course	ATS InfoTech, Lajpat Nagar, New Delhi	35,836.00
2	Phone Gap Technology Workshop	TechnoCrips Technologies, Delhi	5,100.00
Total			Rs. 40,936.00
Academic Year 2014-15			
1	.Net course	ATS InfoTech, Lajpat Nagar, New Delhi	22,000.00
Total			Rs.22,000.00
Academic Year 2013-14			
1	.Net course	ATS InfoTech, Lajpat Nagar, New Delhi	32,900.00
2	Website www.ghardaplastics.com	Gharda Chemicals, Mumbai	25,000.00
3	Web Application www.lpia.co.in	Lote Parshuram Industrial Association, Lote, Ratnagiri	25,000.00
4	Software maintenance	Gharda Chemicals, Lote, Ratnagiri	8,340.00
5	Website maintenance	Gharda Chemicals, Mumbai	6,224.00
6	Knowledge bank Application	Gharda Chemicals, Lote, Ratnagiri	54,000.00
8	Cyber Scene Investigation Workshop	InfySec, Chennai	10,483.00
Total			Rs. 161,947.00

21. Faculty as members in**a) National committees b) International committees c) Editorial boards****22. Student projects:**

a) Percentage of students who have done in-house projects including interdepartmental / Programme

Academic Year	In-house Projects (in %)
2016-17	47.37
2015-16	76.47
2014-15	82.35
2013-14	88.00

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies

Academic Year	Outside Projects (in %)
2016-17	52.63
2015-16	23.57
2014-15	17.65
2013-14	12.00

3. Awards / Recognitions received by faculty and students:

Year	Name of Faculty/Student	Awards/ Recognition	Activity	Name /Place of Event
2016-17	Prof. Pawar R. B.	Mentor	Cryptography & Systems Security	NPTEL ONLINE Certification Examination
	Prof. Rane V. N.	Mentor	Introduction to Modern Application Development	
	Vrishali Rajendra Kadam	Certification	Introduction to Cryptology	
	Tejasvi Prakash Sonawale	Certification		
	Pravin Kondu Mahale	Certification		
	Priyanka Rongu Tembe	Certification		
	Mrs. Kranti	Certification	Programming in	

	Mahesh Gajmal		C++	
	Shwetali Liladhar Khatu	Certification	Object-Oriented Analysis and Design	
	Shweta Milan Shaha	Certification	Object-Oriented Analysis and Design	
	Shweta Satish Sonawane	Certification	Programming in C++	
	Akshay Shivaji More	Certification	Introduction to Modern Application Development	
	Nikhil Umesh Kadam	Certification		
	Priyanka Prakash Pandere	Certification		
	Snehal Ganesh Kadam	Certification		
	Shweta Milan Shaha	Certification		
	Pragati Santosh Dhuri	Certification		
	Neelkanth Pandurang Jadhav	Certification		
	Sayali Rajkumar Bhosale	Certification		
2015-16	Sheetal Jaitapal	Runner-up	Project Exhibition	SHODH-2K15, GIT
	Pranali Mahadik	Runner-up	Project Exhibition	SHODH-2K15,GIT
	Sheetal Jaitapal	Certified Level-2	Web Technology	SHODH-2K15,GIT
	Nikita Tambe	Winner	Digital India Competition	GIT, Lavel
	Avinash Chavan	Winner	Assemble my PC	SHODH-2K15,GIT
	Kranti Mankar	Runner-up	Digital India Competition	GIT, Lavel
	Sneha Anjarlekar			
	Tejasvi Sonavane			
	Prashant Shinde	Winner	Quiz Competition	SHODH-2K15,GIT
	Subodh Sutar			
Rahul More	Runner-up	Web Design	SHODH-	

	Priyanka Shinde			2K15,GIT
	Amruta Kanekar			
	Vinay Pandit	Winner	Google IT	SHODH-2K15,GIT
	Vrishali Kadam	Winner	Tech. Treasure Hunt	SHODH-2K15,GIT
	Gayatri Narewadi	Winner		SHODH-2K15,GIT
	Sneha Mohite	Winner		SHODH-2K15,GIT
	Suraj Mohite	Runner-up	Jugad Technology	SHODH-2K15,GIT
	Vinay Pandit			
	Mukesh Panchal			
	Bhushan Rajput	Winner	Expert Programming	SHODH-2K15,GIT
	Priyanka Tembe			
	Sunil Rathod	Runner-up		
	Vrishali Kadam			
	Sheetal Jaitapal	Runner-up	Table Tennis (Doubles)	Annual Sports, GIT
	Sheetal Jaitapal	First Prize	Table Tennis (Singles)	Annual Sports, GIT
	Akshita Dasari	Runner-up	Carrom (Singles)	Annual Sports, GIT
	Nikita Kambare	Best Attacker	Kho-Kho	Annual Sports, GIT
	Nikita Kambare	Winner	Chess	Annual Sports, GIT
	Priyanka Mande	Winner	Kho-Kho	Annual Sports, GIT
	Pranali Patil	Winner	Kho-Kho	Annual Sports, GIT
	Punam Chavan	Winner	Kho-Kho	Annual Sports, GIT
	Pranali Patil	Winner	Relay	Annual Sports, GIT
2014-15	Suvidha Gundekar	Institute Rank:1 University Rank: 252 (76.00%)	University Exam BE	Mumbai University
	Rupali Chavan	Institute Rank:2 University	University Exam BE	Mumbai University

		Rank: 452 (74.53%)		
	Tejashree Gundeekar	Institute Rank:3 University Rank: 544 (74.06%)	University Exam BE	Mumbai University
	Manali Salavi	First Rank TE Computer	GIT Merit Scholarship	University Exam
	Vrishali Kadam	First Rank SE Computer	GIT Merit Scholarship	University Exam
	Vrishali Kadam	2 nd Runner-up	Quiz Competition	SHODH-2K14,GIT
	Vrishali Kadam	Winner	Google IT	SHODH-2K14,GIT
	Nikita Kambre	Best Batsman	Cricket	Annual Sports,GIT
	Nikita Kambre	Runner-up	Volley Ball	Annual Sports, GIT
	Manali Salavi	Runner-up	Volley Ball	Annual Sports, GIT
	Ashwini Shingankar	Runner-up	Carrom (Doubles)	Annual Sports, GIT
	Sneha Patil	Runner-up	Carrom (Doubles)	Annual Sports, GIT
	Priyanka Bane	Winner	Kho-Kho	Annual Sports, GIT
	Sneha Patil	Runner-up	Table Tennis(Doubles)	Annual Sports, GIT
	Pranali Patil	Winner	Kho-Kho	Annual Sports, GIT
	Punam chavan	Winner	Kho-Kho	Annual Sports, GIT
	Shurti Tambade	Winner	Box -Cricket	Annual Sports, GIT
	Punam Chavan	Winner	Box -Cricket	Annual Sports, GIT
	Shurti Tambade	Winner	Langadi	Annual Sports, GIT
2013-14	Prof. A.R.Chinchwade	Best Teacher Award	Feedback by students and performance	GIT, Lavel
	Lovedeep	Institute Rank:	University	Mumbai

	Kaberwal	1 University Rank: 26 (77.40%)	Exam BE	University
	Sachin Rahate	Institute Rank: 2 University Rank: 31 (77.26%)	University Exam BE	Mumbai University
	Aparna Ingale	Institute Rank: 3 University Rank: 118 (75.26%)	University Exam BE	Mumbai University
	Prathamesh More	Winner	Coder's War	SHODH-2K13,GIT
	Priyanka Mande	Winner	Kho-Kho	SHODH-2K13,GIT
	Priyanka Bane	Winner	Kho-Kho	SHODH-2K13,GIT
	Vrishali Kadam	Consolation Prize	Poster Presentation	SHODH-2K13,GIT
	Punam Chavan	Winner	Kho-Kho	SHODH-2K13,GIT

24. List of eminent academicians and scientists / visitors to the department:

Sr. No.	Name of the Person	Purpose of Visit	Significance
Academic Year 2016-17			
1	Dr. L. D. Netak, Associate Prof., Dr. BATU, Lonere	Guest Lecture on Internetworking using TCP/IP	1. Revision of basic concepts of Networking. 2. Tips & traps for Network Administrator
2	Prof. Deven Ketkar, Asst. Prof., FAMT, Ratnagiri.	Guest Lecture on Cloud Computing	1. Revision of cloud computing subject 2. Tips for scoring in Exam for BEIT students.
Academic Year 2015-16			
1	Dr. Deven Shah Principal,	Mentoring	Discussed various issues related to real

	Terna College of Engineering, Mumbai.		time implementation of cloud.
2	Dr. Shantanu Chakrabarty, Eminent Academician	Innovative Event Judge	Inspirational talk to boost the research activities.
3	Prof. Bane R. R., PhD pursuing, Associate Professor, SSPM, Kanakavali	System Security Current Issues	Discussed recent advances in information & System Security.
4	Dr. Pradeep Saxena, Principal, RSCOE, Pedhambe	Operating System Revolution	Reviewed the importance & scope of open source Operating Systems & Softwares.
Academic Year 2014-15			
1	Prof. D.P. Mapasekar, Associate Professor, SSPM, Kanakavali	Guest lecture & Mentoring on “Transaction & Concurrency Control”	Highlighted the impact of transaction & concurrency control in Database System.
2	Prof. P.S. Gamare Assistant Professor, RMCET, Devrukh	Guest Lecture on “Automata Theory: Turing Machine”	Highlighted the concept of Turing Machine.
Academic Year 2013-14			
1	Prof. S.V.Jadhav HOD IT, FAMT, Ratnagiri.	Guest lecture on “Advances of Digital Signal & Image Processing ”	Reviewed the application of image processing on advanced parallel computing devices.
2	Prof. Parag Abhyankar Assistant Professor, FAMT, Ratnagiri	Guest Lecture on “Computer Vision”	Signified the real life scenario of Machine oriented learning.

25. Seminars/ conferences/workshops organized & the source of funding
a) National b) International:

Seminar

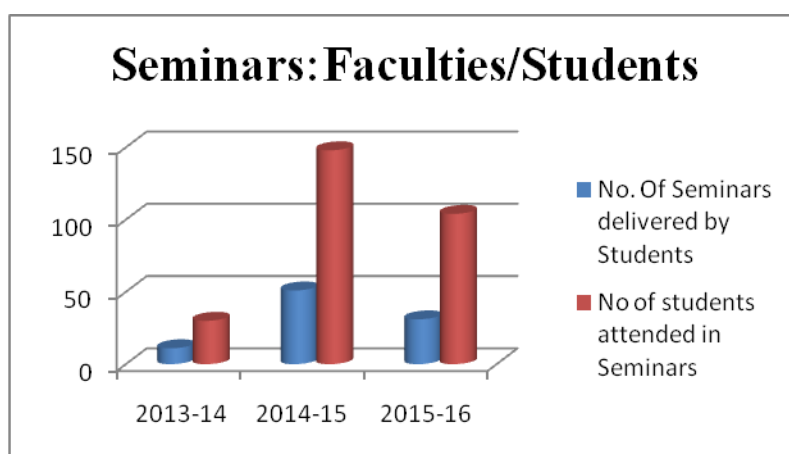
All the following seminars were conducted by faculty and Students for the improvement to know more about current and latest emerging topics in Computer and IT world. All the following seminars were funded by Gharda Institute of Technology.

Sr. No	Class	No. Of Seminars	No of students/faculties involved
Academic Year 2016-17			
1	TE(V-SEM)	11	35
2	BE(VII-SEM)	19	56
The Most Attracted Seminar of the Year : Augmented Reality: (AR) is a live direct or indirect view of a physical, real-world environment whose elements are augmented (or supplemented) by computer-generated sensory input such as sound, video, graphics or GPS data.			
Academic Year 2015-16			
1	TE(V-SEM)	13	52
2	TE(VI-SEM)	18	52
3	Faculty of Department	04	04
The Most Attracted Seminar of the Year : Blue Eyes Technologies The aim of the blue eyes technology was to give human power or abilities to a computer so that the machine can naturally interact with human beings as we do.			
Academic Year 2014-15			
1	BE(VII-SEM)	17	49
2	TE(VI-SEM)	19	58
3	SE(IV-SEM)	15	41
4	Faculty of Department	03	03
The Most Attracted Seminar of the Year : Web OS Web OS, also known as Open WebOS or LG WebOS, is a Linux kernel-based multitask operating system for smart devices like TVs and smart watches. It was formerly a mobile operating system.			

Academic Year 2013-14			
1	TE (VI-SEM)	11	30
2	Faculty of Department	04	04

The Most Attracted Seminar of the Year : Eye Tribe

The **Eye Tribe** is a Danish startup company that produces eye tracking technology to incorporate the eye tracking device into their applications and programs. The **Eye Tribe's** software allows a user to direct a smart phone, tablet, or computer with just the look of an eye.



Sr. No.	Conferences / Workshops Organized	Objectives of Session	Source of Funding
Academic Year 2016-17			
1	Cloud Computing	Many businesses either large or small use cloud computing today directly (e.g. Google or Amazon) or indirectly (e.g. Twitter) instead of traditional on-site alternatives. There are a number of reasons why cloud computing is so widely used among businesses today. - Reduction of costs - Universal access - Up to date software - Choice of applications - Potential to be greener and more economical - Flexibility	Self & ATS Microsoft Academy
Academic Year 2015-16			

1	Advance Computer Skills	1) Beneficial for the faculties where resource persons are in-house faculties. 2) Covered Hardware and Networking 3) Advanced Java 4) Mat lab Programming 5) Web Technology with PHP 6) Phone Gap Technology	Self
2	Android Application Development	1) Learning the skills and Technology which satisfy current needs in Corporate Industry. 2) To implement Android Programs with Java and Eclipse. 3) Real time application on android with database Connectivity with MySQL.	Self
3	Phone Gap and Hybrid Application Development and Cross Linking Platform	1) Develop own application compatible for Android and Windows. 2) Learn to work on Cross Linking Platform. 3) Write attractive GUI Applications and Games. 4) Use built-in Widget and Components 5) Retrieve data from database.	Self
Academic Year 2014-15			
1	Computer Programming	1) Design for the Teaching Staff of Computer, IT and EXTC. 2) Learning basic programming concepts in depth which helps to teach students. 3) Learning advanced concepts like Software Engineering, File Processing, Handling Graphics in C Language 4) Learning Object Oriented Concepts.	IIT Bombay & MHRD
2	Cyber Security	1) Understanding interesting and research oriented concepts like Key Management in Network	IIT Bombay & MHRD

		Security. 2) To study Software Security, Web Security, Browser Security, this is the need of Current Era 3) Learning Authentication Protocols, Access Controls and Firewalls.	
3	Introduction to Design of Algorithms	5) Design for the Teaching Staff of Computer, IT and EXTC. 6) To study Divide and Conquer, Greedy, and Dynamic Programming Techniques 7) To learn Backtracking and Branch and Bound Techniques 8) To understand the concept of NP-Completeness	IIT Kharagpur & MHRD
Academic Year 2013-14			
1	Database Management System	1) Design for the Teaching Staff of Computer, IT and EXTC. 2) To study Relational Models, Normalization and Transactions. 3) Learning the ER Designs. 4) Understanding Big Data and parallel processing. 5) Mastering the techniques of Query Optimization and Information Retrievals.	IIT Bombay & MHRD
2	Cyber Scene Investigation	1) Basic knowledge of Cyber Crime. 2) Study of Different Tools for investigating Cyber Crime. 3) Learn the techniques of Ethical Hacking.	self

A Snapshot during Phone Gap and Hybrid Application Development with trainer Mr. Gaurav Agrawal.



Students participating attentively in Cyber Scenes Investigation Workshop



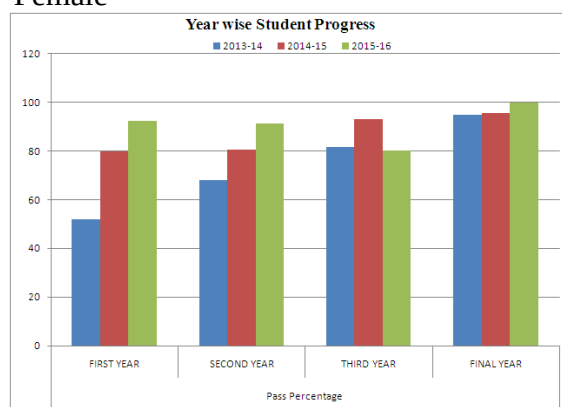
Student Participants in “Android Application Development” while receiving Certificate from CEO of LogicBits, Pune



26. Student profile programme / course wise:

Academic Year	Applications received	Selected	Enrolled		Pass Percentage
			*M	#F	
2016-17	FE=	FE=40	31	9	
	SE=	SE=28	13	15	
	TE=	TE=31	16	15	
	BE=	BE=56	31	25	
	Total=	Total=155	90	64	
2015-16	FE=26	FE=21	12	9	92.30
	SE=23	SE=23	11	12	91.30
	TE=51	TE=51	27	24	80.39
	BE=48	BE=48	20	28	100
	Total=148	Total=143			Average=91.01
2014-15	FE=12	FE=10	4	6	80.00
	SE=41	SE=41	17	24	80.49
	TE=57	TE=57	26	31	92.98
	BE=47	BE=47	28	19	95.74
	Total=155	Total=153			Average=87.30
2013-14	FE=30	FE=25	11	14	52.00
	SE=78	SE=78	40	38	67.95
	TE=38	TE=38	22	16	81.58
	BE=73	BE=73	43	30	95.00
	Total=219	Total=214			Average=74.13

* M = Male #F = Female



The above graph signifies a proportional growth in students pass ratio with respective to all academic years from First Year to Final Year.

27. Diversity of students:

Academic Year	% of students from the same state	% of students from other states	% of students from abroad
2016-17	97.56	2.44	0
2015-16	94.73	5.27	0
2014-15	100	0	0
2013-14	100	0	0

Note : Institute population of students is leading by local area.

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Our students prepare for various competitive examinations. Few students attempted GATE. However Computer engineering department strives to improve qualified score in competitive examinations.

29. Student progression:

Students Progression		% Against enrolled				
		Academic Year				
		2016-17	2015-16	2014-15	2013-14	2012-13
UG to PG		-	-	4.25	5.48	1.61
Employed	1) Campus selection	85.29	9.09	-	-	-
	2) Other than campus recruitment	-	4.16	21.27	8.21	4.6
Entrepreneurship/Self-employment		-	-	-	1.37	-

30. Details of infrastructural facilities:**a) Departmental library:**

1. Area of the library (in Sq. Mts.): 25 Sq meters
2. Library holdings:

Library Holdings	No. of Titles	No. of Volumes
Books	252	256
Journals/periodicals	8(Available with Central	8(Available with Central
Newspapers	13(Available with	13(Available with
E-resources	IEEE - 55	55
	Science Direct - 45	45
Project reports	57	57
Seminar reports	30	30
Any other(specify)-E-	1	NA

b) Internet facilities for staff & students:

- ISP – BSNL & Deep Network
- Leased line 30 Mbps & 4 Mbps
- Compression ratio: **1:1**
- Wi-Fi facility: Yes
- Firewall: Cyberoam



Gharda Institute of technology provides Internet facility to staff and students through 30MBPS leased line and 4 MBPS. Also WI-FI facility is provided to whole campus through WI-FI routers which are placed at the distant places in our campus. For network security, firewall is used. Cyberoam firewall delivers unified security over a single console; it enables to shift from plain firewalls to comprehensive UTM protection with cost-effective, yet powerful security against malware, spam, Trojans, DoS, DDoS, phishing and intrusions.

c) Class rooms with ICT facility:

Sr. No.	Room Description	Usage	Size in (Sq. meter)	Capacity	Rooms Equipped with
1	BE Classroom	Multimedia Classroom	98.00	60	- Fixed LCD Projector - Computer System - Folding White Screen, - Internet facility - Green Board - Sound System - CCTV
2	TE Classroom	Classroom	98.00	60	- Fixed Projector, - Smart Board - Green Board - CCTV,
3	SE Classroom	Classroom	98.00	60	- Movable Projector - Folding White Screen - Green Board - CCTV, Movable OHP

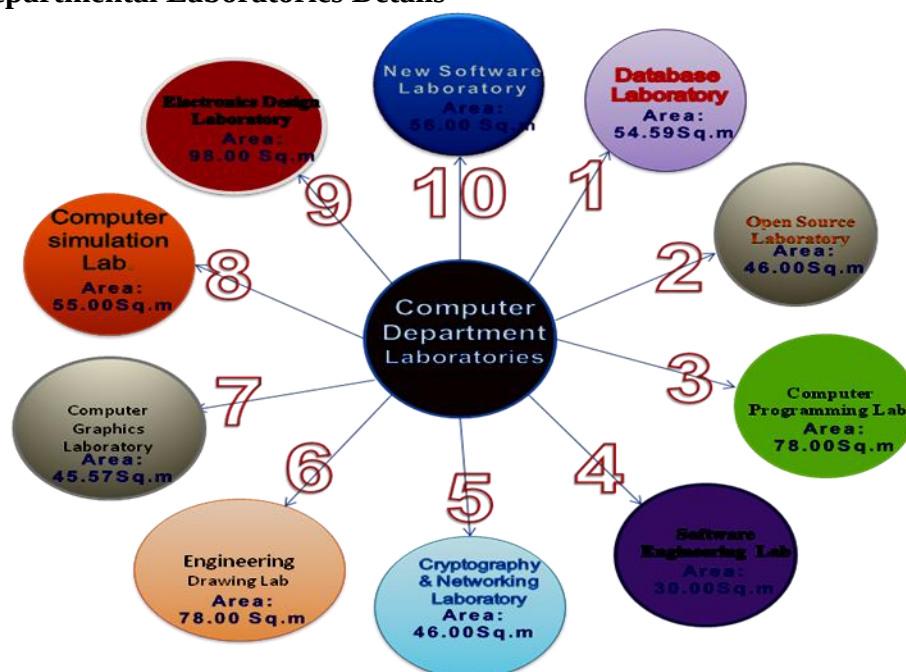
Teaching and learning process is done in digital environment with the help of PPTs, Audio/Video lectures with the help of digital appliances like LCD Projectors, Computer System, Folding White Screen, Internet through Wired & Wi-Fi, Green Board, Sound System, CCTV, OHP.

c) Laboratories:

Lab No	Curriculum Lab Description	Use Exclusive/ Shared	Location	Lab In-charge	Investment
1	Cryptography & Networking Laboratory	Exclusive	C1-08A	Prof. P. P. Patil	12,53,347.20
2	Open Source Laboratory	Exclusive	C1-08B	Prof. D. N. Londhe	5,94,521.03
3	Database Laboratory	Exclusive	C2-06	Prof. D.G. Modani	8,16,397.5
4	Software	Exclusive	C1-05	Prof.	5,15,074.3

	Engineering Laboratory			V.N.Rane	
5	Computer Programming Lab	Exclusive	A-0-02	Prof. A.K. Mangore	7,58,089.10
6	Cyber Security Lab	Exclusive	A-0-02	Prof. A.K. Mangore	12,53,347.2
7	Computer Graphics Lab	Exclusive	C2-13-B	Prof. M.A.Khandke	10,39,931.54
8	Computer Simulation lab.	Exclusive	C-02-14	Prof. P.R.Kalokhe	4,40,429.41
9	Electronics Design Laboratory.	Shared	C2-10	Prof. S.N. Pandharkame	889,410.12
10	New Software Lab.	Shared	C2-20	Prof P.V.Oak	592,943.90

Departmental Laboratories Details



Departmental Laboratory Infrastructure



Lab No	Curriculum Lab Description	Use Exclusive/ Shared	Location	Lab In-charge	Investment
1	Cryptography & Networking Laboratory	Exclusive	C1-08A	Prof. P. P. Patil	486517.00
2	Open Source Laboratory	Exclusive	C1-08B	Prof. D. N. Londhe	472498.00
3	Database Laboratory	Exclusive	C2-06	Prof. D.G. Modani	6,98,663.00
4	Software Engineering Laboratory	Exclusive	C1-05	Prof. V.N.Rane	425844.00
5	Computer Programming Lab	Exclusive	A-0-02	Pro.S.D.Chavan	567191.00
6	Cyber Security Lab	Exclusive	A-0-02	Prof. R.B. Pawar	1114465.00
7	Computer Graphics Lab	Exclusive	C2-13-B	Prof. M.A. Khandke	10,39,931.54/-
8	Computer Simulation lab.	Exclusive	C-02-14	Prof. A.A. Bhosale	4,40,429.41/-

9	Electronics Design Laboratory.	Shared	C2-10	Prof. S.N. Pandharkame	889410.12
10	New Software Lab.	Shared	C2-20	Prof P.V.Oak	592943.90

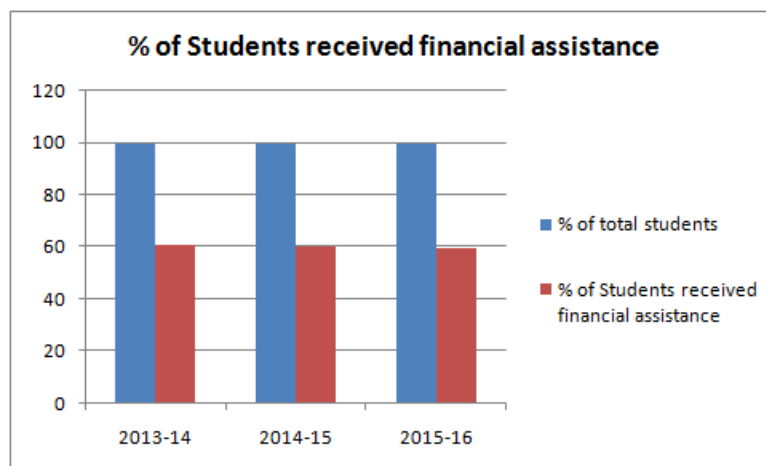
Software Details

Sr . No.	Software Name	No. of License	Significance
1	Microsoft Windows Xp	155	Windows base license
2	Linux Es 4.0	1	Linux practical server
3	Linux Desktop 4.0	20	Linux practical clients
4	Ms Visual Studio Prof 2010	40	Front end software for project
5	Autocad 2008	20	Drawing Practical 1st Year
6	Autocad 2008	1	Drawing Practical 1st Year
7	Borland Turbo C++	20	To learn basic and advanced
8	IBM Rational Rose	15	Project documentation.
9	SQL Server Std 2008r2 Sngl	1	Handling Database Practical's
10	SQL Cal 2008 R2 Sngl Olp Nl	40	Handling Database Practical's
11	Quick Heal	19	Antivirus for clients
12	Microsoft Office Std 2010	10	Office work for staff
13	Oracle 9i	20	Handling Database Practical's
14	Flash Pro CSS 11.0	20	Design software

31. Number of students receiving financial assistance from college, university, government or other agencies:

Academic Year	Type of financial assistance	Financial assistance from (Agency/college)	No. Of students benefited
2016-17	Scholarship & Free-ship	State Government	
	EBC	State Government	20
	Merit Scholarship	Gharda Institute of Technology	03
	TFWS	Gharda Institute of Technology	13
	Minority	State Government	10

	Scholarship		
2015-16	Scholarship & Free-ship	State Government	65
	EBC	State Government	12
	Merit Scholarship	Gharda Institute of Technology	3
	TFWS	Gharda Institute of Technology	2
	Minority Scholarship	State Government	3
2014-15	Scholarship & Free-ship	State Government	69
	EBC	State Government	15
	Merit Scholarship	Gharda Institute of Technology	3
	TFWS	Gharda Institute of Technology	2
	Minority Scholarship	State Government	3
2013-14	Scholarship & Free-ship	State Government	96
	EBC	State Government	22
	GIT Merit Scholarship	Gharda Institute of Technology	6
	TFWS	Gharda Institute of Technology	2
	Minority Scholarship	State Government	3
	Dr. P.S. Ramanathan Endowment	DR.Prasad Ramanathan	1



The above graph underlays the ratio of students in availing scholarship in massive crowd.

- **Scholarship & free ship:** Given to those Students who belong to Backward class such as (OBC,ST/SC,VJNT etc & Annual income less than 5 lakhs) sponsored by State Government.
- **EBC:** Amount of 50% of total fees given to those Students who are Economically Backward (Annual income less than 5 lakhs) that is sponsored by State Government.
- **GIT Merit scholarship:** RS.12000/- , 10000/- & 8000/- for first 3 students by Merit in each year and discipline through institute.
- **TFWS Scholarship:** Amount of Tuition fees given to students for first 3 students by Merit in XII or diploma (if applicable), scholarship is given as concession in Tuition fees which is sponsored by institute.
- **Minority Scholarship:** offered by State Government, to those students who belongs to minority categories such as (Sikh, Christian, Muslims etc with annual income less than 5 lakhs).
- **Dr.P.S.Ramanathan Endowment:** An amount of RS.10000/- offered by Dr. Prasad Ramanathan in memory of his late father Dr.P.S.Ramanathan.to be given to needy & scholar students whose income is below 5 lakhs per year.

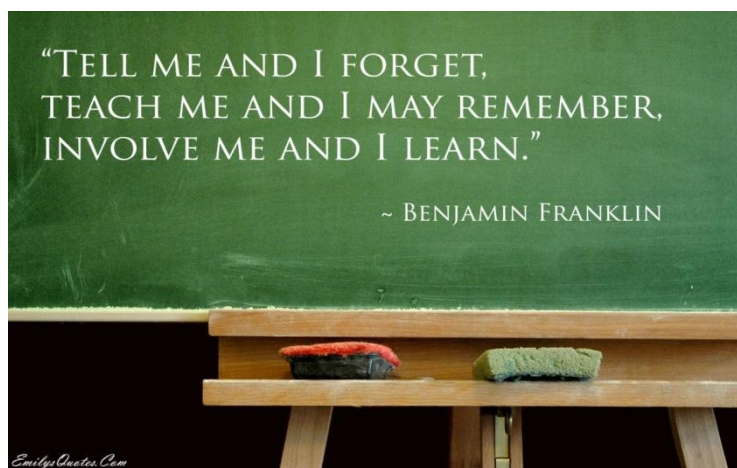
32. Details on student enrichment programs (special lectures / workshops / seminar) with external experts:

Academic Year: 2016-17					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration (in hours)	Target Students
1	Delivered Seminar on “Software Testing”	Manish Zha, SQuAD Infotech, Mumbai	18/10/2016	2 hr	60
Academic Year: 2015-16					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration (in hours)	Target Students
1	Career Guidance	Mr. Anurag Das	03/03/2016	4	48
2	Expert Talk on Higher Studies and Entrepreneurship	Mr.Nilesh Sarawate - CEO IEIBS AKADEMIA.	03/03/2016	8	48
3			& 30/03/2016		48
4	Soft Skills Training in Effective Communications and Body Language	Mrs. Anuradha Sonawane.	SEP 11-12 & OCT 03, 2015	6	48
5	Soft Skills Training in Email and Telephone Etiquettes				48
6	Soft Skills Training in Business and Interview Etiquettes				48
7	Android Application Development	Mr. Pravin Bhise, LogicBits, Pune	11-15 Jan, 2015	40	50

8	Phone Gap and Hybrid Application Development and Cross Linking Platform	Mr. Gaurav Aggarwal	3-4 Sept, 2015	16	51
9	.Net Technology	ATS Microsoft Academy	29 Feb-7 March, 2015	40	50
10	Cloud Computing	Dr. Deven Shah, Principal, Terna College of Engineering, Mumbai	12 Sept, 2015	6	90
Academic Year: 2014-15					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration (in hours)	Target Students
1	Corporate Meet	GCL Industrialists - Mr. Ajit	Jan 27, 2015	2	47
2	Expert Talk on Higher Studies and Entrepreneurship	Mr. Nilesh Sarawate	Feb 27, Mar 03 & April 18, 2015	6	47
3					47
4					47
Academic Year: 2013-14					
Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration (in hours)	Target Students
1	CDAC Informatory Seminar	MIT Representatives	12/09/2013	2	73
2	Opportunities in Defense for Engineers	Mr. Athul Kulkarni	23/09/2013	2	73
3	Training for Success _1	Prof Devendra Pandey	11/01/2014	2	73
4	Training for	Prof Devendra	03/02/2014	2	73

	Success _2	Pandey			
5	Business Quiz	ITM- Mr. T.Yogesh	17/02/2014	2	73
6	Cyber scene Investigation	Infysec Pvt.Ltd.	23/08/2013 to 24/08/2013	2	115
7	.Net Technology	ATS Microsoft Academy	25/05/ 2013 to 05/06/2013 (12 Days) 21/08/ 2013 to 03/09/2013 (14Days) 19/09/2013 to 12/10/2013 (24Days)	50	23

33. Teaching methods adopted to improve student learning:



Student centric learning is the motto of the program. Apart from traditional teaching methods, modern techniques are adopted for improving student learning as listed below:

Brainstorming

Brainstorming is a technique used to generate large number of ideas.

Objectives of Brainstorming

- To generate large number of creative ideas
- To introduce innovation in application
- To encourage self learning

- **Case Study Method**

Case Study is an open-ended actual story. It brings chunks of reality into the classroom.

Objective of Case Study Method

- To offer a less instructive approach to teaching
- To stress on the development of learners' communication and higher order thinking Skills

- **Demonstration**

Demonstration is a method of explaining a concept with the help of illustrations and ensuring active participation of learners.

Objective of Demonstration as a Teaching Technique

- To explain each and every step systematically with illustration, examples, comparisons
- To provide opportunities for questioning and cross-questioning, and help learners draw inferences

- **Group Discussion**

Group discussion is a technique used in the teaching- learning process. It is a formal discussion or verbal exchange of ideas and opinions on a specific subject with a group consisting of 5 to 8 members.

Objectives of Group Discussion

- To address a particular problem or an issue.

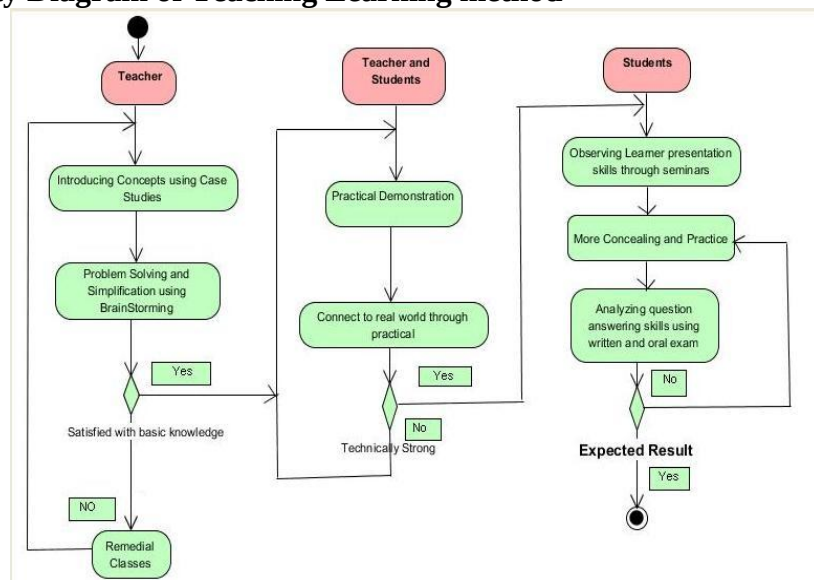
Environment for Teaching -Learning

- Before the commencement of semester, the faculties are required to be recruited and requirement of instruments/software/equipment for laboratory should be fulfilled.
- We provide an academic calendar before the commencement of semester to all departmental staff and students.
- Load distribution for the next semester is done at the end of every current semester. HOD assigns the responsibilities to the faculties for the activities to be conducted throughout the semester.

- The teaching plan gets prepared by every subject teacher prior to the starting of the semester which includes lecture number, topics planned date, topics covered date etc. This gets approved and monitored periodically by the HODs.
- The subject teachers are asked to prepare/update course file which contains academic Calendar, syllabus, teaching plan, subject notes, PPT's, question bank on each unit and university question papers with model solution etc.
- Weekly meeting of faculties is conducted by HOD to discuss the problems if any and to take updates of the conduction of academics.
- During semester various co-curricular, extracurricular activities are conducted along with regular curriculum.
- Following various activities are conducted,
 - Laboratory Session. Department has necessary advanced software to cope up with new technologies.
 - Demo & Case Studies.
 - Seminars and Group Discussion conducted to provide platform to student to show their talent and increase confidence level of the students.
 - Industrial visits are organized to provide much needed industrial exposure
 - Students are encouraged to attend various technical Seminars/workshops in order to get acquainted with emerging fields in Computer engineering.
 - Department has signed MOU with various industries and organizations to give exposure to student for updating developments in the technologies.
 - Students are encouraged to join Industry internship in vacation. Institute invites eminent persons from industries to deliver lectures on the latest technology.
 - NPTEL lectures are made available.
 - The entire campus is Wi-Fi enabled.
 - The WhatsApp group for every division is formed and faculty uploads assignments, notices of extra lectures etc.
- The continuous evaluation of students is done by university examinations as well as internal examinations and continuous assessments carried out at institute level. Institute conducts 1st unit test based on 40% syllabus and 2nd unit test based on remaining syllabus per semester. Test performance of all the students is conveyed to their parents by class teacher through telephonic calls/ SMS. University theory and practical examination is conducted at the End Semester.
- As a part of continuous evaluation process the distribution of the term work marks given to every student is based on overall

attendance, punctuality, understanding and knowledge. A sheet containing progressive practical internal assessment record is maintained by the faculties for proper evaluation of term work.

Activity Diagram of Teaching Learning method



34. Participation in institutional social responsibility (ISR) and extension activities:

Sr. No.	Activity	Academic Year	No. Of students involved
1	Tree plantation	2016-17	8
2	Swachhata Rally		
3	Blood donation		
4	Mandir swachhata		
5	Plastic free GIT		
6	Vachan prerana divas in library		
7	Hostel swachhata abhiyan		
8	Bus stop swachhata		
1	NSS	2015-16	17
2	Blood donation		17
3	Tree Plantation		17
4	Swachata Abhiyan		17
5	Art of Living		Open to All
6	Yoga Day		Open to All

7	Shiv Jayanti Celebration		Open to All
8	Dr. Ambedkar Jayanti Celebration		Open to All
9	Friendship-Day Celebration		Open to All
10	Various Days: Sari Day, Traditional Day, Tie Day, Mix-Match Day Celebration		Open to All
1	NSS	2014-15	10
2	Blood donation		10
3	Tree Plantation		10
4	Swachata Abhiyan		10
5	Art of Living		Open to All
6	Yoga Day		Open to All
7	Shiv Jayanti Celebration		Open to All
8	Dr. Ambedkar Jayanti Celebration		Open to All
9	Friendship-Day Celebration		Open to All
10	Various Days: Sari Day, Traditional Day, Tie Day, Mix-Match Day Celebration		Open to All
1	NSS	2013-14	2
2	Blood donation		2
3	Tree Plantation		2
4	Swachata Abhiyan		2
5	Art of Living		Open to All
6	Yoga Day		Open to All
7	Shiv Jayanti Celebration		Open to All
8	Dr. Ambedkar Jayanti Celebration		Open to All
9	Friendship-Day Celebration		Open to All
10	Various Days: Sari Day, Traditional Day, Tie Day, Mix-Match Day Celebration		Open to All

35. SWOC analysis of the department and future plans:

Strengths: ❑ A unique mix of experienced and young enthusiastic human resource. ❑ Implementing outcome based teaching-learning process. ❑ Excellent team working culture in the department. ❑ Specialized unique program offering for specific skill development which enhances employability. ❑ Converting low meritorious students in to meritorious students.	Weaknesses: ❑ Scarcity of qualified professors in the department. ❑ Lacking in Intellectual Property rights. ❑ Limited IT industrial expert's interaction with students due to location of college in rural area.
Opportunities: ❑ Scope for providing technical education to students of rural area for betterment of society. ❑ Global demand for computer engineer is ever growing. ❑ New technologies are emerging and IT Manpower requirement in rural area is rapidly growing and institute can cash on this gap.	Challenges: ❑ Fetching reputed IT industries for campus placements. ❑ Fluctuation in admission to the CSE stream. ❑ Lack of academic autonomy especially in the curriculum and syllabus due to university affiliated status of the institute.

Future Plans:

- Planning to apply for major/minor research projects to research and government agencies like DRDO, DST, and AICTE.
- To offer consultancy services.
- To enhance R&D activities.

**We are Ubiquitous in Delivering Unique Engineers
To and For the Society.**

Evaluation Reports of the Department**Department of Electronics and Telecommunication****1. Name of the department: Electronics and Telecommunication****2. Year of establishment: 2009.****3. Names of programmes / courses offered:**

Sr. No.	Programme of Study	Description
	UG in Electronics and Telecommunication Engineering	60 seats from 2009

4. Names of interdisciplinary courses and the departments/units involved:

* Applied Science & Humanities (First Year Engineering) Department shares full load of Applied Mathematics Subjects of the branch.

* Computer Engineering staff teach & support EXTC students for programming related subjects and build up confidence about logical reasoning and updated in IT knowledge .

Sr. No.	Department	Academic Year	Year (FE/SE/TE/BE)	Semester	Subject	Course Code
1	Applied Sciences & Humanities (First Year Engineering)	2013-14 & 2014-15 & 2015-16 & 2016-17	FE	I	Applied Mathematics-I	FEC 101
			FE	I	Applied Physics-I	FEC 102
			FE	I	Applied Chemistry –I	FEC 103
			FE	I	Engineering Mechanics	FEC 104
			FE	I	Basic Electrical Engineering	FEC 105
			FE	I	Environmental Studies	FEC 106
			FE	I	Basic Workshop Practice 1	FEL 201
			FE	II	Applied Mathematics-II	FEC 201
			FE	II	Applied Physics-II	FEC 202

			FE	II	Applied Chemistry -II	FEC 203
			FE	II	Engineering Drawing	FEC 204
			FE	II	Communication Skills	FEC 206
			SE	III	Applied Mathematics-III	ETS-301
			SE	IV	Applied Mathematics IV	ETS-401
			TE	V	Business Communication Ethics	ETS-506
2	Computer Engineering	2013-14 & 2014-15	SE	III	Object Oriented Programming Methodology	ETS-306 & ETS-304
			SE	VI	Operating System	ETS-605

5. Annual/ semester/choice based credit system (programme wise):

Sr. No.	Programme of Study	Type of System
1	UG in Electronics and Telecommunication Engineering	Semester from 2009 to 2012
2	UG in Electronics and Telecommunication Engineering	Semester (CBGS) from 2012 to 2016
3	UG in Electronics and Telecommunication Engineering	Semester (CBCGS) from 2016 to till date.

* From 2009 to 2012, the evaluation system was Percentage based.

* From 2012 onwards, the evaluation system is CGPA.

6. Participation of the department in the courses offered by other departments:

* Department of E&TC shares some of the core subjects with different branches like Computer Engineering, Information Technology Engineering, Applied Science & Humanities (First Year Engineering) and Mechanical Engineering.

* These subjects are mainly focused on interdisciplinary knowledge required for every Engineer.

Sr. No .	Department	Academic Year	Year (FE/SE/TE/BE)	Semester	Subject	Course Code
1	Applied Science and Humanities (First Year Engineering)	16-17	FE	I	Basic Electrical Engineering	FEC-105
2	Computer Engineering	16-17	SE	III	Electronic Circuits and Communication Fundamentals	CSC-306
		16-17	SE	IV	Computer Organization and Architecture	CSC-403
		16-17	TE	VI	Mobile Communication and Computing	CPC-604
3	Mechanical Engineering	16-17	SE	IV	Industrial Electronics	MEC-406
		16-17	TE	VI	Mechatronics	MEC-605
4	Applied Science and Humanities (First Year Engineering)	2013-14 & 2014-15 & 2015-16	FE	I	Basic Electrical Engineering	FEC-105
5	Computer Engineering	2013-14 & 2014-15	SE	III	Electronic Circuits and Communication Fundamentals	CSC-306
		2013-14	SE	III	Digital Logic Design & Applications	CSC-304
		2013-14 & 2014-15 & 2015-16	SE	IV	Computer Organization and Architecture	CSC-403
		2013-14	BE (Old)	VII	Digital Signal and Image Processing	NA
6	Mechanical	2013-14	SE	IV	Industrial	MEC-

	Engineering	& 2014-15 & 2015-16			Electronics	406
		2013-14 & 2014-15	TE	VI	Mechatronics	NA
7	Information Technology Engineering	2013-14 & 2014-15	SE	III	Principles of Analog and Digital Communication	NA
			SE	III	Electronic Devices and Circuits	NA
		2014-15	TE	V	Microprocessor and Embedded System	ITC-503
		2013-14	BE	VII (Old)	Digital Signal and Image Processing	NA

7. Courses in collaboration with other universities, industries, foreign institutions, etc.: Collaborated Institute/Industry Course Conducted/Contribution

Skills and knowledge are the motivating forces of the financial growth and community development. They have become even more important for increasing the pace of globalization and technological changes. Skill building can be viewed as a device to improve the effectiveness. Skill building could also be seen as an instrument to empower the individual and improve their social acceptance. To support the employment creation, economic growth and social development process, EXTC department has started organizing courses in association with Pramod Mahajan Kaushalya Vikas Udhyojakta Abhiyaan (PMKVA), Yashaswi Institute of Technology (YIT) & National Program on Technology Enhanced Learning (NPTEL) and ACIT, Mahim.

Sr. No.	Organization	Course
1	Maharashtra State Skill Development Society's Pramod Mahajan Kaushalya Vikas Udhyojakta Abhiyaan (PMKVA)	Computer Network Assistant
		Electrician Domestic
		Repair and Maintenance of Electronic Appliances
2	Yashaswi Institute of Technology(YIT)	Electrical & Electronics Engg

3	National Program on Technology Enhanced Learning (NPTEL)	Electromagnetic Theory
		Microwave Integrated Circuits
		Basic Building Blocks of Microwave Engineering
		Basic Electrical Engineering
		Digital Image Processing
4	ACIT, Mahim (Mumbai)	CCNA Certification Course

8. Details of courses/ programmes discontinued (if any) with reasons:

* To fulfill emerging needs of associated industry, some old courses are replaced and revised with new courses as follows:

Sr. No.	Name of Course	Semester	Reasons
1	Digital Logic Design	III	Revised in ETC 303 with some new topics
2	Electronic Devices & Circuits-I	III	Revised in ETC 302 with emphasis on analysis
3	Electronic Instrumentation	III	Course is revised with ETC 305 & ETL 303
4	Electrical Networks	III	Revised in ETC 304 & ETL 303
5	Presentation & Communication Techniques	III	Similar course is included with ETS 506 in fifth semester to inculcate professional ethics and codes of professional practice & leadership
6	Analog & Digital IC Design and Applications	IV	Revised with ETC 402 to include some new topics
7	Electronic Devices & Circuits - II	IV	Revised with ETC 402 to include some new topics
8	Electromagnetic Wave Theory	IV	Similar course is included with ETC 404
9	Principles of Communication Engineering	IV	Revised with ETC 502 in fifth semester
10	Electronic Hardware Workshop	V	Revised with ETL 504 & ETL 604 to enable to apply this knowledge to implement predefined practical problem
11	Environmental Studies	V	Similar course included in first Semester
12	Microprocessors &	V	Revised with ETC 501 to include

	Microcontrollers-I		ARM 7 processors
13	Principles of Control Systems	V	Similar course is included in fourth semester with ETC 406
14	RF Circuit Design	V	Revised with ETC 504 to include antenna theory
15	Antenna & Wave Propagation	VI	Revised with ETC 504 to include RF circuit design
16	Digital Telephony (Elective)	VI	Similar compulsory course is included with ETC 603
17	Radar Engineering	VI	Revised with ETC 704 to include microwave engineering
18	Industrial Economics & Telecommunication Regulation	VI	Not included in revised syllabus due to changes in telecommunication acts & regulations
19	Microprocessors & Microcontrollers - II	VI	Similar course is introduced in fourth semester with ETC 403 as per requirement of associated industry
20	Television & Video Engineering	VI	Revised with ETC 604 due to advancement of technology
21	Fundamentals of Microwave Engineering	VII	Revised with ETC 704 to include radar engineering
22	Introduction to VLSI Design	VII	Revised with elective ETE 704 to include new topics
23	Advanced Microwave Engineering	VIII	Similar course is included with ETE 803 to understand the implementation of microwave amplifiers, layouts, oscillator and mixer circuits
24	Digital Image Processing	VIII	Revised with ETC 701 due to advancement of technology
25	Optical Fiber Communication	VIII	Revised with ETC 703 to include packet switching, network design and management

9. Number of teaching posts:

All the posts of Professor, Associate Professor and Assistant Professor are filled as per norms of University & AICTE. Whenever there is requirement, selection committee is formed and vacant posts are filled at Institute level.

Sr. No.	Designation	Sanctioned	Filled
1	Professor	2	0
2	Associate Professors	4	1
3	Asst. Professors	15	12

10. Faculty profile with name, qualification, designation, specialization, (M.E./M.Tech. /Ph.D. etc.)**Regular faculty list:**

The department has experienced faculties with specialization in Microwave engineering, Communication, Energy Management, Power Electronics & Drives, Electrical Engineering, Control Systems, etc. The institute offers only UG courses.

Sr. No.	Name	Qualification	Designation	Specialization	No of years of experience	Photograph
1	Prof. Tathare S.S.	ME E&TC	Asst. Professor	Microwave, Networking, Electrical Circuits.	6.5	
2	Prof. Khedekar S.R.	ME E&TC (Ph D Pursuing)	Assistant Professor	Communication Microprocessor, Communication.	13	
3	Prof. Munghate S.C.	M.Tech (Energy Management System)	Asst. Professor	Energy Management System, Microprocessor &	8	

				Microcontroller Electrical Circuits, Electromagnetics.		
4	Prof. Latkar S.D.	ME E&TC (Ph D Pursuing)	Associate Professor	Networking , Image Processing, Electromagnetics	22	
5	Prof. Gadre M.S.	M.Tech (E&TC)	Asst. Professor	Signal Processing, Electrical Circuits, Instrumentation	26	
6	Prof. Pandharkame S.N.	M.Tech(E& TC)	Asst. Professor	Digital Electronics, Communication, Control Systems	8	
7	Prof. Mohite M.A.	ME E&TC	Asst. Professor	RF circuit Design, Analog Electronics, Communication	10	
8	Prof. Muchande S.K.	ME Electrical (PhD Pursuing)	Asst. Professor	Power Electronics & Drives, Electrical Circuits, Control Systems	15	
9	Prof. Iltapawar T.L.	ME E&TC	Asst. Professor	Microwave, Analog Electronics,	8	

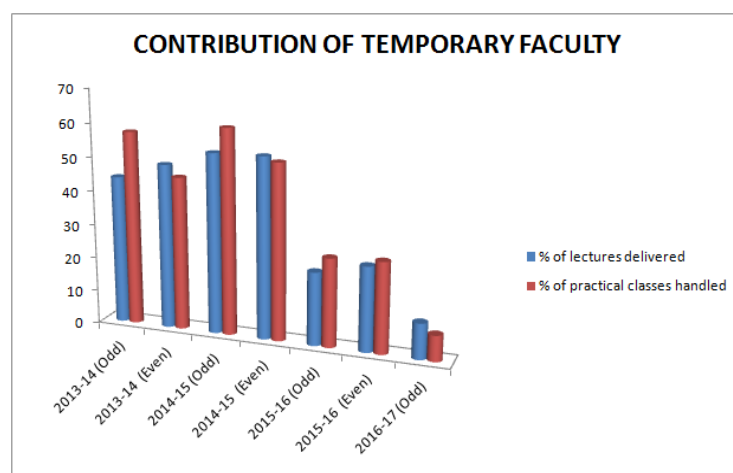
				Communication, Signal Processing, Networks.		
10	Prof. Kolge V.S.	ME E&TC	Asst. Professor	Neural Network, Electronics Devices and Circuits, Networking.	8	
11	Prof. Kamble V. T.	ME E&TC	Asst. Professor	Image Processing, Instrumentation, Communication.	7	
12	Prof. Warak P. L.	ME(Control Systems)	Asst. Professor	Electrical (Control Systems), Electronic Devices and Circuits.	5	

Temporary/ADHOC faculty list:

Sr. No.	Name	Qualification	Designation	Specialization	No of years of experience	Photograph
1.	Prof. Oak P.V.	ME E&TC (Ph D Pursuing)	Asst. Professor	Signal Processing, Biomedical Imaging, Image Processing	5.5	

11. List of senior visiting faculty: Nil**12. Percentage of lectures delivered and practical classes handled (programme wise) by Temporary faculty:**

Department of Electronics & Telecommunication Engineering	Year	Semester	% of lectures delivered	% of practical classes handled
	2016-17	Odd	10.52	7.59
		Even	12.89	17.64
	2015-16	Odd	21.64	26.15
		Even	25	26.78
	2014-15	Odd	53.21	60.60
		Even	53.38	51.94
	2013-14	Odd	44	57.57
		Even	48.75	45.33



13. Student -teacher ratio: (Academic Year: 2016-17)

While recruiting the faculties, utmost care is taken about resulting student-teacher ratio that will increase students' achievements, enhance students' exam scores and provide lasting academic benefits. An optimum student-teacher ratio provides freedom for faculty to give individual attention to each student and encourage greater participation of students in the class activities.

Student -teacher ratio = 167: 13
=12.84

14. Number of academic support staff (technical) and administrative staff; Sanctioned and filled:

	Sanctioned	Filled
Academic Support Staff (technical)	4	4
Administrative Staff	NA (Refer Note)	NA (Refer Note)

Note: Total 22 number of administrative staff and 60 number of house keeping staff are available in the institute and are shared by all departments.

15. Qualifications of teaching faculty with M.E./ M.Tech/ MPhil/ Ph.D.:

* The faculties of department continuously try to update their qualification.

Qualification	No. Of staff
Ph. D faculties	Nil
Ph. D pursuing faculty	4
PG faculty	09
UG faculty	Nil

16. Number of faculty with ongoing projects from funding agencies and grants received:

* Faculties have been sending research proposals to funding agencies as per their area of research.

* Our faculties, Prof. S. N. Pandharkame, Prof. S.D.Latkar, Prof. S.R.Khedekar & Prof. M.A.Mohite have received a research grant from funding agency for his research proposal.

a) National:

The idea is to design a High Electron Mobility Transistor (HEMT) Oscillator in X band which will provide less phase noise, higher conversion efficiency, and less losses, and will be helpful for communication satellites. The above

mentioned oscillator design is relevant to all microwave X band applications, like radar, terrestrial broadband, space communications and amateur radio.

Sr. No.	Funding Agency	Name of Project	Grant Received
1	Mumbai University	Design of HEMT Oscillator in X band used for Satellite Communication	Rs. 50000/-
2.	Mumbai University	FPGA implementation of 3D DOA estimation algorithm	Rs. 25000/-
3.	Mumbai University	Study of Routing in WLAN for performance improvement	Rs. 30000/-
4.	Mumbai University	Design and Implementation of Microstrip patch antenna using PMC	Rs. 25000/-

b) International

Sr. No.	Funding Agency	Name of Project	Grant Received
1.	Nil	Nil	Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

Sr. No.	Funding Agency	Name of Project	Grant Received
1.	Nil	Nil	Nil

18. Research centre /facility recognized by the university:

The institute has research center in collobaration Gharda Scientific Research Foundation (GSRF). Through this research center, research activities are encouraged in the Institute. The faculties are doing their research under research center. It is resulted in the approval of grant to our faculties from University of Mumbai. The students deliver their seminar on project ideas, to get sponsorship from GSRF.

19. Publications:

a) Publication per faculty:

- Number of papers published in peer reviewed journals (national /international) by faculty and students * Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

The faculties publish their research work in National & International journals and conferences. It increases the domain knowledge of the faculty and it helps in research process.

Faculty publication details:

Sr. No.	Name of the faculty	2012-13				2013-14				2014-15				2015-16				2016-17			
		I	J	CN	JNC	I	J	CN	JNC	I	J	CN	JNC	I	J	CN	JNC	I	J	CN	JNC
1	Prof. Khedekar S .R.					1								3					1		
2	Prof. Mrs. Kolge V.S.									1			1								
3	Prof. Mohite M.A.				2							1	1								
5	Prof. Latkar S.D.					1	2					1									
6	Prof. Rane K.P.												1								
7	Prof. Oak P.V.	1			1	1						1									
8	Prof. Tathare S.S.	1					1			1		1									
9	Prof. Munghate S.C.												2								
10	Prof. Muchande S.K.		1																		
11	Prof. Pandharkame S.N.												3								
12	Prof. Kamble V. T.					2															
13	Prof. Warak P. L.									2											
14	Prof. Jadhav K. R.					1						1									
	Total	2	1		3	6	3			4		5	11					1			

Details of Publication:**(1) Journals**

Academic Year 2015-2016					
Sr. No.	Name of Faculty	National / International	Title of Paper	Name of Journal	Date
1	Prof. Kamble V.T.	International	Preservation Of Region Of Interest(ROI) of ultrasound images using wavelet transformed based watermarking in Region Of Non-Interest(RONI)	International Journal of Current Engineering And Scientific Research, Volume-2, Issue-1.	21/12/14
2	Prof. Kamble V.T.	International	A Review Of Different Techniques On Digital Image Watermarking Scheme	International Journal of Innovative Science Engineering and Technology, Volume-3, Issue-2	04/01/15
3	Prof. Oak P. V.	International	Automatic Tumor Detection from brain MR Image using Image Processing	International Journal of Latest Technology in Engineering, Management and Applied Science, Volume 04, Issue 8	Agu.15

4	Prof. Latkar S. D.	International	Overview of 802.11 Power Saving Mechanisms.	International Journal on Recent and Innovation Trends in Computing and Communication, Vol.3, Issue 11.	11/12/15
5	Prof. Khedekar S. R.	International	DOA by Antenna Array Plane Rotation Minimizes Antenna Elements and Phase Error	International Journal of Control Theory and applications (SCOPUS indexed), Vol.9, Issue No.2	2016
6	Prof. Jadhav K. L.	International	Performance Analysis of STBC-MIMO OFDM System Using DWT & FFT	International Journal of Technical Research and Application” (IJTRA), Volume 3, Issue 5	Spt.oct .2015

Academic Year 2014-2015					
Sr . N o.	Name of Faculty	National / International	Title of Paper	Name of Journal	Date
1	Prof. Khedekar S. R.	International	Implementation of proposed DOA estimation algorithm on a FPGA platform.	International Journal of current engineering and scientific research, Vol 1, Issue 2	2014
2	Prof. Khedekar S. R.	International	Interference Mitigation through Adaptive Array Processing in GPS	International Journal of Advanced Engineering and global Technology, Vol 2, Issue 12	2014
3	Prof. Khedekar S. R.	International	DOA Estimation by mechanically rotating adaptive antenna plane	International Journal of Emerging Technologies and applications, ISSN 0974-3588	07/12/14
4	Prof. Rane .K. P.	Journal	SVD-Based Digital Image Watermarking	International Journal of Emerging Research Technology, Vol 2, issue 6	June 13
5	Profs. Kolge V.S.	International	Primary Level Classification of Brain Tumor using PCA and PNN	International Journal on Recent and Innovation Trends in Computer and communication.(IJRITCC	June 13

				) Vol. 2, Issue 6	
6	Prof. Pandharkame S.N	International	Improving Return loss of microstrip patch antenna using AMC.	International journal of engineering & computer science, Vol 4, Issue 3	03/03/15
7	Prof. Pandharkame S.N	International	A study of three-dimensional Fin FET source/drain structure	International journal of informative & futuristic research, Vol 2, Issue 7	19/03/15
8	Prof. Pandharkame S.N	International	Advanced reservation in optical grid for dynamic resources.	International journal of informative & futuristic research, Vol 2, Issue 4	Dec. 14
10	Prof. Mohite M.A.	International	Performance of Microstrip patch Antenna Using AMC	International journal of informative & futuristic research ISSN (Online) Volume 2 Issue 2347-1697	03/11 14
11	Prof. Munghate S. C.	International	Improving return loss of microstrip patch antenna using AMC	International journal of engineering & computer science (online) Volume 4 ISSN :2319-7242	03/03/15
12	Prof. Munghate S. C.	International	A study of three-dimensional Fin FET source/drain structure	International journal of informative & futuristic research, Vol	19/03/15

				2, Issue 7	

Academic Year 2013-2014					
Sr . N o.	Name of Faculty	National / International	Title of Paper	Name of Journal	Date
1	Prof. Oak P. V.	International	Contrast Enhancement of Brain MR Images using Histogram Based Techniques	International Journal in Research of Electrical, Electronics, Instrumentation and Control Engineering	June 2013

Academic Year 2012-2013					
Sr . N o.	Name of Faculty	National / International	Title of Paper	Name of Journal	Date
1	Prof. Tathare S.S.	International	Square Microstrip Antenna with frequency and polarization reconfigurability	International Journal of Latest Trends in Engineering and Technology, Vol 2, Issue 2	Mar 13

(2) Conferences

Academic Year 2016-2017					
Sr . N o.	Name of Faculty	National / International	Title of Paper	Conference Details	Date
1	Prof. Khedekar S. R.	International	Digital Beam forming to reduce antenna side lobes and minimise DOA error	International conference on signal processing and Embedded system	2017
Academic Year 2015-2016					
Sr . N o.	Name of Faculty	National / International	Title of Paper	Conference Details	Date
1	Prof. Tathare S. S.	International	Implementing a low cost SDN ecosystem in LAN	IEEE Indicon 2015.(Delhi)	17/12/15
2	Prof. Latkar S. D.	International	Cross Layer Design for Wireless Local Area Network	ICCCES 2016(Islampur, Sangli)	29/1/16
3	Prof. Latkar S. D.	International	Routing Protocol in Wireless Local Area Networks	ITC 2016 (Bangalore)	12/3/16
Academic Year 2013-2014					
Sr . N o.	Name of Faculty	National / International	Title of Paper	Conference Details	Date
1	Prof. Oak P. V.	National	Comparison of Brain MR Image Enhancement based on histogram based Techniques	E-PGCON (MIT Alandi Pune)	2013
2	Prof. Oak P. V.	National	Brain MR Image Specification using SVM	ISTE Staff Convention (GIT. Lavel)	15/11/13 to 16/11/13

					13
3	Prof. Tathare S. S.	International	Microstrip Antennas with Dual Re-configurability	Kavikulguru Institute of Technology & Science, Ramtek, Nagpur	18/12/13 to 20/12/13
4	Prof. Tathare S. S.	National	Frequency Reconfigurability	Recent Advances in Engg.& Technology, Organized by Gharda Institute of Technology, Lavel, Ratnagiri	15/11/13 to 16/11/13
5	Prof. Kolge V.S.	International	PCA and PNN assisted Brain Tumor classification	J. J. Magdum college of Engineering, Jaysingpur, Sangli	2013
6	Prof. Mohite M. A.	National	Recent Advances in Engineering Technology	Gharda Institute of Technology, Lavel.	2013
7	Prof. Latkar S. D.	National	Recent Advances in Engineering Technology	Gharda Institute of Technology, Lavel	2013
8	Prof. Warak P. L.	International	Mathematical Modelling of Nonlinear Inverted Pendulum	Institute of Research and Journals	06/10/13
9	Prof. Warak P. L.	International	Mathematical Modelling of Nonlinear Inverted Pendulum	International Conference on Emerging Trends in Technology and Applied Sciences	06/03/14
10	Miss. Jadhav K.	National	Comparative Analysis of OFDM	“e-PGCON 2014”	14/03/14 to

	R.		using FFT and DWT	organized by University of Pune	15/03/14
Academic Year 2012-2013					
Sr. No.	Name of Faculty	National / International	Title of Paper	Conference Details	Date
1	Prof. Muchande S. K.	International	Design and implementation of Direct Torque Control space vector Modulated Three Phase Induction Motor	Computing, communication & control. (Mumbai)	Jan 2013
2	Prof. Mohite M. A.	International	Improving Performance of Microstrip Patch Antenna	Deogiri Institute of Engineering, Aurangabad	March 2013
3	Prof. Mohite M. A.	International	Improving Performance of Microstrip Patch Antenna	GD College of Engineering, Nagpur	March 2013

Faculty publication with impact factor:

Sr. No.	Author/s	Name of Journal	Impact factor	Remark
1	Prof. Latkar S. D.	International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC),	5.837	SJIF (EVALUATION)
2	Prof. Kolge V. S.	International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC)	5.837	SJIF (EVALUATION)
3	Prof. Pandharkar S. N.	International journal of informative & futuristic research (IJIFR)	3.059	SJIF (EVALUATION)
4	Prof. Mohite M.A	International journal of informative & futuristic research (IJIFR)	3.059	SJIF (EVALUATION)

5	Prof. Mohite M.A	International journal of Engineering & Computer.	4.3098	SJIF (EVALUATION)
6	Prof. Mohite M.A	International journal of Engineering & Computer.	4.3098	SJIF (EVALUATION)
7	Prof. Munghate .S.C	International journal of informative & futuristic research (IJIFR)	3.059	SJIF (EVALUATION)
8	Prof. Khedekar S.R.	International Journal of Control Theory and Applications (IJCTA)	0.53	SJR (SCIENTIFIC JOURNAL RANKING)

List of patents awarded to faculties:

Sr. No.	Faculty Name	Title of Patents	Details
1.	Nil	Nil	Nil

List of scientific/ technical books written by faculty members:

The faculty is producing content in terms of lecture-notes and handouts required for students' practicals and theoretical subjects for private circulation. Specific requirements of students in our department are considered while producing respective content. It intends students to feel comfortable in their studies and practicals.

Sr. No.	Author/s Name	Title of Books	Details
1	Prof. Muchande S K	Basic Electrical Engineering	Covers experiments of basics of ac/dc circuits, transformer & motors
2	Prof. Tathare S. S.	Fundamentals of Microwave Engineering	Notes of Microwave-For Private Circulation
3	Prof. Munghate S. C.	Microprocessor & Peripherals	Printed Notes of Microprocessor 8086 and Application of Microprocessor 8086 for Private circulation
		Microcontroller & Applications	Printed Notes of Microcontroller 8051 and Application of

			Microprocessor 8086 for Private circulation
4	Prof. Mohite M. A.	Analog Electronics-I	Notes of Analog Electronics-I for Private circulation
		Analog Electronics-II	Notes of Analog Electronics-II for Private circulation
5	Prof. Oak P. V.	Digital Image Processing with MATLAB	Interesting MATLAB codes for changing the look of the digital image by various algorithms

20. Areas of consultancy and income generated:

The vector network analyzer (VNA) is a form of RF network analyzer, widely used for RF design applications. VNA is a test system that enables the RF performance of radio frequency (RF) and microwave devices to be characterized in terms of network scattering parameters, or S parameters. The information provided by the VNA is then used to ensure that the RF design of the circuit is optimized to provide the best performance. Using VNA in any RF design provides the RF design engineer with a view of the components and circuits that would not be possible with any other form of test equipment.

Sr. No.	Area of Consultancy	Income generated (Till Date)
1	Vector Network Analyzer (Antenna Testing)	4500/-

21. Faculty as members in

a) National committees b) International committees c) Editorial boards

Prof. Tirupati Iltpawar has reviewed a book on “*Basic Electrical and Electronics*”, which is published by Pearson Publications.

22. Student projects:

The main intention of Project work is to enable students to apply the knowledge and skills learned out of courses studied to solve/implement predefined practical problems. The Project work may be beyond the scope of curriculum of courses taken or may be based on the courses but thrust should be, learning additional skills, development of ability to define, design, analysis and implementation of the problem and lead to its accomplishment with proper planning, learn the behavioral science by working in a group. The students may use this opportunity to learn different computational techniques as well as some model development.

Academic Year 2016-17

a) Percentage of students who have done in-house projects including interdepartmental

/programme = 89 %

b) Percentage of students placed for projects in organizations outside the institution

i.e. in Research laboratories/Industry/other agencies = 11 %

a) Percentage of students who have done in-house projects including interdepartmental

/programme = 83 %

Academic Year 2015-16

Sr. No.	Name of the students	Project Guide	Project Title
1	Omkar Suryakant Jadhav Dattaram Prabhakar Gawade Mandar Gajanan Durge Akshay Sanjay Sheth	Prof. Munghate S. C.	Soil Analyzer Using Embedded System
2	Neha Vijay Shinde Chaitali Ramesh Sawant Trupti Subhash Satpute Snehal Suresh Surve	Prof. Kolge V.S.	Automated Electronic Meter Reading Via Modbus And GSM
3	Poonam Anil Ambre Smita Tanaji Bhosale Pritam Bharat Chiplunkar Priyanka Dadu Gadekar	Prof. Tathare S. S.	Simulation And Analysis Of Aodv Routing Protocol In Vanets
4	Saurabh B. Mokal Avinash B. Patil Kalidas D. Shirke	Prof. Muchande S. K.	Health Monitoring System Based On Zig-bee And GSM
5	Mubin Ahmed Khalil Khot Suraj Sudhir Kadu Pritesh Giridhar Thakur Akash Parshottam	Prof. Rane K. P.	Design A System To Detect A Device Using Wireless

	Solanki		Networking Technology
6	Sanket Sharad Shivalkar Vishal Vithoba Yadav Siddhartha Santosh Patil Manoj Mahendranath Lad	Prof. Rane K. P.	Automatic Pcb Defect Detection Using Image Processing
7	Sayali Santosh Chikhalkar Akash Ashok Chavan Madhavi Rajendra Nehate Shobha Bhagwat Shinde	Prof. Muchande S. K.	Design An Electronic System To Generate Electricity By Implementing Wind Energy Technology
8	Neha Shrikant Patil Vidita Vilas Patil Suraj Mahadev Mhatre	Prof. Pandharkame S. N.	Print Quality Detection Of Wrappers By Using Image Processing
9	Rutuja Yashwant Nikam Suraksha Prakash Kardile Sampada Shankar Pachakude Minal Manohar Padvekar	Prof. Pandharkame S. N.	Automatic Railway Gate Crossing Control Using Microcontroller
10	Siddhi Sandip Shinde Neha Shridhar Sakpal Amey Raghunath Salavi Dipali Rajendra Mukane	Prof. Mohite M. A.	Intelligent Platform For Crowd Management System Using Zigbee
11	Mandar Ashok Jadhav Chinmay Kishor Panchal Pranali Pradeep Kadam Nikhil Deepak More	Prof. Gajmal K.M.	Pcb Drilling Machine Using Cartesian Bot
12	Rahul Sunil Bhoir Sanket Balkrishna Gurav Abhijeet Baban Beloshe Sachin Laxman Dhanawade	Prof. Latkar S. D.	Drowsiness Detection Using Image Processing
13	Akshaya Anil Kadam Fraiha Maqsd Ashtikar	Prof. Munghate S.	Rfid Based Wireless

	Sapana Wayde Sayli Kasbale	C.	Shopping Cart For Supermarket
14	Tushar S.Ambre Amol Jadhav Mohit Sawant Arti Vibhute	Prof. Khedekar S. R.	Solar Energy Based Automatic Room Light Control
15	Tamke Shailesh Kishor Mhatre Tejas Ashok Gawale Jayashri Maruti Sunderbai Katle Nikhil Bharat	Prof. Khedekar S. R.	Density Based Traffic Light Control System

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies = 17 %

Sr. No.	Students	Guide	Title
1	Prachi Jaywant Jadhav Kanad Umesh Joshi Akshay Sunil Kadam Prajakta Prakash Kadam	Prof. Oak P. V.	Flame Detection Using Image Processing
2	Mithun Ramkrishna Nakti Mubin Ibrahim Maniyar Kunal Kailas Dhanawade Aniket Tanaji Mahadik	Prof. Tathare S. S.	Home Automation System Design Using Arm Processor
3	Saurabh Modak Vinit Upalakar Shahjahan Jabbar Shaikh Bhupendre Shukla	Prof. Gadre M. S.	Smart Digital Oscilloscope Using Android And Bluetooth

Academic Year 2014-2015

a) Percentage of students who have done in-house projects including interdepartmental /programme = 76 %

Sr. No.	Name of students	Guide	Title
1	Saumitra Thakur Akshay More Dinesh Sonure Gaurav Tawade	Prof. Gadre M.S.	Zig-bee based automatic meter reading and power theft detection

2	Wandhekar Vishal Gawade Ritu Mhatre Asavari Yadav Ajay	Prof. Tathare S.S.	Realization of photonic crystal structure as sensor
3	Amberdekar Shraddha Mali Priyanka Palkar Rupali Kadam Pallavi	Prof. Khedekar S.R.	Automatic detection of blood groups using Image processing
4	Desai Shreya Bhagwat Pratiksha Kamble Pradnya Nazare Saurabh	Prof. Sawardekar S.S	Wi-Fi notice board using Raspberry P
5	Amitkumar Jaisal Benazeer memon Poonam Ghule Himani Tondlekar	Prof. Iltapawar T.L.	PC to PC wireless communication using ARDUINO
6	Akshay Gadhave Kalpesh Patil Akshay Pakle Chetan Durgavale	Prof. Khedekar S.R.	Li-Fi(Light Fidelity)-The future technology in wireless communication
7	Sneha Dighe Manish Singh Rajesh Nirmal Tejal Patil	Prof. Gadre M.S.	Mobile Supervisory Control and Data Acquisition
8	Jagruti salvi Tanuja Dabholkar Pranali Sawant Sumit Thakur	Prof. Pandharkame S.N	Home automation using GSM with voice control
9	Pooja Pawar Pranjali Kalkutki Shyam Paranjape Sharavari S. Bhelsaika	Prof. Muchande S. K.	Multilevel anti theft car security system
10	Nikita Borkar Sayali Salunke Gunesh Taldevkar Ajinkya Sankhe	Prof. Maharatha S. K.	Vehicle to vehicle communication through Zig-bee technology
11	Nikhil Bhosale Ajit Pawar Mayauri Kanase Viraj Shirkar	Prof. Rane K.P.	GSM based greenhouse monitoring and controlling
12	Vaibhav Bhatt Nikhil Rankhambe	Prof. Mohite M.A.	High speed data transfer using optical

	Ninad Kadam		fiber communication
13	Madhav Naiknware Amit Verma Vaibhav Mane Tushar Kumbhar	Prof. Munghate S.C.	Air pollution monitoring and displaying by using sensors and GSM technology

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies = 24 %

Sr. No.	Students	Guide	Title
1	Rohan Kharade Abhishek Dandekar Sushil Mahade Omkar patil	Prof. Tathare S.S.	LAN Configuration using Software Defined Networking
2	Sneha Patil Maladar Ahad Sayli Pawar Sameer Patil	Prof. Sawardekar S.S	Secured attendance biometric system
3	Desai Pratiksha Ghadge Ankita Chavan Sayali Batale Pratiksha	Prof. Kolge V.S.	GSM based automatic meter reading system using ARM controller
4	Rohan Bhalekar Manish Nagarkar Naveed Dalwai Shrutika Vavekar	Prof. Kolge V.S.	Design of Intelligent traffic control system

Academic Year 2013-2014

a) Percentage of students who have done in-house projects including interdepartmental /programme = 82 %

Sr. No.	Name Of Students	Guide	Title
1	Adawade Rohit Shivaji Kelaskar Siddhesh Sadanand Landage Rohit Tanaji Nagpurkar Amol Arun	Prof. Pandharkame S.N.	GSM Based Electronic Notice Board (Running Light Display)
2	Ambalamvila Tony Thomas	Prof. Iltapawar T.L.	Train Crowd Management System

	Dalal Shreyas Santosh Patil Nikhil Nityanand Ruke Ajay Subodh		
3	Pawar Bhagyashri Dilip Shirke Vrushali Anil Yelamkar Kamlesh Manohar	Prof. Muchande S.K.	Sun Tracking Solar Panel For Domestic Use
4	Bangar Sonali Shivaji Chaugule Varsha Pundlik Hemlata Saawant Siddhant Govind Vichare Manan Pradeep	Prof. Gadre M.S.	Solar Oxygen Tree
5	Bhosale Amit Hanmant Ghag Devyani Dattaram More Prashant Parshuram Munde Kailas Kishan	Prof. Gadre M.S.	Password Based Circuit Breaker
6	Chavan Prameel Pramod Desai Uday Dadaso Jadhav Sagar Maruti	Prof. Pandharkame S.N.	Peltier Based Cooling System
7	Dalvi Prasad Pradeep Sagvekar Purushottam Gajanani Sakpal Manesh Devendra Sony Swapna Devilal	Prof. Munghate S.C.	Automatic Water Distribution System
8	Dhumal Poonam Dattatray Garade Supriya Shivaji Ghatage Suhas Suresh Naik Akshay Kishor	Prof. Maharatha S. K.	Rfid Based Tole Tax Collection System
9	Kazmi Kashif Mazhar Vasif Akhtar Ugade Vaibhav Maruti	Prof. Maharatha S. K.	Water Level Sensor, Automated Water Supply System
10	Koli Amit Saiprasad Shaikh Karishma	Prof. Mohite M.A.	Android Based Wireless Robotic

	Kasim Shetve Shamal Sadashiv Shinde Vinit Vishnu		Lifter
11	Naik Apeksha Gajanan Padalkar Pooja Prakash Shinde Pooja Sham Verma Aparajita Ramkumar	Prof. Sawardekar S.S.	Rfid Based Bus Management System
12	Palve Yogesh Bharat Shinde Avinash Bhairu Shirke Amar Shankar Wagh Mangesh Sanjay	Prof. Sawardekar S.S.	Presence Sensing Light Control
13	Panhalkar Sharad Mahadev Patil Mitesh Janardan Patil Shreenivas Uttam Shigwan Sanchita Nandakumar	Prof. Khedekar S.R.	IVRS Based Student Information Retrieving System
14	Bandarkar Farooq Sulaiman	Prof. Itapawar T.L.	Password Based Circuit Breaker

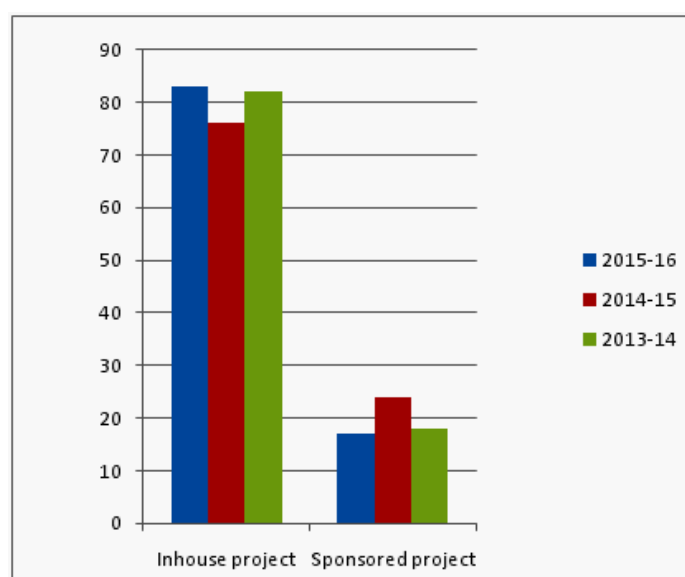
b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies = 18 %

Sr. No.	Students	Guide	Title
1	Ambre Arti Ramakant Bavalekar Sachin Bhikan Gate Sayali Laxman Gurav Omkar Vishwas	Prof. Khedekar S.R.	Student Attendance System By Face Recognition System
2	Deogharkar Ankit Harishchandra Gole Mandar Mahadeo Patil Pooja Tanaji Pingale Neha Balkrishna	Prof. Munghate S.C.	Gsm Based Prepaid Energy Meter System
3	Patil Umesh Annasaheb Tapase Kiran Mahadev	Prof. Mohite M.A.	Pen Drive To Pen Drive Data Transfer Without Pc

	Yadav Rushikant Bhimrao Yerudkar Prathamesh Shashikant		

* Our Department allows the students for sponsored project from Industry or other organization. The purpose of Industrial sponsored project is to get industrial exposure.

Graphical Analysis of In house projects versus Sponsored project.



23. Awards / Recognitions received by faculty and students:

Electronics and Telecommunication department always motivates the students to participate in various co-curricular and extracurricular activities for their overall development. Students explore their talent by showing outstanding performance through continuous learning.

Year	Name of Faculty/Student	Awards/Recognition
Academic Year 2016-17		
2016	Alan Dias	First Prize in Group Discussion(English) in Swatantrya Mahotsav, Chemical Dept., GIT, Lavel
2016	Alan Dias	First Prize in Debate(English) in Swatantrya Mahotsav, Chemical Dept., GIT, Lavel

Academic Year 2015-16		
2016	Dattaram Gawade & Karishma Yadav	First prize in Quiz (GIT SHODH - 2K16)
2016	Tejas Chavan & Suyog Bane	Second prize in Quiz (GIT SHODH - 2K16)
2016	Ankita Pawar & Minakshi Panchal	First prize in Poster presentation Quiz (GIT SHODH - 2K16)
2016	Bhupendra Shukla, Shajahan Shaikh, Vinit Upalkar, Saurabh Modak	First prize in Project presentation (GIT SHODH - 2K16)
2016	Chinmay Panchal, Mandar Jadhav, Pranali Kadam, Nikhil More	Second prize in Project presentation (GIT SHODH - 2K16)
2016	Dattaram Gawade & Karishma Yadav	First prize in Quiz (GIT SHODH - 2K16)
2016	Tejas Chavan & Suyog Bane	Second prize in Quiz (GIT SHODH - 2K16)
2016	Ankita Pawar & Minakshi Panchal	First prize in Poster presentation Quiz (GIT SHODH - 2K16)
2016	Bhupendra Shukla, Shajahan Shaikh, Vinit Uphalkar, Saurabh Modak	First prize in Project presentation (GIT SHODH - 2K16)
2016	Chinmay Panchal, Mandar Jadhav, Pranali Kadam, Nikhil More	Second prize in Project presentation (GIT SHODH - 2K16)
Academic Year 2014-15		
2015	Asavari Mhatre, Vishal Wandekar, Ajay Yadav, Ritu Gawade	Second prize in Paper presentation (GIT SHODH - 2K15)
2015	Alan Dias, Suyog Indulkar	First prize in Poster presentation (GIT SHODH - 2K15)
2015	Nikhil More, Manoj Lad	Second prize in Poster presentation (GIT SHODH - 2K15)
2015	Sneha Dighe, Tejal Patil, Rajesh Nirmal, Manish Singh	First prize in Project presentation (GIT SHODH - 2K15)
2015	Mandar Durge	First prize in MATLAB competition (GIT SHODH - 2K15)
2015	Priyanka Mali	Second prize in MATLAB competition (GIT SHODH - 2K15)
2015	Viraj Shirkar	Second prize in MATLAB

		competition (GIT SHODH - 2K15)
2015	Shraddha Ambardekar	Second prize in MATLAB competition (GIT SHODH - 2K15)
2015	Akshay Gadhave	First prize in Circuit Design competition (GIT SHODH - 2K15)
2015	Ninad Kadam, Nikhil Rankhambe	First prize in Circuit Making competition (GIT SHODH - 2K15)
2015	Kunal Patil, Shreeya Patwardhan	First prize in Quiz competition (GIT SHODH - 2K15)
2015	Ritu Gawade, Asavari Mhatre	Second prize in Quiz competition (GIT SHODH - 2K15)
Academic Year 2013-14		
2014	Arti Ambre	First prize in paper presentation (GIT SHODH - 2K14)
2014	Mitesh Patil	First prize in project competition (GIT SHODH - 2K14)
2014	Vrushali Shirke	Second prize in project competition (GIT SHODH - 2K14)
2014	Mitesh Patil	First prize in poster presentation (GIT SHODH - 2K14)
2014	Shreenivas Patil	First prize in Battle of breadboard (GIT SHODH - 2K14)
2014	Manish Nagarkar	Second prize in Battle of breadboard (GIT SHODH - 2K14)
2014	Amit Bhosale	First prize in Curiosia (GIT SHODH - 2K14)
2014	Sayali Gate	Second prize in Curiosia (GIT SHODH - 2K14)
2014	Alan Dias	First prize in MATLAB challenge (GIT SHODH - 2K14)
2014	Swapna Sony	Second prize in MATLAB challenge (GIT SHODH - 2K14)
2014	Rohan Kharade	First prize in Designer (GIT SHODH - 2K14)
2014	Mitesh Patil	Second prize in Simulator (GIT SHODH - 2K14)

University Toppers:

Year	Name of Student	Awards/Recognition
Academic Year 2015-16		
2016	Prachi Jadhav	University Rank - - (7.79 CGPA)
2016	Mandar Durge	University Rank - - (7.75 CGPA)
2016	Suraj Kadu	University Rank -- (7.75 CGPA)
Academic Year 2014-15		
2015	Dalwai Naveed	University Rank - 26 (78.06%)
2015	Borkar Nikita	University Rank - 46 (77.22%)
2015	Batale Pratiksha	University Rank -183 (74.51%)
Academic Year 2013-14		
2014	Mandar Gole	University Rank: 85 (74.77%)
2014	Arti Ambre	University Rank: 93 (74.64%)

25. List of eminent academicians and scientists / visitors to the department:

Ref. No.	Name of the Person	Designation	Place of Work	Purpose of Visit
Academic Year 2016-17				
1	Dr. S. K. Chakraborty	Professor	IITB	Reviewing selected BE projects
Academic Year 2015-16				
1	Dr. R. K. Lagu	Professor	IITB	Mentoring
2	Dr. S. K. Chakraborty	Professor	IITB	Judge- Most Innovative Event-SHODH 2016
3	Dr. Mrs. S. V. Sankpal	Professor	D.Y.P.C.E.T., Kolhapur	Event-SHODH 2016 Judge-Project Competition
Academic Year 2014-15				
1	Mr. S. N. Todkar.	Regional Manager, Konkan Railway, Ratnagiri.	Indian Railway	Seminar on “Anti-collision Device” Aug.2015

2	Dr. R. N. Duche.	H.O.D.	Pillai, Rasayani	Resource Person for workshop, “Application Specific Softwares in communication Engg.” May 2015
Academic Year 2012-13				
1	Dr. R. N. Duche.	H.O.D.	Pillai, Rasayani	Guest for workshop on “ PCB Designing using DIPTRACE and express PCB software”

NOTE:

1. Dr. R. K. Lagu:

Dr. Lagu, Professor from IIT Bombay visited our department for general mentoring purpose. He had an expert talk with the students of our department, specially, BE EXTC about projects and its importance. He motivated all the faculties for research activities, using available resources and forming groups according to research area.

2. Dr. S. K. Chakraborty:

Dr. Shantanu Chakraborty, Professor from IIT Kharagpur visited our department and was chief judge for most innovative event of SHODH 2016. He carefully observed projects of our students and gave comments and suggestions. He also encouraged students & faculties.

3. Dr. Mrs. S. V. Sankpal:

Dr. Sankpal, Professor from D.Y.P.C.T., Kolhapur visited our department and judged most interesting event of Project Presentation in SHODH 2016. She also gave encouragement to the students and faculties.

4. Mr. S. N. Todkar:

Mr. S. N. Todkar, who is Regional Manager, Konkan Railway, Ratnagiri gave seminar on “Anti Collision Device” in Aug 2015. His seminar was very much interesting and related to actual application of knowledge in Engineering in Railways. He explained nicely, how he invented the very useful and important

device with his team members and importance of teamwork.

5. Dr. R. N. Duche:

Dr. R. N. Duche, H.O.D., Pillai, Rasayani was resource person for the one week ISTE approved STTP, “Application Specific Softwares in communication Engg.” May 2015. He focused on the simulation softwares related to VLSI.

6. Dr. R. N. Duche:

Dr. R. N. Duche, H.O.D., Pillai, Rasayani was resource guest for PCB DESIGNING workshop. He guided the students about PCB designing using express PCB software.

25. Seminars/ conferences/workshops organized & the source of funding
a) National b) International:

Ref. No.	Seminars /Conferences/ Workshops Organized	Year	Source of Funding
1	CMOS, Mixed Signal and Radio Frequency VLSI Design	30/01/17-04/02/17	ISTE, IIT Kharagpur
2	Research Methodologies	29/06/15-03/07/15	ISTE
3	Application Specific Softwares in Communication Engineering	05/05/15-09/05/15	ISTE
4	Cyber Security	10/07/14-20/07/14	IIT Bombay
5	Control Systems	02/12/14-12/12/14	ISTE, IIT Kharagpur
6	Computer Networks	30/06/14-05/07/14	IIT Bombay
7	Computer Programming	28/06/14-10/07/14	IIT Bombay
8	Signal Systems	2/01/14-12/01/14	ISTE, IIT Bombay and IIT Kharagpur
9	Analog Electronics	04/06/13-14/06/13	IIT Kharagpur

Note:

1. Research Methodologies: This workshop was very beneficial and important to write research paper along with study of different research methods useful while pursuing Ph.D.

2. Application Specific Softwares in Communication Engineering: It was an application oriented workshop approved by ISTE for the faculties of

Electronics & E&TC. The STTP was based on demo and practical exposure to microwave related simulation softwares and its use for commercial purpose.

3. Cyber Security-IIT Bombay : The workshop provided training to participants on teaching pedagogy to make extensive use of technology and covered teaching of the following topics like Secret Key Cryptography, Public Key Cryptography, Applications of the crypto hash, Authentication Protocols, Transport Layer Security (SSL/TLS), Web application security, Software security, Security Tools - Wireshark, Snort, Metasploit, etc.

4. Control System-ISTE, IIT Kharagpur: The workshop was beneficial for regular/visiting faculty colleagues who are teaching subjects like Control Systems, Signal Processing, Signals and Systems, Process Control, Flight Control, Dynamics etc at the undergraduate or the postgraduate level.

5. Computer Network:-IIT Bombay: The primary objective of the workshop is to make extensive use of technology and covered topics like Physical Layer, Link Layer, Network Layer, Transport Layer, Application Layer.

6. Computer Programming-IIT Bombay: The workshop is beneficial for faculty who are teaching the computer programming. In this workshop, Linux, moodle, Simple programs, functions, arrays, pointers, and applications were discussed.

7. Signal Systems-IIT Bombay and ISTE, IIT Kharagpur: The workshop was helpful to boost knowledge to regular/visiting faculties those who are teaching subjects like Signals and Systems, Digital Signal Processing, Network Theory and Control Systems. The workshop gave clear idea about applications of signal processing.

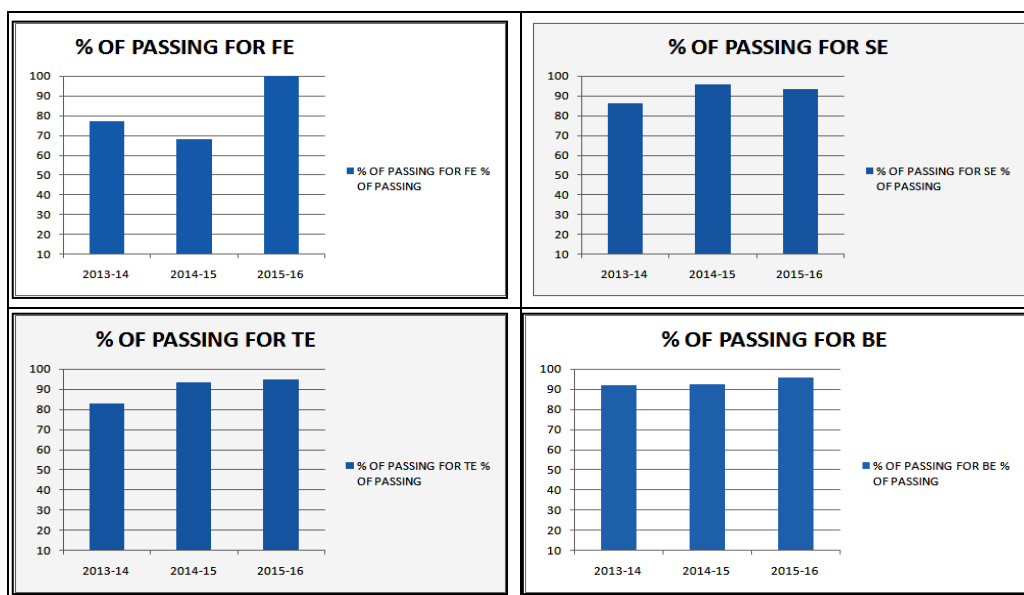
8. Analog Electronic-ISTE, IIT Kharagpur: The workshop was beneficial to faculty who were teaching Analog Electronics and/or related subjects at the undergraduate or the postgraduate level. In such type of workshop, faculties learnt Semiconductor Devices (BJT and MOSFET), Single stage amplifiers, Multi stage amplifiers, Differential amplifier, Stability and Oscillators, Power amplifiers.

26. Student profile programme/course wise:

Academic Year	Applications received	Selected	Enrolled		Pass Percentage
			*M	#F	
2016-17	FE=	FE=22	16	6	
	SE=	SE=28	19	9	
	TE=	TE=46	29	17	
	BE=	BE=71	34	37	
	Total=	Total=167	98	69	
2015-16	FE=11	FE=10	8	2	100%(10)
	SE=33	SE=34	17	17	93.58%
	TE=66	TE=66	30	36	94.57%
	BE=70	BE=75	46	29	95.58%
	Total=180	Total=185	101	84	Average=95.96%
2014-15	FE=32	FE=25	7	18	68%(17)
	SE=69	SE=70	37	33	95.65%
	TE=75	TE=75	47	28	93.33%
	BE=67	BE=67	37	30	92.53%
	Total=243	Total=237	128	109	Average= 87.37%
2013-14	FE=61	FE=53	35	18	77.36%(41)
	SE=87	SE=87	52	35	86.20%
	TE=66	TE=66	38	28	82.71%
	BE=62	BE=62	40	22	95%
	Total=276	Total=268	165	103	Average=84.57%

1) Graphical representation of First Year Result

From the below shown graph it is seen that, the result is gradually increasing due to new teaching methodologies and combined efforts of students and staff. Preplanned efforts and systematic study show the result improvement and EXTC dept always tries for making them eminent Engineers.



27. Diversity of students:

* Institute population of students is dominantly from local rural area.

Department: Electronics and Telecommunication Engineering			
Academic Year	% of students from the same state	% of students from other states	% of students from abroad
2016-17	100	00	00
2015-16	100	00	00
2014-15	100	00	00
2013-14	100	00	00

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

* Students are motivated to appear for competitive exams like GATE, MPSC, UPSC, CAT, etc. GATE coaching is provided by departmental faculties to the students of third year and final year students.

Year	Name of competitive Examinations	No. of Students qualified
2014-15	GATE	1
2013-14	GATE	2
2012-13	GATE	2

29. Student progression:

* The students of department are guided and motivated to opt for higher studies as well as to attend campus interviews/off-campus drives. Also the students are motivated for the entrepreneurship or self-employment.

Students Progression		% Against enrolled				
		Academic Year				
		2016-17	2015-16	2014-15	2013-14	2012-13
UG to PG		NA	NA	2.98	4.47	2.9
Employed	1) Campus selection	96.55	0	0	0	0
	2) Other than campus recruitment	-	53.84	22.22	22.00	16.66
Entrepreneurship/Self employment		-	1.42	0	1.49	1.45

30. Details of infrastructural facilities:

a) Departmental library:

1. Area of the library (in Sq. Mts.): 27 Sq. m.
2. Seating capacity: 20 Students
3. Library holdings:

Library Holdings	No. of Titles	No. of Volumes
Books	137	201
Journals/periodicals	6 (Available in central library)	6
Newspapers	13 (Available in central library)	13
E-resources	2(Available in central library)	2

Project reports	52 (2015-16-- 18, 2014-15--17, 2013-14--17)	52
Seminar reports	41	42
Any other(specify)	275 Science direct 498 IEEE Papers(Available in central library)	275
E-learning Resource Center	1	NA

* Though all the books mentioned in the syllabus are available in sufficient quantity in the central library, departmental library facility is also available in our department. Generally students and staff borrow the books from the central library. But in case of emergency purpose or if quick reference is needed, then faculty and students borrow book from departmental library. Departmental library contains important textbooks/reference books of almost all the subjects.

b) Internet facilities for staff & students:

- 1) ISP – BSNL AND DEEP NETWORKS
- 2) Leased line 30 Mbps and 4 Mbps.
- 3) Compression ratio - 1:1
- 4) Wi-Fi facility: Yes
- 5) Firewall: Cyberoam

* We have dedicated lease line & Broadband line (PPPoE), which provides ratio of 1:1. We manage our internet through Cyberoam. The best feature of that firewall is load balancing.

c) Class rooms with ICT facility:

The classrooms are well-equipped with multimedia devices thus giving students opportunity to study in different helpful ways, like video lectures, animations, transparencies, presentations, etc. The entire departmental area is under CCTV surveillance which helps the higher authority to monitor the discipline.

Sr. No.	Room Description	Usage	Size in (Sq. Mtr.)	Capacity	Rooms Equipped with
1	Multimedia Classroom (BE)	Audio-Visual Lectures, Animation in Lectures, NPTEL	98 Sq. Mtr.	60	Fixed Projector, Screen, Speaker, Internet, Green Board, CCTV

		Lectures, Expert Seminars			
2	Smart Classroom (TE)	Audio-Visual Lectures, Animation in Lectures, NPTEL Lectures, Expert Seminars	98 Sq. Mtr	60	Fixed Projector, Smart Board, Screen, Internet, Green Board, CCTV
3	Multimedia Classroom (SE)	Academic Lectures	98 Sq. Mtr	60	Screen, OHP, Green board, Internet, CCTV

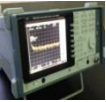
d) Laboratories:

The laboratories are with advanced relevant infrastructure, with three computer labs, and five hardware labs. The vector network analyzer in telecom and networking lab is present only with us in Konkan region, through which antenna testing can be done up to 4 GHz. Also, Universal Programmer facility is present in Software Simulation Laboratory. The Dark Room in Industrial Electronics Lab is advanced method used for PCB designing.

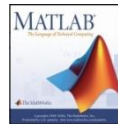
Lab No	Curriculum Lab Description	Use Exclusive / Shared	Space (Sq. Mtr.)	Lab Incharge	Investment (In Rs.)
01	Advanced Communication Lab.	Exclusive	55 Sq. Mtr.	Prof. Iltapawar T. L.	10,95,873.74
02	Project/Simulation Lab.	Exclusive	62.55 Sq. Mtr.	Prof. Kamble V. T	27,62,704.48
03	Communication Lab.	Exclusive	91.14 Sq. Mtr.	Prof. Mohite M.A.	11,25,052.62
04	Electronics Design Lab.	Exclusive	97.83 Sq. Mtr.	Prof. Pandharkam e S.N.	7,76,118.81
05	Project/Simulation Lab.	Exclusive	62.55 Sq. Mtr.	Prof. Burte R.R.	27,62,704.48
06	Software Lab.-1	Exclusive	62.55 Sq.	Prof. Oak P.V.	24,03,703.4

			Mtr.		
07	Software Lab.-2	Exclusive	54.23 Sq. Mtr.	Prof. Oak P. V.	17,45,264
08	Industrial Electronics Lab.	Exclusive	75.66 Sq. Mtr.	Prof. Gadre M.S.	5,16,153.95
09	Basic Electrical Engg.	Shared	123.1 1 Sq. Mtr.	Prof. Muchande S. K.	7,78,045
10	Communication Skills Language Lab	Shared	90 Sq. Mtr.	Prof. Mane S. S.	5,90,050
Total (in Rs.) One Crore Forty Seven Lakhs Ninety Two Thousand Eight Hundred Sixty Nine Rupees Seven Paise.					1,47,92,869.7

List of major equipments and software:

Sr. No .	Name of Equipment	Name of Laboratory	Cost (In Lakhs)	Significance	Image
01	Nv 2001 Radar Trainer	Communication Lab.	13.76	Real Time Fan Rpm And Vibrations Measurements With The Help Of Tuning Forks	
02	Digital Storage Oscilloscope 4-Channel	Electronics Design Lab	0.61	Electronics Signal Checking	
03	Spectrum Analyzer 051022	Advance Communication Lab	3.95	To Observe AM Bandwidth	
04	CDMA Mobile Communication Trainer	Advance Communication Lab	0.63	Observation Of Digital Transmission	
05	GSM Mobile Telephony Communication	Advance Communication Lab	0.81	Perspective Communication Using SIM	

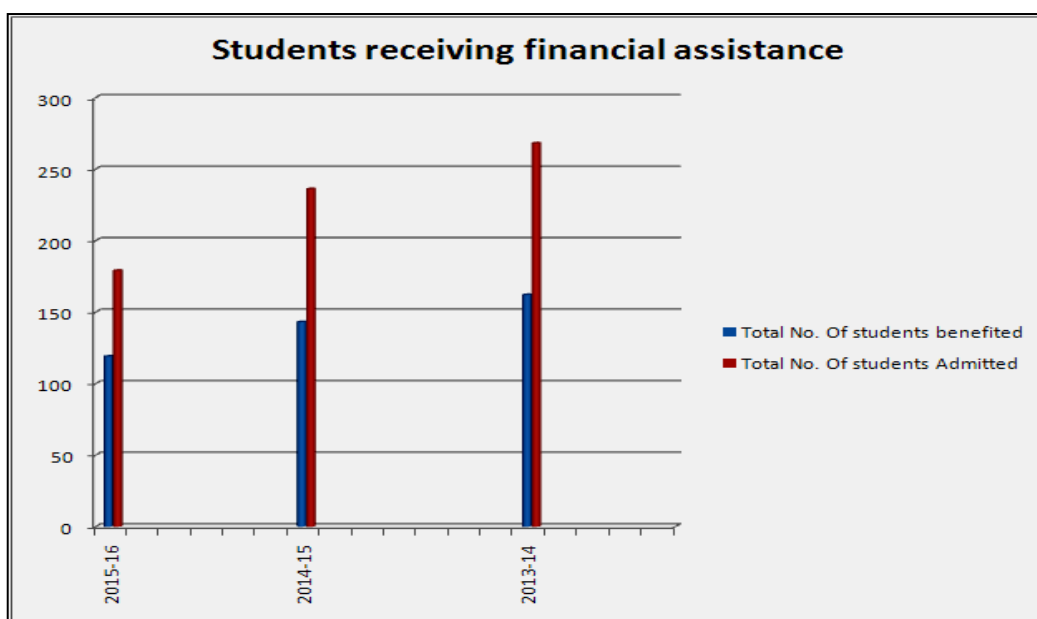
	Trainer				
06	Spectrum Analyzer	Telecommunication & Networking Lab	1.68	To Observe Various Frequency Characteristics	
07	Antenna Trainer	Telecommunication & Networking Lab	0.76	Measurement Of Antenna Parameters	
8	Dual Wavelength Fiber Optic Laser Source & Detector Module (Fom-1d)	Telecommunication & Networking Lab	2.29	To Observe Wavelength Division Multiplexing	
9	Fiber Optic Passive Component Module (Fom-2)	Telecommunication & Networking Lab	1.72	To Connect Optical Components In The Network	
10	Single Module Fiber Optic Cable Module (Fom-3b)	Telecommunication & Networking Lab	1.72	Obseving Characteristics Of Optical Source And Detector	
11	Universal Programmer Kit	Project & Simulation Lab	0.78	Microcontroller Projects	
12	DC Power Supply(Rectifier Unit)	Basic Electrical Electronics Lab.	1.45	Convert Ac To Dc Poer Supply	
13	Vector Network Analyzer	Telecommunication & Networking Lab	12.89	Antenna Testing	
14	7.5 Hp/220v Compound DC Motor	Basic Electrical Electronics Lab.	0.66	To Find Characteristics Of Dc Motor	

15	7.5 Hp/415v Slip Ring Induction Motor	Basic Electrical Electronics Lab.	0.63	Speed Control Of Dc Motor	
16	Matlab 2012(S/W)	New Software Lab	10.89.	Signal Processing	
17	Matlab 2010 (S/W)	Software Lab	14.24	Signal Processing	
18	Proteus VSM (S/W)	Software Lab	4.83	Microprocess or Projects	
19	Microwind (S/W)	Project & Simulation Lab	4.19	VLSI Design	
20	Tina S/W Education V8 Design Suite (S/W)	Project & Simulation Lab	1.86	Digital, Analog Designing Software	
21	'Spj' Make C Compiler For 8051 Microcontroller (S/W)	Project & Simulation Lab	6.81	Microcontroller Projects	
22	Multisim(Software) 10 Users (S/W)	Project & Simulation Lab	3.00	Digital, Analog Designing Software	
23	Active Hdl(Software) 5 Users (S/W)	Project & Simulation Lab	2.75	Digital Designing Software	

31. Number of students receiving financial assistance from college, university, government or other agencies:

Academic Year	Type of financial assistance	Financial assistance from (Agency/college)	No. Of students benefited
2016-17	EBC	State Government	19
	Merit Scholarship	Gharda Institute of Technology	06
	TFWS	Gharda Institute of Technology	09
	Hostel Fee Discount	Gharda Institute of Technology	18
	One Time Scholership	Gharda Institute of Technology	02
	Minority Scholarship	State Government	09
2015-16	Scholarship & Free-ship	State Government	86
	EBC	State Government	18
	Merit Scholarship	Gharda Institute of Technology	07
	TFWS	Gharda Institute of Technology	07
	Minority Scholarship	State Government	07
	Late. Nirmala Damodar Karandikar Scholarship	Mr. Ravindra Karandikar	01
2014-15	Scholarship & Free-ship	State Government	102
	EBC	State Government	24
	Merit Scholarship	Gharda Institute of Technology	08
	TFWS	Gharda Institute of Technology	09
	Minority Scholarship	State Government	14
	Late. Nirmala Damodar Karandikar Scholarship	Mr. Ravindra Karandikar	01
	Sansthan ShrideveBhargavram Scholership	Sansthan ShrideveBhargavram	01
	Dr. P.S. Ramanathan Endowment	Dr. Prasad Ramanathan	01

2013-14	Scholarship & Free-ship	State Government	110
	EBC	State Government	32
	TFWS	Gharda Institute of Technology	04
	GIT Merit Scholarship	Gharda Institute of Technology	09
	Minority Scholarship	State Government	15
	Late. Nirmala Damodar Karandikar Scholarship	Mr. Ravindra Karandikar	01



* **Scholarship & freeship:** This scholarship is given to students who belong to backward class such as OBC,ST/SC,VJNT etc. and is sponsored by State Government.

* **EBC:** Concession Amount of 50% of total fees given to students who are economically backward (Annual income less than 5 lacs). It is sponsored by State Government.

* **GIT Merit scholarship :** Amount of Rs.12000/-, 10000/- & 8000/- is awarded for merit-wise top 3 students in each year from every discipline, which is sponsored by institute.

* **TFWS Scholarship:** Amount of Tuition fees is given to first 3 students by merit in XIIth or diploma. This scholarship is sponsored by institute to get the concession in tuition fees.

* **Minority Scholarship:** This scholarship is offered by State Government to students who belong to minority categories such as Sikh, Christian, Muslims etc. with annual income less than 5 lakhs.

* **Dr. P.S. Ramanathan Endowment Scholarship:** An amount of Rs.10000/- is sponsored by Dr. Prasad Ramanathan in memory of his late father Dr. P. S. Ramanathan to be given to needy & scholar students, (please avoid comma) whose parental income is below 5 lakhs per year.

* **Late. Smt. Nirmala Damodar Karandikar Scholarship :** An amount of Rs.10000/- is sponsored by Mr. Ravindra Karandikar in memory of his late mother Nirmala Damodar Karandikar to be given to the needy & scholar local girl students.

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

External Experts:

Academic Year: 2016-17					
Ref. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	Career Guidance in Managament	Mr. Satish Kadam	13/02/17	1 hour	BE(32)
2	IOT based Seminar	Mr. Sharad Tiwari	6/02/17	1 hour	TE (15)
3	Robowars	Mr. Sharad Tiwari	4 to 6/02/17	3 days	FE, SE, TE & other colleges(106)
4	IOT based Project Seminar	Mr. Sanjay Awati	30/01/17	1 hour	TE and BE(80)

5	TV Workshop	Mr. Hari Pol	22/01/17	1 day	SE & TE(18)
6	Webinar on “Embedded Systems”	Mr. Sharad Tiwari	20/09/16	1 hour	TE & BE (80)
7	Webinar on “Recent Trends in IT Industry”	Miss. Sayali Yewle	20/09/16	1 hour	TE & BE (80)
8	Industrial Automation & Robotics Seminar	Mr. Vinay Kumar & Mr. Deepak Jaiswal	21/09/16	1 day	TE (43) & BE (52)
9	BIG DATA & HADOOP	Mr. Amit Koli	14/08/ 16	6 hours	T.E./B.E.(20)
10	IIT Bombay projects	Mr.Rohan Kharade	06/08/16	2Hours	T.E. /B.E(74)
11	Aptitude Training	Mr. Mandar Zarekar	08-10/07/16	3 days	T.E./B.E.(35)
Academic Year: 2015-16					
1	Video Lecture on “Power of focus for student”	Mr. Sandeep maheshwari	27/07/15	2 hour	S.E.(20)
2	Seminar on “ANTI COLLISION DEVICE” by	Mr. S. N. Todkar	01/08/15	3 hour	B.E.(64)
3	Workshop on “PLC & SCADA” by	Prolific Systems Pvt. Ltd	21/08/15 - 24/08/15	4 DAYS	TE & BE(40)
4	10 days Workshop on “CCNA”	ACIT ,Mumbai	30/08/15-31/10/15	10DAYS	TE & BE-(33)
5	Workshop on “LINUX and PYTHON Programming”	Free and Open Source Software(FOSS)	09/09/15-10/09/15	2 DAYS	SE-(20)
6	Workshop on “EMBEDDED Systems”	Mr. Sharad Tiwari , Mastrex Technologies Pvt. Ltd	25/09/15-26/09/15	2 DAYS	BE

7	Workshop on “MATLAB based Robotics”	Robo edutech Pvt. Ltd in association with IIT Bhubaneswar	02/10/15-03/10/15	2 DAYS	SE,TE,BE -(49)
8	One day Seminar on "Industrial Automation "	TAACT, Nashik	06/10/15	4 HOUR	SE,TE,BE
9	Interaction of ,Owner, ACIT Mahim with participants of CCNA Workshop	Mr. Rohit Pardasani	07/10/15	2 HOUR	TE & BE
10	Seminar on “Cyber and Mobile Security”	Mr. Nishant Sharma ,Microsoft Technologies	02/02/16	2 HOUR	TE
Academic Year: 2014-15					
1	iSensobotz	ARK Technosolutions , Mumbai	13/03/15-14/03/15	2 days	T.E.&B.E
Academic Year: 2013-14					
1	PCB Designing	Dr. R. N. Duche	07/04/13	1 day	S.E.&T.E. -(65)
Academic Year: 2012-13					
1	iMacBOTZ	ARK Technosolutions , Mumbai	08/03/13-09/03/13	2 days	T.E. & B.E.

1) BIG Data & Hadoop by Mr. Amit Koli (Senior Hadoop System Administrator, Trigent Tech. Bangalore):

Mr. Amit Koli, the Alumni of EXTC department is working on Big Data Analysis and has a good experience in the same sector and opportunities to work abroad also. He shared his knowledge for continuous 6 hours interaction with students.

2) IIT Bombay projects by Mr. Rohan Kharade (Project Asst.IIT Bombay):

Mr. Rohan Kharade is the alumni of EXTC department. He is working as Project Asst. in IIT Bombay. He delivered a seminar on networking based projects as well as given some ideas to T.E. and B.E. students for their projects & shared some experiences in IIT Bombay. The main objective of this seminar was to make the students aware about doing the projects which is beneficial for their continuous learning.

3) Aptitude Training by Mr. Mandar Zarekar, Mudra Career Guidance, Mumbai:

The requirement of current jobs is to have an excellent aptitude skill. In the same session, students were introduced various aptitude skills and the training regarding the same is provided.

4) Video Lecture on “Power of focus for student” by Mr. Sandeep Maheshwari:

There is no limit to the power of the human mind. The mind is just like a shining sun which can produce fire, provided its energies are focused and directed towards a single point. Mr. Sandeep Maheshwari is a name among millions who struggled, failed and surged ahead in search of success, happiness and contentment. Just like any middle class guy, he too had a bunch of unclear dreams and a blurred vision of his goals in life. All he had was an undying learning attitude to hold on to. Rowing through ups and downs, it was time that taught him the true meaning of his life. The same inspiration was given by him in this session. The inspirational videos of Sandip Maheshwari are shown to the students for their betterment.

5) Seminar on “ANTI COLLISION DEVICE (ACD)” by Mr. S. N. Todkar:

The seminar was conducted by Mr. S. N. Todkar, Regional Manager (Konkan Railway Ratnagiri). A team of Konkan railway produced The Anti-collision device in 90 days which is based on radio communication, Microprocessor and Global Positioning System (GPS Technology). The ACD Network is a Train Collision prevention system invented by Mr. Rajaram Bojji and patented by Konkan Railway Corporation Limited (a public-sector undertaking of the Ministry of Railways, Government of India).

6) Workshop on “PLC & SCADA” by Mr. Asrar Khan & Mr. Shailesh Choudhar, Prolific Systems Pvt. Ltd:-

Prolific is a part of Kuwait’s based company “Al Tanmiya Holding”. Prolific is the only ISO 9001-2008 & 14001-2004 certified company in automation training. Prolific is having International Accredited Organization (IAO). Prolific is conducting many training programs under National Skill development Certification (NSDC) approved by Govt. of India. The workshop

was conducted by experts from “Prolific Systems & Technologies Pvt. Ltd, Pune” under NSDC (National Skill Development Corporation) programme. The objective of workshop is to make aware the student about the role of PLC and SCADA in automation industries.

7) Certification course on “CCNA” by Mr. Zubair Qureshi & Mr. Avanendra Bhargav, ACIT, Mumbai:

The training was conducted by ACIT, Mahim. The training covered various aspects of networking. They provide placement assistance & have experienced trainers with CCNA and CCDA certification. The training was conducted on Sunday and Monday of every week (10 days). Total 37 students of TE and BE were participated.

8) Workshop on “LINUX and PYTHON Programming” by Ms. Sayali Yewale, Free and Open Source Software (FOSS):

EXTC department organized the workshop on “Free & Open Source Software (FOSS) - Linux & Python” for institute students. The workshop was sponsored by “WEB WESTIN INDIA, PUNE”. It covered the basic needs of using open source softwares and its importance in industries.

9) Workshop on “EMBEDDED Systems” by Mr. Sharad Tiwari, Mastrex Technologies Pvt. Ltd., Allahabad:

Mr. Sharad Tiwari, the alumni of EXTC department, worked as junior research fellow in DRDO. He delivered the workshop on the introduction of Embedded Systems and its usage in practical applications.

10) Workshop on “MATABOTRICS” by Mr. Akash Kumar, Robo edutech Pvt. Ltd in association with IIT Bhubaneswar:

Robo Edutech India Pvt. Ltd organizes Robotics Workshops for engineering students. The workshop was designed to help students to interface the Robot with MATLAB and provide real time industry exposure.

11) One day Seminar on “Industrial Automation” by Mr. Mahesh Rasal, TAACT:-

Teknocrat’s Academy of Automation and Control Technology (TAACT) is a member of Technocrat’s group of industries which works in the field of industrial automation since 1993. The activities of TAACT include Training to fresh engineers with degree or diploma in Electronics, E&TC, Electrical, Mechanical and Instrumentation engineering. They provide trained automation engineers to industries. The contents of the seminar were the recent trends in current updates of automation, requirements of industries and skills set required for students.

12) Interaction with Mr. Rohit Pardasani, Owner, ACIT Mahim:-

Mr. Rohit Pardasani, Chief Consultant Instructor for Cisco Systems and ACIT Education Pvt. Ltd. Mumbai Area, India, had an interaction with our students about the importance of CISCO certification courses in networking industries. The students got really inspired by his story of life to get success.

13) Seminar on “Cyber and Mobile Security”, by Mr. Nishant Sharma, Microsoft Technologies:-

Mr. Nishant Sharma discussed the issues related to cybercrime and aspects of security of mobile. He also discussed different protocols used in security purpose and company requirements for fresher engineer.

14) “iSensobotz”, by ARK Technosolutions, Mumbai:-

iSensobotz – “experiencing science and technology through fun way of robotics” is a workshop especially conducted to build autonomous robot with and without using Microcontroller. Participants were able to apply the concepts studied in the 1st and 2nd year of Engineering. It’s an exciting way to build autonomous robot by applying basic concepts.

15) PCB Designing by Dr. R. N. Duche:-

A printed circuit board (PCB) mechanically supports and electrically connects electronic components using conductive tracks, pads and other features etched from copper sheets laminated onto a non-conductive substrate. The objective was to understand the design steps of making PCB.

16) “iMacBOTZ”, Mr. Ritesh Shah, ARK Technosolutions, Mumbai.

"iMacBOTZ – Robotics made easy" is a workshop especially conducted for young technical minds and robotics enthusiasts of all disciplines. It covers all aspects of wired controlled Robotics, wireless robotics using RF, PC controlled robotics, and speech controlled robotics using visual basics.

Internal Experts:-

In addition with external experts, our internal faculties also deliver seminars on recent topics useful for student’s progression.

Sr. No	Resource Person	Topic	Date	Targeted students FE /SE /TE /BE
Academic Year 2016-17				
1	Prof. Tathare S. S.	IBPS IT Officer Training	13/02/17	BE EXTC & BE COMP(50)
2	Profs. Gajmal K. M	Java Expert Lecture	14/02/17 &	BE(30)

			15/02/17	
3	Prof. Khandke M. A.	C++ Expert Lecture	15/02/17	BE(30)
4	Mr.Patel B.N	NPTEL	19 July 2016	S.E./T.E.(45)
5	Mrs.Sadvilkar S.	Time Management	26 July 2016	T.E. (37)
6	Mrs.Sadvilkar S.	Time Management	08Aug2016	B.E.(26)
Academic Year 2015-16				
1	Prof. Tathare S.S.	How to make Review paper	14/07/15	T.E/B.E.
2	Prof. Khedekar S.R. & Prof. Munghate S.C.	Benefits of using Reference book for learning process	24/08/15	S.E./T.E./B.E
3	Prof. Oak P.V.	How to make Synopsis	07/09/15	S.E.
4	EXTC dept.	Electronic Technology in Product base learning	19/01/15	S.E.
5	Prof. Latkar S.D.	How to study and write exam paper	23/02/16	S.E./T.E./B.E.
Academic Year 2014-15				
1	Mr. Vinod K.G	Soft skill Development Skills	11/08/14	B.E.
Academic Year 2013-14				
1	Prof. Itapawar T.L.	Banking Awareness	22/01/14	B.E.
2	Prof. Itapawar T.L.	Banking awareness	24/01/14	B.E.

3	Prof. Itapawar T.L.	Banking Awareness	29/01/14	B.E.
4	Prof. Itapawar T.L.	Banking Awareness	05/02/14	B.E.

33. Teaching methods adopted to improve student learning:

The Teaching and Learning Process is a heart of the programme. The different teaching methods are adopted for improving student learning as listed below:-

Lecture (LT)

Lectures are used to convey critical information, history, background, theories, and equations in oral, written or visual presentation. Department uses various teaching aids to deliver lectures in classroom. We have total 3 class rooms. These facilities are used by faculties to deliver their lectures.

Digital classroom in the department is equipped with the facilities of fixed LCD projector, screen, black board, multimedia speakers and internet facility. Other classrooms have movable LCD projector and OHP projector, fixed projector screen for presentation and chalk and board.



Laboratory Session (LS):-

The objective of laboratory session is to give the practical knowledge of the course. The laboratory manual of the courses conducted in various laboratories is designed by faculty members. The laboratory plan gets displayed in laboratory in advance before the start of term, so that students will be aware about the practicals, they have to perform. To achieve this objective, department is has ten specialized laboratories. The name of laboratories is as follows:

1. Advanced Communication Lab
2. Telecommunication and Networking Lab
3. Communication Lab
4. Electronics Design Lab.
5. Project and Simulation Lab

6. Software Lab
7. New Software Lab
8. Industrial Electronics (PCB Design) Lab
9. Basic Electrical Engineering Lab
10. Communication Engineering Lab

The various labs are having advanced equipments like, Vector Network Analyzer, Digital Storage Oscilloscope (DSO), Function Generator, Spectrum Analyzer, Universal programmer, Microwave test bench, 60 computers with various licensed softwares like, Matlab (50 licenses), SPJ (10 Licenses), Tina (10 Licenses), Microwind (10 Licenses), Proteus VSM (25 Licenses), MultiSim (10 Licenses), Active HDL (5 licenses).

To perform the simulation based practicals every student works individually on separate computer. The group of 4 students performs the practicals on hardware. To develop the design capability of the student, the department has the facility of PCB designing software and manufacturing laboratory.



Group Discussion (GD)

A group discussion aims at a structured but informal exchange of knowledge, ideas, and perceptions among the participants on any issue, topic or subtopic. The main objective of group discussion is to,

- Produce a range of options or solutions, addressing a particular problem or an issue.
- Develop their skills in interpersonal communication and in expressing their views in a clear and brief manner. To achieve these objectives, department organizes group discussion in classroom by giving various current topics.



Seminar (SM)

Seminar is a course requirement wherein under the guidance of a faculty member a student is expected to do an in-depth study in a specialized area by doing literature survey, understanding different aspects of the problem and arriving at a status report in that area. While doing a seminar work, the student is expected to learn investigation methodologies, study relevant research papers, correlate work of various authors/researchers critically, study concepts, techniques, prevailing results etc., analyze it and present a seminar report. It is mandatory to give a seminar presentation before a panel constituted for the purpose. The grading is done on the basis of the depth of the work done, understanding of the problem, report and presentation by the student concerned.

The various technical topics are given to the students and asked to prepare presentation in front of panel of faculties.

To enhance the technical knowledge and presentation skill through seminar, department organizes different seminars of expert faculties from eminent organizations and institutes, The seminar topics are like robotics,

industry sponsored projects, embedded systems, networking, how to write technical papers, etc.



Industrial Visit

As a part of curriculum requirement and to provide the exposure about the current technology in the field of Electronics and Telecommunication, department organises industrial visit. The main objective of industrial visit is to provide practical knowledge about the recent technology adopted in industry.

34. Participation in institutional social responsibility (ISR) and extension activities:

Ref. No.	Activity	Academic Year	No. of students involved
1	NSS	2016-17	11
		2015-16	15
		2014-15	13
		2013-14	09
2	Tree Plantation	2016-17	11
		2015-16	13
		2014-15	13
		2013-14	07

3	Blood Donation	2016-17	15
		2015-16	15
		2014-15	13
		2013-14	07
4	Street Play	2015-16	15
		2014-15	26
		2013-14	24
5	Maitri Sangh	2016-17	02
		2015-16	02
		2014-15	02
		2013-14	02
6	Swachh Bharat Abhiyan	2016-17	11
		2015-16	10

1. **NSS:** Students of EXTC from Third Year and Second Year actively participate in the NSS camp organised at rural area near to the college by NSS Chairperson of GIT. They enjoy the experience of living in Konkan rural part and understand their culture, challenges. Most of the students from city like Mumbai get benefit of going through the real Indian culture by participating in such a camp.

2. **Tree Plantation:** EXTC students play the role of good citizen by tree plantation and its maintenance. The event helps to spread “Go Green” concept and make the people aware about the environmental aspects.

3. **Blood Donation:** The social responsibility and scientific advantage of donating the blood gets the EXTC students fresh and fit. The donation also gives the satisfaction of helping the needy.

4. **Street Play:** On every occasion of 15th August or 26th January or special day, EXTC students show their talent in active thinking and presentation through street Play.

EXTC students stood first for consecutive three years in Street Play Competition organized at institute campus in pre-gathering.



5. Maitri Sangh: E&TC students get actively involved in social activities especially for poor students of nearby schools to help them. The encouragement is done by the required stationary distribution to 50 Scholar students of Vishvanath Vidyalaya Level. The essential stationary distribution is done among 50 Scholar students in Kendriya adarsha Vidyalaya Level.



6. **Swachh-Bharat Abhiyan:** E&TC students participated in Swachh-Bharat abhiyan with full of energy and motivation.



35. SWOC analysis of the department and future plans:

Following Example is given for SWOC analysis for reference and guidance:

Strengths: ● Progressive academic environment ● Outcome-Based teaching-learning process ● Organizing different workshops improves employability ● Good Industry-institute interaction ● Placement progression ● Advanced Teaching-Learning methods are used ● Technology Revolution Program bridges the gap between degree and diploma colleges	Challenges: ● Industries not ready to come for campus interviews, since the institute is in rural area. ● Variation in the admissions, due to change in demand from industry ● Lack of latest technologies in the syllabus
Opportunities: ● Alumni at very nice position in industries ● Enthusiastic and sincere faculty ● Foreign investments in the Electronics manufacturing sector are increasing	Weaknesses: ● Less Research Activities ● Lack of competitive exam awareness in students ● Post of Professor is vacant

FUTURE PLAN

- To apply for major/minor research projects to various governmental research agencies
- To enhance the services for consultancy
- To boost research and development activities
- To create an environment of entrepreneurship among the students.

Evaluation Report of the Department

Department of Applied Sciences and Humanities

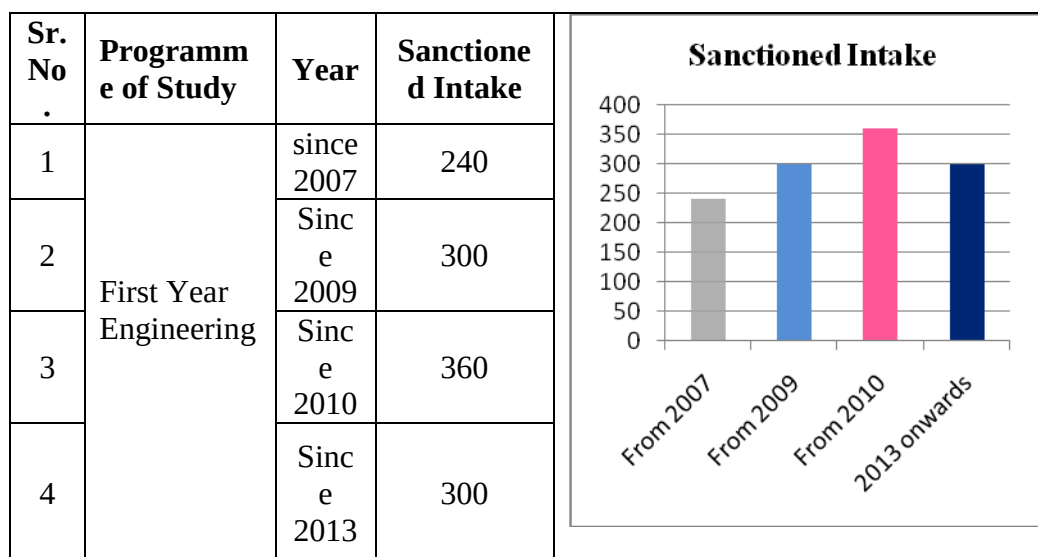
(Coordinator of First Year Engineering)

1. Name of the department: Applied Sciences and Humanities

2. Year of establishment: 2007-08

3. Names of programmes / courses offered: Undergraduate.

To fulfil the technical needs of society and industry, Gharda Foundation established Gharda Institute of Technology at Lavel in 2007 with Under Graduation programmes as Chemical Engineering (60), Computer Engineering (60), Mechanical Engineering (60) and Information Technology (60). Later on, in 2009 and 2010 the institute added Electronics and telecommunication Engineering (60) and civil Engineering (60) programmes respectively.



4. Names of interdisciplinary courses and the departments/units involved:

The Department of Applied Sciences and Humanities has various courses which need the teaching from the specialized faculties of respective programmes.

Academic Year: 2016-17

Sr. No.	Specialised Faculty from Respective Programmes	Semester	Courses taught
1	Mechanical Engineering.	I	Engineering Mechanics (FEC104)
		I	Basic Workshop Practices-I (FEL101)
2	Electronics & Telecommunication	I	Basic Workshop Practices-I (FEL101)
		I	Basic Electrical & Electronics Engineering (FEC105)
3	Mechanical Engineering.	II	Engineering Drawing (FEC204)
		II	Basic Workshop Practices-II (FEL201)
4	Computer Engineering.	II	Structured Programming Approach (FEC205)
5	Civil Engineering	II	Engineering Drawing (FEC204)

Academic Year: 2015-16

Sr. No.	Specialised Faculty from Respective Programmes	Semester	Courses taught
1	Mechanical Engineering.	I	Engineering Mechanics (FEC104)
		I	Basic Workshop Practices-I (FEL101)
2	Electronics & Telecommunication	I	Basic Electrical & Electronics Engineering (FEC105)
3	Mechanical Engineering.	II	Engineering Drawing (FEC204)
		II	Basic Workshop Practices-II (FEL201)
4	Computer Engineering.	II	Structured Programming Approach (FEC205)

Academic Year: 2014-15

Sr. No.	Specialised Faculty from Respective Programmes	Semester	Courses taught
1	Mechanical Engineering.	I	Engineering Mechanics (FEC104)
		I	Basic Workshop Practices-I (FEL101)
2	Electronics & Telecommunication	I	Basic Electrical & Electronics Engineering (FEC105)
3	Mechanical Engineering.	II	Engineering Drawing (FEC204)
		II	Basic Workshop Practices-II (FEL201)
4	Computer Engineering.	II	Structured Programming Approach (FEC205)

Academic Year: 2013-14

Sr. No.	Specialised Faculty from Respective Programmes	Semester	Courses taught
1	Mechanical Engineering.	I	Engineering Mechanics (FEC104)
		I	Basic Workshop Practices-I (FEL101)
2	Electronics & Telecommunication	I	Basic Electrical & Electronics Engineering (FEC105)
3	Mechanical Engineering.	II	Engineering Drawing (FEC204)
		II	Basic Workshop Practices-II (FEL201)
4	Computer Engineering.	II	Structured Programming Approach (FEC205)

5. Annual/ semester/choice based credit system (programme wise):

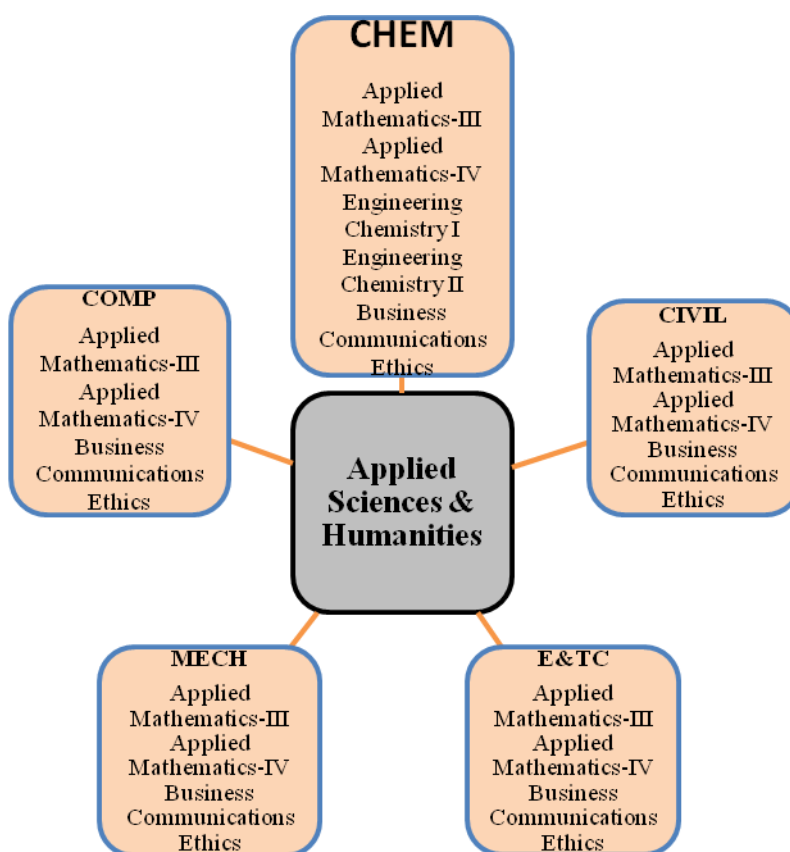
From 2007 to 2012 Semester pattern system was in the practice. Since 2012 University of Mumbai introduced Credit Based Grading System (CBGS).

Sr. No.	Programme of Study	Type of System
1.	First Year Engineering.	Semester pattern (from 2007 to 2012)
2.	First Year Engineering.	CBGS (From 2012 to 2016) -
3.	First Year Engineering.	CBCGS (Since 2016)

6. Participation of the department in the courses offered by other departments:

All the programmes like Chemical Engineering, Computer Engineering, Mechanical Engineering, Electronics and telecommunication Engineering and civil Engineering need the faculties from Applied Sciences and Humanities to teach some courses i.e. Mathematics, Chemistry and Communication Skills.

The following diagram depicts the contribution of the department in other programmes.



Academic Year 2016-17

Sr. No.	Department	Year (FE/SE/TE/BE)	Semester	Course
1	Mechanical Engineering	SE	III	Applied Mathematics III (MEC301)
2			IV	Applied Mathematics IV (MEC401)
3		TE	V	Business Communication &

				Ethics (MEL501)
4	Chemical Engineering	SE	III	Applied Mathematics III (CHC301)
5			IV	Applied Mathematics IV (CHC401)
6			III	Engineering Chemistry I (CHC302)
7			IV	Engineering Chemistry II (CHC402)
8		TE	V	Business Communication & Ethics (CHC506)
9	Computer Engineering	SE	III	Applied Mathematics III (CSC301)
10			IV	Applied Mathematics IV (CSC401)
11		TE	V	Business Communication & Ethics (CSC506)
12	Electronics & Tele-Communication	SE	III	Applied Mathematics III (ETS301)
13			IV	Applied Mathematics IV (ETS401)
14		TE	V	Business Communication & Ethics (ETS506)
15	Civil Engineering	SE	III	Applied Mathematics III (CEC301)
16			IV	Applied Mathematics IV (CEC401)
17		TE	V	Business Communication & Ethics (CEC506)

Academic Year 2015-16

Sr. No.	Department	Year (FE/SE/TE/BE)	Semester	Course
1	Mechanical Engineering	SE	III	Applied Mathematics III (MEC301)
2			IV	Applied Mathematics IV (MEC401)

3		TE	V	Business Communication & Ethics (MEL501)
4	Chemical Engineering	SE	III	Applied Mathematics III (CHC301)
5			IV	Applied Mathematics IV (CHC401)
6			III	Engineering Chemistry I (CHC302)
7			IV	Engineering Chemistry II (CHC402)
8		TE	V	Business Communication & Ethics (CHC506)
9	Computer Engineering	SE	III	Applied Mathematics III (CSC301)
10			IV	Applied Mathematics IV (CSC401)
11		TE	V	Business Communication & Ethics (CSC506)
12	Electronics & Tele-Communication	SE	III	Applied Mathematics III (ETS301)
13			IV	Applied Mathematics IV (ETS401)
14		TE	V	Business Communication & Ethics (ETS506)
15	Civil Engineering	SE	III	Applied Mathematics III (CEC301)
16			IV	Applied Mathematics IV (CEC401)
17		TE	V	Business Communication & Ethics (CEC506)

Academic Year 2014-15

Sr. No.	Department	Year (FE/SE/TE/BE)	Semester	Course
1	Mechanical Engineering	SE	III	Applied Mathematics III (MEC301)
2			IV	Applied Mathematics IV (MEC401)
3		TE	V	Business Communication & Ethics (MEL501)
4	Chemical Engineering	SE	III	Applied Mathematics III (CHC301)
5			IV	Applied Mathematics IV (CHC401)
6			III	Engineering Chemistry I (CHC302)
				Computer Programming And Numerical Approach (CHC304)
7			IV	Engineering Chemistry II (CHC402)
8		TE	V	Business Communication & Ethics (CHC506)
9	Computer Engineering	SE	III	Applied Mathematics III (CSC301)
10			IV	Applied Mathematics IV (CSC401)
11		TE	V	Business Communication & Ethics (CSC502)
12	Electronics & Tele-Communication	SE	III	Applied Mathematics III (ETS301)
13			IV	Applied Mathematics IV (ETS401)
14		TE	V	Business Communication & Ethics (ETS506)
15	Civil Engineering	SE	III	Applied Mathematics III (CEC301)

Sr. No.	Department	Year (FE/SE/TE/BE)	Semester	Course
16			IV	Applied Mathematics IV (CEC401)
17		TE	V	Business Communication & Ethics (CEC506)

Academic Year 2013-14

Sr. No.	Department	Year (FE/SE/TE/BE)	Semester	Course
1	Mechanical Engineering	SE	III	Bridge Course
2			III	Applied Mathematics III (MEC301)
3			IV	Applied Mathematics IV (MEC401)
4	Chemical Engineering	SE	III	Bridge Course
5			III	Applied Mathematics III (CHC301)
6			IV	Applied Mathematics IV (CHC401)
7			III	Engineering Chemistry I (CHC302)
8			IV	Engineering Chemistry II (CHC402)
9	Computer Engineering	SE	III	Bridge Course
10			III	Applied Mathematics III (CSC301)
11			IV	Applied Mathematics IV (CSC401)
12	Electronics & Tele-Communication	SE	III	Bridge Course
13			III	Applied Mathematics III (ETS301)
14			IV	Applied Mathematics IV (ETS401)
15	Civil Engineering	SE	III	Bridge Course
16			III	Applied Mathematics III (CEC301)
17			IV	Applied Mathematics IV (CEC401)

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

Collaborated Institute/Industry Course Conducted/Contribution

To update student's technical knowledge, Institute has organized various training programmes with the collaboration with industries. Institute has conducted practicals of various courses of Yashasvi Institute in the Institute itself by using the available infrastructure.

Academic Year 2015-16

Sr. No.	Organization	Course	Participants
1	Dalvik Apps, Kalyan Dist. Thane. 	Android Application Development workshop	First Year students
2	Yashasvi Institute of Technology, Pune 	Chemistry, Physics, BEE, Engineering Mechanics, Computer	Students of Yashasvi Institute of Technology

Academic Year 2014-15

Sr. No.	Organization	Course	Participants
1	Dalvik Apps, Kalyan Dist. Thane. 	Android Application Development workshop	First Year students
2	Yashasvi Institute of Technology, Pune 	Chemistry, Physics, BEE, Engineering Mechanics, Computer	Students of Yashasvi Institute of Technology

8. Details of courses/programmes discontinued (if any) with reasons:

As per the changes in the demand of industry, the need of updation of courses and change in professional scenario Institute discontinued certain courses and updated them.

Sr. No	Name of course	Year of Discontinue	Semester	Reasons
1	Applied Mathematics-I (FEC101)	2016-17	I	Course is revised as per the requirement of various programmes of Engineering
2	Applied Physics- I (FEC102)		I	Contents revised as per the need of higher studies
3	Applied Chemistry- I (FEC103)		I	Contents revised as per the need of higher studies
4	Engineering Mechanics (FEC104)		I	Revised Content of course due to need of industrial demand
5	Basic Electrical and Electronics (FEC105)		I	Contents revised as per the need of higher studies
6	Environmental Studies (FEC106)		I	Revised Content of course due to need of industrial demand
7	Applied Mathematics-II (FEC201)		II	Course is revised as per the requirement of various programmes of Engineering
8	Applied Physics- II (FEC202)		II	Contents revised as per the need of higher studies
9	Applied Chemistry- II (FEC203)		II	Contents revised as per the need of higher studies
10	Engineering Drawing (FEC204)		II	Contents revised as per the need of higher studies
11	Structured Programming Approach (FEC205)		II	Course is revised as per the requirement of IT industries
12	Communication Skills		II	Revised contents of course as the need in the

	(FEC206)			improvement of business communication
13	Applied Mathematics-I	2012-13	I	Course is revised as per the requirement of various programmes of Engineering
14	Applied Physics- I		I	Contents revised as per the need of higher studies
15	Applied Chemistry- I		I	Contents revised as per the need of higher studies
16	Engineering Mechanics		I	Revised Content of course due to need of industrial demand
17	Basic Electrical and Electronics		I	Revised Content of course due to need of industrial demand
18	Computer Programming I		I	Revised Content of course due to need of industrial demand
19	Applied Mathematics-II		II	Course is revised as per the requirement of various programmes of Engineering
20	Applied Physics- II		II	Contents revised as per the need of higher studies
21	Applied Chemistry- II		II	Contents revised as per the need of higher studies
22	Computer Programming II		II	Revised Content of course due to need of industrial demand
23	Engineering Drawing		II	Contents revised as per the need of higher studies
24	Communication Skills		II	Contents revised as per the need of higher studies

9. Number of teaching posts:

Sr. No.	Designation	Sanctioned	Filled
1	Professor	0	0
2	Associate Professor	1	1
3	Assistant Professor	11	10

10. Faculty profile with name, qualification, designation, specialization:**Regular faculty list:**

S r. N o.	Name	Photo	Qualific ation	Designati on	Specializatio n	No of years of experien ce
1	Prof. B. S. Potdar		M. Sc.	Assistant Professor	Fractional Calculus, Functional Analysis	12
2	Prof. M. S. Satpute		M. Sc., M. Ed, Ph. D. (Pursuin g)	Associate Professor	Synthesis and Characterizati on, Organic Chemistry	22
3	Prof. S. K. Dhawale		M. Sc.	Assistant Professor	Physical Chemistry, Chemical Kinetics	11
4	Prof. M. N. Lahane		M. Sc.	Assistant Professor	Quantum Mechanics, Energy	11
5	Prof. P. S. Mhetre		M. Sc.	Assistant Professor	Support Vector Machine, Operational Research	7
7	Prof. C. S. Shinde		M. Sc., NET, Ph. D. (Pursuin g)	Assistant Professor	Energy, Battery Cells	7

6	Prof. S. S. Mane		M. A., Ph. D. (Pursuing)	Assistant Professor	English Language	7
8	Prof. S. H. Howal		M. Sc., NET, Ph. D. (Pursuing)	Assistant Professor	Nano-Crystalline Material, Organic Synthesis Polymer	4
9	Prof. N. A. Kolekar		M.A., SET, Ph. D. (Pursuing)	Assistant Professor	English Literature	8

Faculties from other departments shared by ASH

Sr. No.	Name	Photo	Qualification	Designation	Specialization	No of years of experience
1	Prof. Sameer S. Gajmal		M.E. (Production)	Assistant Professor	Production	12
2	Prof. Pravin N. Jadhav		M.E. (Machine Design)	Assistant Professor	Machine Design	6
3	Prof. Amey V. Phanse		M.E. (Design)	Assistant Professor	Design	2
4	Prof. Gadre M.S.		M.Tech. (E&TC)	Assistant Professor	Signal Processing, Electrical Circuits, Instrumentation	26

5	Prof. Muchande S.K.		M.E. Electrical (Ph. D. Pursuing)	Assistant Professor	Power Electronics & Drives, Electrical Circuits, Control Systems	9
6	Prof. Warak P. L.		M.E. (Control Systems)	Assistant Professor	Electrical (Control Systems), Electronic Devices and Circuits.	5
7	Ms. J.G.Borade		M.Tech .	Asst. Professor	Networking, Programming & Data Structure, Database, Discrete Mathematics	12
8	Prof. M.A. Khandke		M.Tech .	Asst. Professor	Programming & data Structure, Grid Computing, Computer Graphics, Operating System	7
9	Prof. R.B.Pawar		M.E.	Asst. Professor	Operating System, System Security, Open Source Technologies	7
10	Prof.D.N. Londhe		M.E.	Asst. Professor	Programming & Data Structure, Parallel Computing, Information Security, Automata Theory	8

11	Prof. A.D.Bhosale		M. Tech. PhD (pursui ng)	Asst. Prof	Structural Engineering, Engineering Mechanics.	20

Temporary/ADHOC faculty list:

Adhoc faculty is on account of confirmation of university approval.

Sr. No .	Name	Photo	Qualificatio n	Designatio n	Specializati on	No of years of experie nce
1	Prof. A. M. S. Tam be		M. Sc.	Assistant Professor	Operational Research	9 Years
2	Prof. S. S. Phata k		M. Sc.	Assistant Professor	Numerical Techniques	3 Years

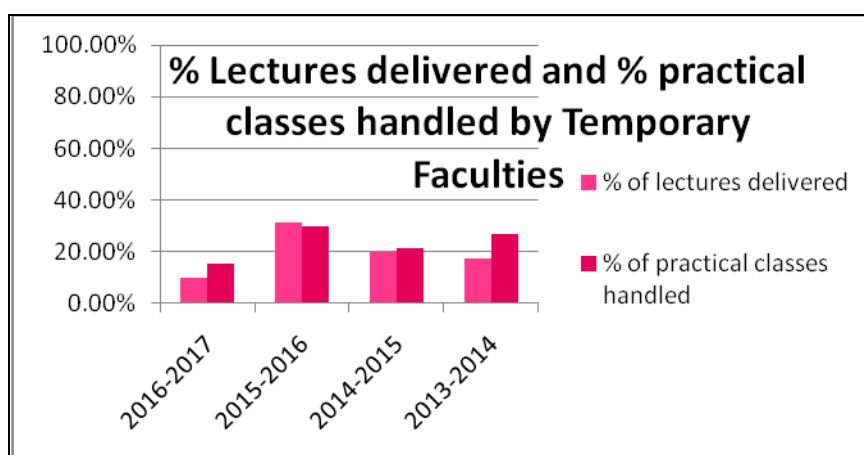
11. List of senior visiting faculty:

To bring students into the flow of employment recruitment process, first year engineering department appointed one senior visiting faculty in the academic year 2015-16.

Sr. No.	Name and Organization of Faculty	Topic	Academic Year
1	Prof. Anuradha Sonavane	Communication Skills and Business Communication	2015-16

12. Percentage of lectures delivered and practical classes handled (programme wise) by Temporary faculty:

Department of First Year Engineering	% of lectures delivered	% of practical classes handled
2016-2017	16.86%	20.11%
2015-2016	31.24%	29.92%
2014-2015	20.13%	21.16%
2013-2014	17.19%	26.90%



13. Student -teacher ratio: (Academic Year: 2016-17)

Student -teacher ratio = 220: 18
=12.22

14. Number of academic support staff (technical) and administrative staff; Sanctioned and filled:

	Sanctioned	Filled
Academic Support Staff (technical)	2	1
Administrative Staff	-	-

Note: Total 22 number of administrative staff and 60 number of house keeping staff are available in the institute and are shared by all departments.

Sr. No.	Name	Photo	Qualification	Designation	Specialization	No of years of experience
1	Mrs. S. R. Ghadge		M. Sc.	Laboratory Assistant	Chemistry	9 Years

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.:

Qualification	No. Of staff
Ph. D faculties	00
Ph. D pursuing faculty	05
PG faculty	11
UG faculty	00

16. Number of faculty with ongoing projects from funding agencies and grants received:

a) National

Sr. No.	Funding Agency	Name of Project	Grant Received
1	University of Mumbai	Exploration of Oxianionic Fe-Based Cathode Materials For Secondary Batteries	25000

The primary objective of the present project is to investigate the novel cathode materials for secondary lithium ion and sodium ion batteries in order to improve the performance of LIBs'. Throughout the research the importance will be given to improve the present lithium-ion technology, which provides greater energy density while maintaining low cost and also increases the safety. Li-ion and Na- ion technology is the most promising one with high energy density and safety. For these technologies India is dependent on countries like Japan, China and Korea (are the only countries with commercialized battery technology). So with this research proposal will contribute to develop Li-ion technology in our country.

b) International:

NA

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

NIL

18. Research centre /facility recognized by the university:

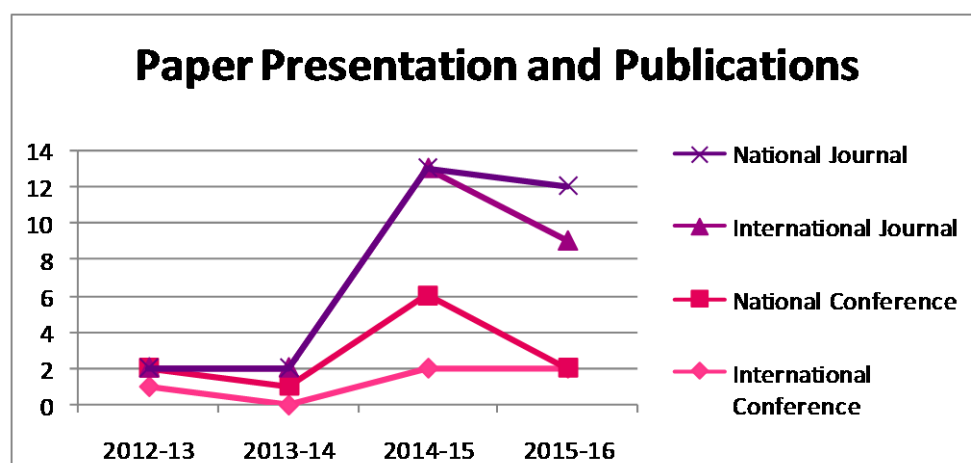
As GIT runs UG programs in Engineering, all facilities required for these programs are provided.

a) Publication per faculty:**Faculty publication details:**

To improve the research quality among the faculty members, institute empowers them to attend and actively participate in conferences and seminars. Various faculty members have participated in International and National Conferences and presented research papers. Some faculty members have published their papers in International and National Journals.

S · N ·	Name of the faculty	2012-13				2013-14				2014-15				2015-16				2016-17				T o t a l
		I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	I J	I C	N J	N C	
1	Prof. Mane S. S.									2			3	3	1		1					10
2	Prof. Kolekar N.A.													3			1					4
3	Prof. Patil S. G.									2				1								3
4	Prof. Satpute M. S.									1											1	2
5	Prof. Mhetre P. S.														1		1					2
6	Prof. Potdar B.				1				1				1							1		4

	S.																						
7	Prof. Muchande S. K.		1																				1
8	Prof. Gajmal S. S								2														2
9	Prof. Jadhav P. N.					1			2														3
Total			1		1	1			1	7	2		4	7	2		3				1		31



The above graph shows the continuous improvement in the research activities of the department

Sr. No .	Author/s	Name of Journal	Title of Paper	International Impact factor Services	Academic Year
1.	Prof. Mane S. S.	Research Scholar: An International Referred e-Journal of Literary Explorations	Myth and Homosexuality in Jeanette Winterson's organs are not the only Fruit	0.998	2015-16

		Research Journal of English Language and Literature (RJELAL) ISSN: 2321-3108	Teaching and Learning English in Indian Rural Classroom	5.002	2015-16
2	Prof. Patil S. G.	English for Specific Purpose World ISSN 1682-3257	English Language Needs Of Engineering Students And Their Syllabus: A Comparative Study Of Two Universities In Maharashtra	3.891	2014-15
3	Prof. Kolekar N. A.	Research Scholar: An International Referred e-Journal of Literary Explorations ISSN: 2320-6101	Depiction of Violence in David Adam Richards's <i>Mercy Among the Children</i>	0.998	2015-16
		Research Chronicler: International Multidisciplinary Research Journal ISSN 2347-5021	Depiction of Dissociative Identity Disorder in Indian Cinema	0.909	2015-16
		Daath Voyage: An International Journal of Interdisciplin	Communal Violence in Chetan Bhagat's <i>The Three</i>	1.941	2015-16

		ary Studies in English ISSN 2455-7544	<i>Mistakes of My Life</i>		
4	Prof. Satpute M. S.	International Journal of Chemical & Pharmaceutical Analysis ISSN: 2348-0726,	Synthesis and Antibacterial Activity Of Novel Caffeic Acid Hybrid Derivatives	5.949	2014-15
5	Prof. Jadhav P. N.	International Journal of Engineering Sciences & Research Technology, Vol.4, Issue 2	Magneto Rheological Conventional Breaks	4.116	2015-16
		International Journal of Latest Technology in Engineering, Management and Applied Science Vol.IV, Issue II	Dynamic analysis of plates with stiffeners	2.371	2014-15
	Prof. Jadhav P. N.	International Journal of Latest Trends in Engineering and Technology, Vol 3, Issue 1	Vibrational analysis of spot welded stiffeners	4.49	2013-14
6	Prof. Gajmal S. S.	International Journal of Latest Technology in Engineering, Management and Applied	Cost Reduction in File Manufacturing by using Special Purpose Resistance	2.115	2014-15

		Science Vol.IV, Issue II	heating: a case study		

List of patents awarded to faculties:

NIL

List of scientific/ technical books written by faculty members:

For the better understanding of course, some technical books are written by faculties for internal circulation only which are available in Central Library and Departmental Library

Sr. No.	Author/s Name	Title of Books	Details
1	Prof. B. S. Potdar	Applied Mathematics	Useful for students of All Engineering disciplines
	Prof. P. S. Mhetre		
	Prof. A. M. S.Tambe		
	Prof. S. S. Phatak		
2	Prof. M. S. Satpute	Practical Handbook For Applied Chemistry – I & II	Useful for first Year students
	Prof. S. K. Dhawale		
	Prof. S. A. Howal		
3	Prof. S. K. Dhawale	Engineering Chemistry	Useful for Chemical Engineering students
4	Prof. S. A. Howal	A Text Book on Engineering Chemistry I & II	Useful for first Year students
5		A Practical Handbook for Engineering Chemistry	Useful for Chemical Engineering students
6	Prof. M. S. Satpute	Applied Chemistry-I& II	Useful for first Year students
7	Prof. C. S. Shinde	A Text Book on Applied Physics-I & II	Useful for first Year students
8	Prof. S. S. Mane	Soft Skills For Engineers	Useful for students of All

			Engineering disciplines
9	Prof. N. A. Kolekar	Effective Communication Skills for Engineers	Useful for students of All Engineering disciplines
10	Prof. M. N. Lahane	Applied Physics - I	Useful for students of All Engineering disciplines

20. Areas of consultancy and income generated:

Sr. No.	Seminars/Conferences/Workshops Organized	Academic Year	Income generated
1	Dalvik Apps, Kalyan. Dist-Thane.	2015-16	52,160/-
2	Technical Communication	2015-16	13,000/-
3	Dalvik Apps, Kalyan. Dist-Thane.	2014-15	19,000/-
4	Spoken English & Personality Development for working women.	2014-15	13,300/-
TOTAL			97,460/-

21. Faculty as members in

a) National committees b) International committees c) Editorial boards

NIL

22. Student projects:

- g) Percentage of students who have done in-house projects including interdepartmental /programme: NA
- h) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies: NA

23. Awards / Recognitions received by faculty and students:

Number of students from first year engineering participated in various events organized by the department and secured prestigious positions in such competitions.

Sr. No.	Year	Name of Student	Awards/Recognition
1	2015-16	Mast. Chandokar Prathemsh Mast. Akash Tambe Mr. Varnmali Krutika Mr. Jyoti Pawar	1 st rank in project presentation
		Mast. Chalke Omkar Mast. Jhadhav Vaibhav	1 st rank in poster presentation
		Mast. Shawaf Dalwai	1 st rank in Seminar
		Mr. Shivani Sambre	1 st rank in handwriting Competition
		Mast. Amit Pendenekar	Winner Essay writing Competition
2	2014-15	Mr. Akshta Tambe Mr. Komal Dicholkar	1 st prize in Carom
		Mr. Gauri Kadam	Winner In SHOT PUT
		Mr. Manali Jagushte Mr. Pooja Mokal	1 st rank in poster presentation
		Mast. Tanveer Kadvilakr Mast. Somanath Sawant Mast. Hritik Phatak Mast. Chirag Haldankar	1 st rank in project presentation
		Mast. Shubham Thakur	1 st rank in Seminar
		Mr. Sukeshini Kamble	Winner in Poem competition
		Mr. Suresh Sangave	1 st prize in chess
3	2013-14	Mr. Purva Vavekar	1 st prize in chess
		Mast. Mithesh Bhanushali	Winner Essay writing Competition
		Mr. Vrunda Kadam	1 st in Elocution Competition

24. List of eminent academicians and scientists / visitors to the department:

Sr. No.	Name of the Person	Designation	Place of Work	Purpose of Visit
1.	Dr. J. J. Kadam	Professor	Bharti Vidyapeeth College of Engineering	To evaluate the Project & Posters in Technical Festival, SHODH 2015.
2.	Dr. Shantanu Chakraborty	Senior Technologist	Tata Steel, Kolkata	Visitor for projects in SHODH 2016
3.	Dr. Milind Malshe	Professor	IIT, Bombay	Workshop on Effective Communication (for all GIT staff)
4.	Dr. Shantanu Chakraborty	Senior Technologist	Tata Steel, Kolkata	Outcome Based Teaching
5.	Dr. A. B. Marathe	Principal	HPSM, Amravati	Innovation over Inventions

25. Seminars/ conferences/workshops organized & the source of funding
a) National b) International:

Academic Year 2015-16

Sr. No.	Seminars/ Conferences/Workshops Organized	Benefit	Source of Funding
1.	Pedagogy for Effective use of ICT in Engineering Education (5 th Jan to 21 th Jan 2015)	Helps to improve teaching methodology	Ministry of Human Resource Development
2	Engineering Physics (7 th Sept to 11 th Sept 2015)	For course enrichment	Ministry of Human Resource Development
3	Technical Communication (30 th Nov to 5 th Dec 2015)	Helps to upgrade technical and business communication skill.	Ministry of Human Resource Development
4	Workshop on Effective Verbal Communication (17 th Jan to 18 th Jan 2015)	Helps to upgrade communication skills of faculties.	Self Sponsored

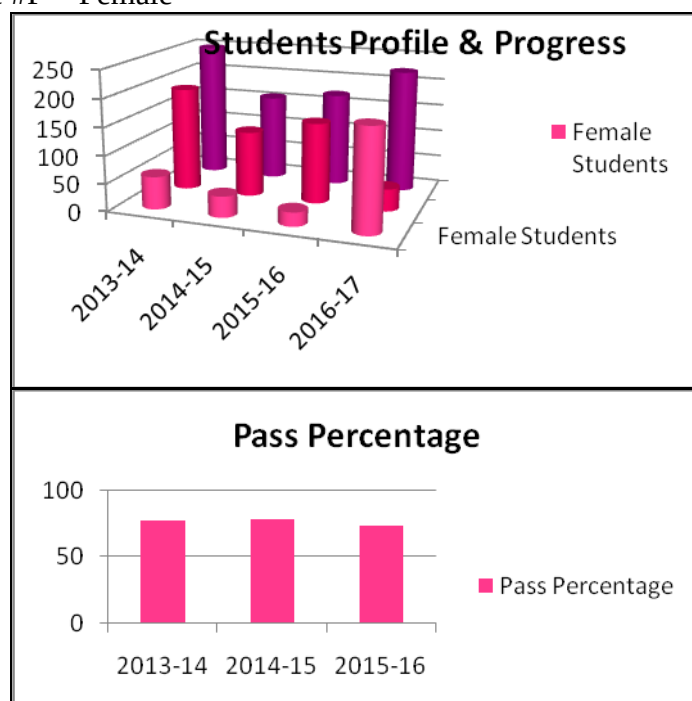
Academic Year: 2014-15

Sr. No.	Seminars/ Conferences/Workshops Organized	Source of Funding
1	Spoken English & Personality Development for working women. (2 nd Feb to 6 th Feb 2015)	Self Sponsored

26. Student profile programme/course wise:

Academic Year	Applications received	Selected	Enrolled		Pass Percentage
			*M	#F	
2016-17	294	220	183	37	In Process
2015-16	218	171	146	25	73.6842
2014-15	202	157	119	38	78.3439
2013-14	292	248	189	59	77.0161

* M = Male #F = Female



27. Diversity of students:

Department: First Year Engineering			
Academic Year	% of students from the same state	% of students from other states	% of students from abroad
2016-17	97.75%	2.24%	0%
2015-16	96.5%	3.5%	0%
2014-15	96.8	3.2%	0%
2013-14	98%	2%	0%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?

NA

29. Student progression:

NA

30. Details of infrastructural facilities:**a) Departmental library:**

1. Area of the library (in Sq. Mts.): 12 Sq. meters
2. Seating capacity: 10 Students
3. Library holdings:

Library Holdings	No. of Titles	No. of Volumes
Books	214	224
Journals/periodicals	8	Placed at Central Library
Newspapers	13	Placed at Central Library
E-resources	2	Available in Central Library

b) Internet facilities for staff & students:

- 1) ISP – BSNL
- 2) Leased line: 30 & 4Mbps
- 3) Compression ratio 1:1
- 4) Wi-Fi facility: Yes
- 5) Firewall: Cyber Roam

i) Class rooms with ICT facility:

S.N.	Room Description	Usage	Size in (sq. mtr)	Capacity	Rooms Equipped with
1	B1-15	Digital classroom	99.00 sq. mtr	70 students	Fixed LCD projector, Projector Screen, Speakers, Wi-Fi, Presenter, Green Board, CCTV, Fixed OHP with table
2	B-10	Digital classroom	99.00 sq. mtr	70 students	Movable LCD projector, Wi-Fi, Presenter, Green Board, CCTV, Fixed OHP with table
3	B-11	Digital classroom	99.00 sq. mtr	70 students	Movable LCD projector, Wi-Fi, Presenter, Green Board, CCTV, Fixed OHP with table
4	B-12	Digital classroom	99.00 sq. mtr	70 students	Movable LCD projector, Wi-Fi, Presenter, Green Board, CCTV, Fixed OHP with table
5	B1-16	Digital classroom	99.00 sq. mtr	70 students	Movable LCD projector, Wi-Fi, Presenter, Green Board, CCTV, Fixed OHP with table

d) Laboratories:

Lab No	Curriculum Lab Description	Use Exclusive/ Shared	Space (Sq. m)	Lab In charge	Investment
1.	Physics Lab	Exclusive	60	Mr. Shinde C. S.	Rs.9,36,421/-
2.	Chemistry Lab	Shared	169	Mr. Howal S. A.	Rs. 4,98,488/-
3.	Language Laboratory	Shared	90	Mr. Mane S. S.	Rs.5,90,050/-
4.	Basic Electrical and Electronics	Exclusive	123	Mr. Muchande S. K.	Rs.7,78,045/-
5.	Engineering Mechanics	Exclusive	92	Mr. Khalkar V. R.	Rs.1,16,455/-
6.	Drawing Hall	Shared	199	Mr. Phanase A. V.	Rs. 1,95,495/-
7.	Workshop	Shared	1023	Mr. Jadhav P. N.	Rs. 56,45,469/-
8.	Civil Computer Laboratory	Shared	50	Mr. V. R. Kasar	Rs. 7,49,517/-
9.	Computer Programming Laboratory	Shared	46	Ms. Kalokhe P. R.	Rs. 5,67,191.00/-

31. Number of students receiving financial assistance from college, university, government or other agencies:**Academic Year 2016-2017**

Sr. No.	financial assistance from (Agency)	Financial assistance from (Agency/college)	No. Of students benefited
1	TFWS	Gharda Institute of Technology	15
2	GIT Merit Scholarship	Gharda Institute of Technology	18

Academic Year 2015-2016

Sr. No.	financial assistance from (Agency)	Financial assistance from (Agency/college)	No. Of students benefited
1.	Scholarship & Free-ship	State Government	75
2.	EBC freeship	State Government	18
3.	Minority Scholarship	State Government	05
4	TFWS	Gharda Institute of Technology	12

Academic Year 2014-2015

Sr. No.	financial assistance from (Agency)	Financial assistance from (Agency/college)	No. Of students benefited
1.	Scholarship & Free-ship	State Government	64
2.	EBC freeship	State Government	12
3.	Minority Scholarship	State Government	03
4	TFWS	Gharda Institute of Technology	13
5	GIT Merit Scholarship	Gharda Institute of Technology	9

Academic Year 2013-2014

Sr. No.	financial assistance from (Agency)	Financial assistance from (Agency/college)	No. Of students benefited
1.	Scholarship & Free-ship	State Government	87
2.	EBC freeship	State Government	21
3.	Minority Scholarship	State Government	09
4	TFWS	Gharda Institute of Technology	14
5	GIT Merit Scholarship	Gharda Institute of Technology	13

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Academic Year 2015-2016

Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	Dalvik Apps, Kalyan Dist. Thane.	Dalvik Apps, Sampuran Singh	16 th to 20 th October 2015	2 days	FE
2	Dalvik Apps, Kalyan Dist. Thane.	Dalvik Apps, AmitThool.	16 th & 17 th March 2016	2 days	FE

Academic Year 2014-2015

Sr. No.	Name of the workshop / course / Lecture & Details	Conducted by	Date of Conduct	Duration	Target Students
1	Dalvik Apps, Kalyan Dist. Thane.	Dalvik Apps, Sampuran Singh	1 st & 2 nd March 2015	2 days	FE

33. Teaching methods adopted to improve student learning:

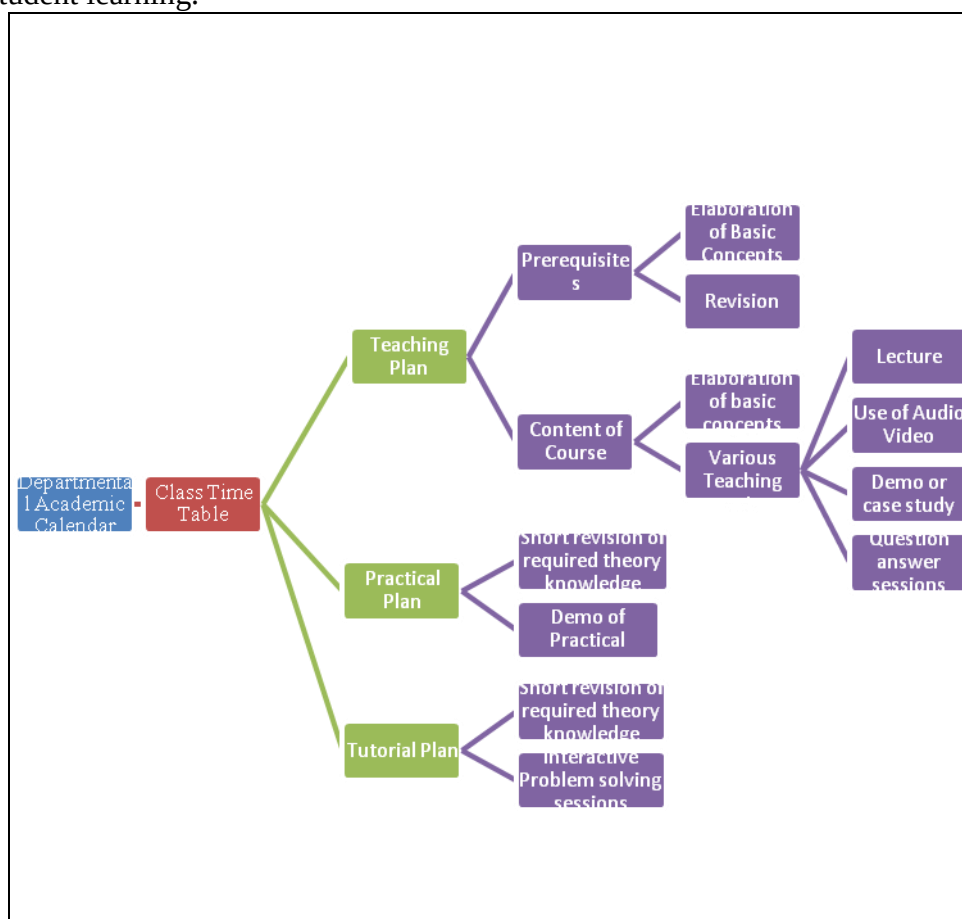
Student learning is a centre for the programme. The different teaching methods are adopted for improving student learning as listed below:

- 1) Lecture (LT)
- 2) Laboratory Session (LS)
- 3) Demo (DM) & Case Studies (CS)
- 4) Group Discussion (GD)
- 5) Seminar (SM)
- 6) Use of Audio Visual Tools
- 7) Conduction of Tutorials
- 8) Individual & group counselling through mentoring and adopting students.
- 9) Uploading the learning material online through e-learning resource.

As the student is an important part of our programme, department emphasizes the teaching learning process with the use of various student oriented tools and methodologies. At the beginning of each semester, once the University Academic Calendar is received, the institute prepares its own Academic Calendar. Afterwards, Department prepares its academic calendar by adding departmental level activities in it.

Before the start of semester Head of the department, calls the meeting of all respective faculties and plans the whole activities of the semester. As per the departmental academic calendar, each faculty prepares his/her teaching plan, laboratory plan, tutorial plan and various other activities related to teaching learning process. The following tree diagram elaborates various departmental activities. To improve students' learning, faculties use different strategies for lectures, practicals and tutorials.

The following tree diagram presents the teaching methods adopted to improve student learning.



1. Lecture:

As per the need of the content of course, each faculty designs a course on prerequisites of respective Course. Whenever required or before starting the actual syllabus, faculty conducts an interactive course on prerequisites. As the lecture is the most significant way of teaching, each faculty tries to engage maximum lectures. To maximize the interaction with students, department allots one extra lecture per week for required courses. To improve the learning experience of student and to simplify various difficult concepts, faculties deliver a lecture by using audio-visual tools and demonstration tools. Faculties adopt active learning strategy to improve cognitive skills of students, by actively involving them into teaching learning process.

2. Practical:

Without practical knowledge theory knowledge is meaningless. Therefore, to improve practical knowledge, faculties plan to conduct required practicals of the course. Before conduction of every practical each faculty revise the required theory knowledge, then they discuss its applications and finally, make students to perform it. To improve the team based learning and to make students responsible, students are instructed to perform practicals in a group of one, two or three members each (as per the need). Here every student gets involved and is monitored by the faculty as well as lab assistant.

3. Tutorial:

To transform knowledge and to make learning process more interactive, faculties of Mathematics conduct tutorials where faculties explain much needed concepts or specific methods in detail. They assign various mathematical problems or certain task to students for their betterment. Faculties take certain interactive problem solving sessions.

4. Demo & Case study:

To bridge the gap between theory and practice and to improve students understanding, certain lectures are combined with interactive demonstrations and case studies, any queries within lectures raised by students are solved further by demonstration and illustrations.

5. Seminar and Group Discussion:

To develop students' presentation skills, confidence and ability of logical thinking department conduct various seminars and group discussion activities. It provides the platform to students to show their intellectual skills and it also empowers the students to develop their overall personality.

6. Individual and Group Counselling:

To find out students academic problems and to provide the proper assistance for them, department formed mentorship programme. Mentorship convener

allots group of students to each faculty. He/she conduct an individual as well as group meetings with students allotted him/her. Throughout this programme, faculties try to focus on the needs of their mentees.

7. Audio-Visual Tools:

Faculties use Audio-Visual tools to make the learning phenomenon as real as possible and to provide firsthand knowledge through the organs of listening and seeing. Audio-Visual aids are the multi-sensory materials which motivate and excite the students. It makes more concrete and dynamic learning experience and provides significant gains in thinking and reasoning ability of students.

34. Participation in institutional social responsibility (ISR) and extension activities:

Sr. No.	Activity	Academic Year	No. Of students involved
1	Career Guidance Programme	17 th Dec 2015	130
2	Career Guidance Programme	15 th Dec 2015	100
3	Drawing, Rangoli & Elocution Competition for ZP School in Lote Competition.	16 th Oct 2015 to 17 th Oct 2015	60
5	Essay Writing Competition	30 th Sep 2015	36
6	Tree Plantation	15 th Sep 2015	45
7	Swacha Bharat Abhiyan (for staff)	14 th Nov 2014	38
8	Elocution Competition	5 th Oct 2013	25
9	Essay Writing Competition	24 th Aug 2013	18





35. SWOC analysis of the department and future plans:**Strengths:**

- Applied Sciences and Humanities is the unique department which is directly linked with all other departments; therefore it has the chance to develop itself in broad perspective.
- Faculties of the department are from different academic and Course background; it helps us to develop multidimensional point of view throughout various departmental activities.
- High faculty retention ratio of department positively helps to run various departmental activities smoothly and effectively.
- Cooperation and effective communication among faculties create efficient healthy and professional front.
- Mentoring and extra effort to deliver curriculum in stipulated time

Weaknesses:

1. Low FE to SE rate or low retention rate of students.
2. Limited scope of enriching the curriculum
3. Faculty participation in research activities
4. Fail to attract meritorious students
5. Less interaction or less direct linkage with industry.

Opportunities:

1. To get research grants from industry and government agencies for modification and expansion of laboratories to promote research.
2. Explore joint projects/programs with other departments/universities.
3. Affiliation with University of Mumbai (University with Potential for Excellence)

Concerns/constraints:

1. Centralised admission process at state level effects in wide variety, in quality and ability of students.
2. Limited scope to participate in core subjects of Engineering.
3. Adoptability to change as per evolving technology.

Future Plans:

1. To get the assistance in form of fund, equipments and sponsorship for research from industries or government agencies.
2. To modify and expand departmental laboratories for research & consultancy activities.
3. To increase the overall percentage result of students by improving teaching learning methodology.

6. List of Abbreviations:

Sr. No	Acronyms	Bacronyms
1	ACD	Anti Collision Device
2	AICTE	All India Council of Technical Education
3	AIEEE	All India Engineering Entrance Examination
4	AMC	Annual Maintance Contract
5	AMME	Advances In Manufacturing And Materials Engineering
6	APH	Applied Hydraulics
7	API	Academic Performance Indicators
8	AQAR	Annual Quality Assurance Report
9	ARC	Application Form Receipt Centre
10	ARM	Advanced RISC Machine
11	ASCEE	Association Of Students Of Computer Engineering For Excellence
12	ASH	Applied Sciences And Humanities
13	ASME	American Society Of Mechanical Engineer
14	ASTM	American Society Of Testing And Materials
15	ATM	Automatic Teller Machine
16	BE	Bachelors Of Engineering
17	BEE	Basic Electrical And Electronics
18	BJT	Bipolar Junction Transistor
19	BMC	Building Material And Construction
20	BOD	Biological Oxygen Demand
21	BOS	Board Of Study
22	BSNL	Bharat Sanchar Nigam Limited
23	CAD	Computer Aided Design
24	CAE	Computer-Aided Engineering
25	CAM	Computer Aided Manufacturing
26	CAP	Central Assessment Programme
27	CAS	Career Advancement Scheme
28	CAT	Common Admission Test
29	CATIA	Computer Aided Three Dimentional Interactive Application
30	CBGS	Credit Based Grading System
31	CBSE	Central Board of Secondary Education
32	CBT	Computer Based Training
33	CCDA	Cisco Certified Design Associate
34	CCNA	Cisco Certified Network Associate
35	CCTV	Closed Circuit Television
36	CDAC	Center For Development Advance Computing
37	CEO	Chief Executive Officer

38	CET	Common Entrance Test
39	CFD	Computational Fluid Dynamics
40	CFL	Compact Fluorescent Light
41	CHEM	Chemical Engineering
42	CNC	Computerised Numerically Controlled
43	COD	Chemical Oxygen Demand
44	COMP	Computer Engineering
45	COs	Course Outcomes
46	CS	Case Studies
47	CSCIT A	Circuit System Communication And Information Technology Application
48	CSI	Computer Society of India
49	CSIR	Council For Scientific And Industrial Research
50	CT	Concrete Technology
51	CUDA	Computer Undefined Device Architecture
52	CV	Curriculum Vitae
53	D.Sc.	Doctor of Science
54	DAB	Department Advisory Board
55	DAC	Departmental Assessment Committee
56	DBT	Department of Biotechnology
57	DC	Direct Current
58	DCS	Distributed Control System
59	DDoS	Distributed Denial of Service
60	DeitY	Department Of Electronics And Information Technology
61	DEM	Discrete Element Method
62	DLP	Digital Light Processing
63	DO	Dissolved Oxygen
64	DOA	Direction of Arrival
65	DoS	Denial of Service
66	DRDO	Defence Research And Development Organisation
67	DSIR	Department of Scientific And Industrial Research
68	DSO	Digital Storage Oscilloscope
69	DST	Department of Science And Technology
70	DTE	Director of Technical Education
71	DVET	Directorate of Vocational Education and Training
72	E&TC	Electronics And Telecommunication
73	EBC	Economically Backward Class
74	EG	Engineering Geology
75	ELITE	Emerging Leaders of The Information Technology Engineering
76	ELRC	Electronic Learning Resource Centre
77	EM	Engineering Mechanics

78	ENV	Environmental
79	EPABX	Electronic Private Automatic Branch Exchange
80	ERP	Enterprise Resource Planning
81	FAMT	Finolex Academy of Management And Technology
82	FC	Facilitation Centre
83	FDP	Faculty Development Programme
84	FE	First Year Engineering
85	FET	Field Effect Transistor
86	FOSS	Free & Open Source Software
87	FPGA	Field Programmable Gate Array
88	FTP	File Transfer Protocol
89	GAs	Graduate Attributes
90	GATE	Graduate Aptitude Test In Engineering
91	GC	Gas Chromatography
92	GCL	Gharda Chemicals Limited
93	GD	Group Discussion
94	GIT	Gharda Institute of Technology
95	GMAT	Graduate Management Admission Test
96	GOI	Government of India
97	GPGPU	General-Purpose Computing On Graphics Processing Units
98	GRE	Graduate Record Examination
99	GSM	Global System For Mobile
100	GSRF	Gharda Scientific Research Foundation
101	GTE	Geotechnical Engineering
102	HD	High Definitions
103	HEMT	High Electron Mobility Transistor
104	HOD	Head of Department
105	HPLC	High Pressure Liquid Chromatography
106	HR	Human Resource
107	HRD	Human Resource And Development
108	HSC	Higher Secondary Certificate
109	HTML	Hybertext Markup Language
110	HTO	Heat Transfer Operation
111	IAO	International Accredited Organization
112	IC	Integrated Circuit
113	ICCCE S	International Conference on Computing Communication And Energy Systems
114	ICSSR	Indian Council of Social Science Research
115	ICT	Information And Communication Technology
116	ICT	Institute of Chemical Technology
117	IDC	International Data Corporation
118	IEEE	Institute of Electrical And Electronics Engineer

119	IETE	Institute of Electronics And Telecommunication
120	IChE	Indian Institute of Chemical Engineers
121	IIT	Indian Institute of Technology
122	IITB	Indian Institute of Technology Bombay
123	IMAGE	Innovative Mechanical Association of Gritty Engineers
124	INAE	Indian National Academy of Engineering
125	IQAC	Internal Quality Assurance Cell
126	IQAS	Internal Quality Assurance System
127	ISP	Internet Service Provider
128	ISR	Institutional Social Responsibility
129	ISSN	International Standard Serial Number
130	ISTE	Indian Society For Technical Education
131	IT	Information Technology
132	ITC	Information, Telecommunication And Computing
133	IV	Industrial Visit
134	IVRS	Interaxtive Voice Response System
135	J&K	Jammu And Kashmir
136	JEE	Joint Entrance Examination
137	KVA	KiloVolt- Ampere
138	LAN	Local Area Network
139	LCD	Liquid Crystal Display
140	LED	Light Emitting Diode
141	LIC	Life Insurance Corporation
142	Li-Fi	Light Fidelity
143	LMC	Local Managing Committee
144	LS	Laboratory Session
145	LTCOE	Lokmany Tilak College Of Engineering
146	Ltd	Limited
147	MAC	Media Access Control
148	MANE T	Metropolitan Area Network
149	MATL AB	Matrix Laboratory
150	MECH	Mechanical Engineering
151	MGMT	Management
152	MH- CET	Maharashtra State Common Entrance Test
153	MHRD	Ministry of Human Resource And Development
154	MIDC	Maharashtra Industrial Development Corporation
155	MIS	Monthly/ Management Information System
156	MMRD A	Mumbai Metropolitan Region Development Authority

157	MOSFET	Metal Oxide Semiconductor Field Effect Transistor
158	MOUs	Memorandum of Understandings
159	MPhil	Master of Philosophy
160	MPSC	Maharashtra State Public Service Commission
161	MR	Magnetic Resonance
162	MS	Maharashtra State
163	MSRTC	Maharashtra State Road Transport Corporation
164	MSSDS	Maharashtra State Skill Development Scheme
165	NAAC	National Assessment & Accreditation Council
166	NABL	National Accreditation Board For Testing And Calibration Laboratories
167	NBA	National Board of Accreditation
168	NCVT	National Council of Vocational Training
169	NET	National Eligibility Test
170	NGO	Non-Governmental Organization
171	NIT	National Institute of Technology
172	NMEICT	National Mission on Education Through Information And Communication
173	NPTEL	National Programme on Technology Enhanced Learning
174	NSDC	National Skill Development Certification
175	NSS	National Service Scheme
176	NT	Nomadic Tribes
177	OBC	Other Backward Class
178	OHP	Over Head Projector
179	OMS	Other than Maharashtra State
180	OPAC	Online Public Access Catalogue
181	PAC	Programme Assessment Committee
182	PBAS	Performance Based Appraisal System
183	PC	Personal Computer
184	PCB	Printed Circuit Board
185	PCM	Physics, Chemistry, Mathematics
186	PE	Process Engineering
187	PEO	Programme Educational Objectives
188	PG	Post Graduation
189	Ph.D.	Doctor of Philosophy
190	PLC	Programmable Logic Controller
191	PLM	Product Lifecycle Management
192	PMKVUA	Pramod Mahajan Kaushaly Vikas Udyojagta Abhiyan
193	PMKV	Pradhan Mantri Kaushal Vikas Yojana

	Y	
194	PNN	Probabilistic Neural Network
195	PO	Programme Outcome
196	PPPoE	Point-To-Point Protocol Over Ethernet
197	PPT	Power Point Presentation
198	PSO	Public Service Obligation
199	PSU	Public Sector Undertaking
200	PTC	Children Of Primary School Teacher
201	PULSE	Pioneer Union For Lightning The Science Of Electronics & Telecommunication
202	PVC	Poly Vinyl Chloride
203	Pvt	Private
204	R & D	Research & Development
205	RBAC	Role Based Access Control
206	RF	Radio Frequency
207	Rfid	Radio Frequency Identification
208	RJELAL	Research Journal of English Language And Literature
209	S/W	Software
210	SAE	Society of Automotive Engineers
211	SBC	Special Backward Class
212	SC	Schedule Caste
213	SCADA	Supervisory Control And Data Acquisition
214	SCI	Science Citation Index
215	SDN	Software-Defined Networking
216	SE	Second Year Engineering
217	SJIF	Scientific Journal Impact Factor
218	SMS	Short Message Service
219	Sngl Olp	Signal Open Licence Program
220	SPACE	Students Pioneer Association of Chemical Engineering
221	SQL	Structured Query Language
222	SRC	Student Representative Committee
223	SSL	Secure Sockets Layer
224	SSR	Self Study Report
225	ST	Schedule Tribe
226	STAAD	Structural Analysis And Design Computer Program
227	STTP	Short Term Training Programme
228	SWOC	Strength Weakness Opportunity Challenges
229	TAAC	Teknocrat's Academy of Automation And Control Technology

230	TAACT	Teknocrat's Academy of Automation And Control Technology
231	TDS	Total Dissolved Solid
232	TE	Third Year Engineering
233	TFWS	Tuition Fee Waiver Scheme
234	TOEFL	Test of English As Foreign Language
235	TPO	Training And Placement officer
236	TV	Television
237	UG	Undergraduates
238	UGC	University Grant Commission
239	UPS	Uninterruptible Power Supply
240	UPSC	Union Public Service Commission
241	USA	United State of America
242	UTM	Universal Testing Machine
243	UV	Ultra Violet
244	VANE T	Vehicular Ad hoc Network
245	VJ/DT	Vimukt Jati/Denotified Tribes
246	VJTI	Veer Jeetamata Technical Institute
247	VLSI	Very Large Scale Integration
248	VNA	Vector Network Analyzer
249	VRML	Virtual Reality Modeling Language
250	VTP	Vocational Training Center
251	WDC	Women Development Cell
252	ZP	Zilha Parishad

7. Annexure

1) AICTE Approval Letter



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

F.No. Western/1-2809269083/2016/EOA

Date: 05-Apr-2016

To,

The Secretary,
Tech. & Higher Education Deptt.
Govt. of Maharashtra, Mantralaya,
Annexe Building, Mumbai-400032

Sub: Extension of approval for the academic year 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F.No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Western	Application Id	1-2809269083
Name of the Institute	GHARDA FOUNDATION'S GHARDA INSTITUTE OF TECHNOLOGY	Permanent Id	1-5277521
Name of the Society/Trust	GHARDA FOUNDATION	Institute Address	AT & POST: LAVEL, TALUKA: KHED, DISTRICT: RATNAGIRI, MAHARASHTRA, PIN: 415 708., KHED, RATNAGIRI, Maharashtra, 415708
Institute Type	Unaided - Private	Society/Trust Address	5/6, JER MANSION, OPP. W.P. WARDE MARG, BANDRA (WEST), MUMBAI- 400050, MUMBAI, MUMBAI CITY, Maharashtra, 400050

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2809269083			Course		Affiliating Body		Intake 2015-16		Intake Approved for 2016-17		NRI Approval status		PIO / FN / Gulf quota Approval status		Foreign Collaboration/Twinning Program Approval status	
Program	Shift	Level		Full/Part Time												
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	CHEMICAL ENGINEERING	FULL TIME	Mumbai University, Mumbai		60	60	NA	NA	NA	NA	NA	NA	NA	NA

Application Number: 1-2809269083

Note: This is a Computer generated Report. No signature is required.

Page 1 of 3
Letter Printed On: 19 April 2016



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

GY		TE								
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	CIVIL ENGINEERING	FULL TIME	Mumbai University, Mumbai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	COMPUTER ENGINEERING	FULL TIME	Mumbai University, Mumbai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	ELECTRONICS & TELE-COMMUNICATION ENGINEERING	FULL TIME	Mumbai University, Mumbai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	MECHANICAL ENGINEERING	FULL TIME	Mumbai University, Mumbai	60	60	NA	NA	NA

The above mentioned approval is subject to the condition that GHARDA FOUNDATION'S GHARDA INSTITUTE OF TECHNOLOGY shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Dr. Avinash S Pant
Vice - Chairman, AICTE

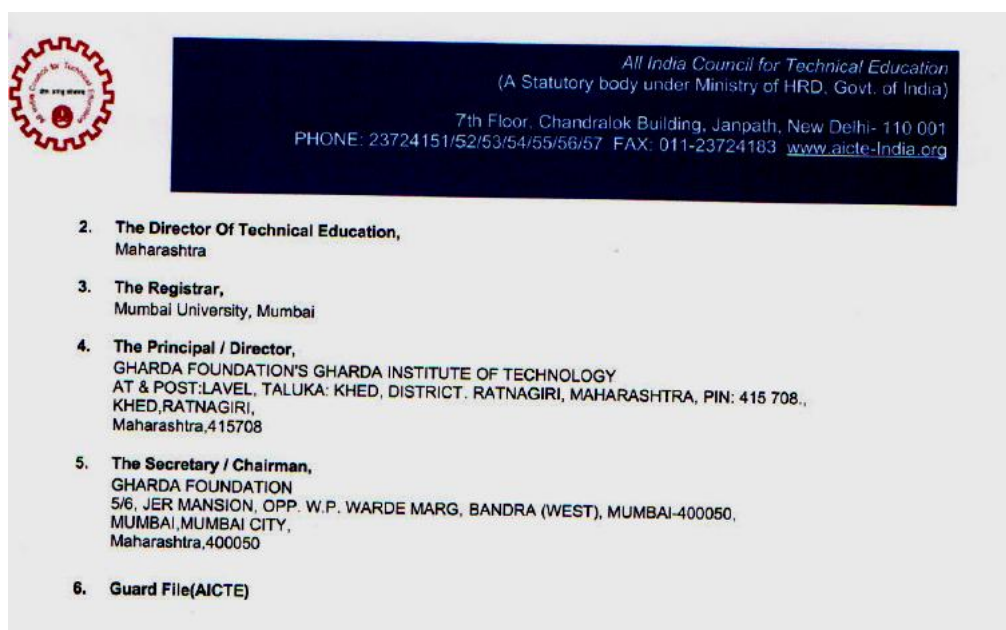
Copy to:

1. **The Regional Officer,**
All India Council for Technical Education
Industrial Assurance Building
2nd Floor, Nariman Road
Mumbai - 400 020, Maharashtra

Application Number: 1-2809269083

Note: This is a Computer generated Report.No signature is required.

Page 2 of 3
Letter Printed On:19 April 2016



2) DTE Approval Letter



तंत्र शिक्षण संचालनालय, महाराष्ट्र राज्य,

३ महापालिका मार्ग, पत्र पेटी क्रमांक १९६७, मुंबई ४०० ००१.

दूरध्वनी - २२६२०६०१, २२६९०६०२, २२६४११५०/५१, फॅक्स - २२६९२१०२.

सार - EDUTECH

E-mail : Desk2@dtte.org.in Internet : http://www.dtte.org.in

क्रमांक : २/एनजीसी/इजि/मान्यता/२००७/ ६२६

दिनांक : २१ जुलै २०११

प्रति,

प्रधान,

परजा फाऊंडेशनचे इन्स्टीट्यूट ऑफ टेक्नॉलॉजी,

सा. लावेल, ता. खेड,

जिल्हा-सांगली

विषय : शैक्षणिक वर्ष २००७-०८ पासून विना-अनुदान तत्वावर अभियांत्रिकी
महाविद्यालय सुरु करण्यास परवानगी देण्याबाबत.

संदर्भ : शासन निर्णय, क्र.टिईएम-२००६/(२८६/०७)/ताशि-१, दि.३० जून, २००७.

उपरोक्त विषया संदर्भात आपणास कळविण्यात येते की, अखिल भारतीय तंत्रशिक्षण परिषदेने दिलेल्या मान्यतेस अनुसरून शासनाने वरील संदर्भाधीन शासन निर्णयान्वये आपल्या संस्थेला शैक्षणिक वर्ष २००७-०८ पासून विना-अनुदान तत्वावर नवीन अभियांत्रिकी महाविद्यालय खाली दर्शविलेल्या अभ्यासक्रमासह सुरु करण्यास विहित अटीच्या अधिन राहून परवानगी दिलेली आहे.

अ.क्र.	अभ्यासक्रमाचे नांव	प्रवेशक्षमता
१	केमिकल इंजि.	६०
२	मेकॅनिकल इंजि.	६०
३	कॉम्प्युटर इंजि.	६०
४	इन्फॉर्मेशन इंजि.	६०

सदर अटीपैकी आपण शासन निर्णयात नमूद केलेल्या अटी पालन करण्याचे नोंदणीकृत हमीपत्र रु.१००/- च्या स्टॅम्पपेपरवर या संचालनालयास सादर केलेले आहे.

विहित केलेल्या अटीपैकी उरलेल्या खालील अटी व शर्तीच्या अधिन राहून अभियांत्रिकी पदवी अभ्यासक्रमाची नवीन संस्था सन २००७-०८पासून विना अनुदान तत्वावर सुरु करण्यास व विद्यार्थ्यास प्रवेश देण्यास या संचालनालयाकडून अंतिम परवानगी देण्यात येत आहे.

- सदर मंजूरी कायम विना-अनुदान तत्वावर राहिल. सदर अभ्यासक्रमासाठी शासनाकडून आवर्ती व अनावर्ती अनुदान मिळाल्याही परिस्थितीत व कोणत्याही कारणास्तव मंजूर केले जाणार नाही.
- शासन निर्णय, शिक्षण व सेवायोजन विभाग क्रमांक-टिईएम-३३८२/११९८३६/(१९०)/ताशि-१ अ, दिनांक २१ मे, १९८३ अन्वये विना-अनुदान तंत्रशिक्षण संस्थांना शासनाने विहित केलेल्या अटी व शर्ती आपणास बंधनकारक असतील.
- संस्थेने अभ्यासक्रम चालविण्यास पूर्णवेळ शिक्षक कर्मचारी नेमावेत व शासन व अखिल भारतीय तंत्रशिक्षण परिषद यांच्या नियमाप्रमाणे वेतन व भत्ते कर्मचा-यांना देण्यात यावेत. शिक्षक व शिक्षकेत्तर कर्मचा-यांच्या वेतन व भत्ते इत्यादीबाबत तसेच विद्यार्थ्यांकडून या संचालनालयाकडे तक्रारी आल्यास किंवा न्यायालयीन प्रकरण उद्भवल्यास संस्थेवर कडक कारवाई करण्यात येईल व होणा-या परिणामास सर्वस्वी संस्था जबाबदार राहिल.
- संस्थेने अभियांत्रिकी महाविद्यालयासाठी नियत ठेव म्हणून रु.१५.०० लाख कॅनरा बँक शाखा बांद्रा (पूर्व) मुंबई येथे मावती क्र.०५/आरडीकेसी-०२३१९१, दि.२०.०७.२००७ अन्वये संस्थेचे अध्यक्ष व संचालक, तंत्रशिक्षण, महाराष्ट्र राज्य, मुंबई यांच्या संयुक्त खात्यात ५ वर्षासाठी जमा केलेले आहेत. तसेच द्वितीय वर्षासाठी पुढील शैक्षणिक वर्ष २००८-०९ हा अभ्यासपूर्वी रु. १५.०० लाख संयुक्त खात्यात जमा करणे आवश्यक आहे याची नोंद घ्यावी.

- जावल्या संस्थेला महाराष्ट्र शासन, तंत्रशिक्षण संचालनालय, महाराष्ट्र राज्य, मुंबई शिक्षण शुल्क समिती, मुंबई, प्रदेश नियंत्रण समिती, मुंबई व अखिल भारतीय तंत्रशिक्षण परिषद, नवी दिल्ली यांचेकडून वेळोवेळी विहीत करण्यात आलेले प्रवेश नियम, आरक्षण, शिक्षणशुल्क व इतर शुल्क या संबंधीच्या निर्णयांचे पालन करणे बंधनकारक राहिले.
५. आपल्या संस्थेची फी निर्धारित करण्यासाठी शिक्षण शुल्क समिती वाढी यांच्याकडे प्रस्ताव सादर करण्यात यावा. सदर अभ्यासक्रमाचे शुल्क शिक्षणशुल्क समितीने मंजूर केल्याप्रमाणे आकारण्यात यावे. निर्धारित केलेल्या शिक्षण शुल्कापेक्षा जास्त फी आकारू नये. विद्यार्थ्यांकडून शिक्षण शुल्क समितीने निश्चित केलेल्या दरापेक्षा जास्त शुल्क आकारल्यास व जाबबत विद्यार्थी किंवा त्यांच्या पालकांकडून तक्रार प्राप्त झाल्यास किंवा न्यायालयीन प्रकरण चालूवल्यास त्यांच्या सर्व परिणामास संस्था जबाबदार राहिल.
६. संस्थेत प्रवेश घ्यायचे आवश्यक ती पुस्तके, नियतकालिक इत्यादी अखिल भारतीय तंत्रशिक्षण परिषद व कुलसचिव, मुंबई विद्यापीठ, मुंबई यांच्या मानकानुसार खरेदी करणे आवश्यक आहे. तसेच विद्यार्थ्यांना वाचनालयाचा पुरेपूर उपयोग घेण्याचे पुढीने प्रचालनात विद्यार्थ्यांना अभ्यासिकांची सोय करणे आवश्यक आहे.
७. संस्थेत किंवा त्याचे प्रतिनिधी यांना अखिल भारतीय तंत्रशिक्षण परिषद/शासनाच्या मानकाप्रमाणे जागा, इमारत, शिक्षक व शिक्षकेंतर कर्मचारी व इतर सोयीसुविधा उपलब्ध आहेत किंवा कसे याबाबत संस्थेत केव्हाही अधाक नेट देऊन तपासणी करण्याचे अधिकार राहतील.
८. तंत्रशिक्षण संचालनालय, महाराष्ट्र शासन किंवा मुंबई विद्यापीठ, मुंबई यांच्याकडून प्राधिकृत करण्यात आलेले अधिकारी यास त्यांनी संस्थेचे निरीक्षण करून त्या निरीक्षणांती संस्थेत आढळून येणा-या उणीवांबद्दल उचित प्रतिसादी करण्याचे अधिकार राहतील.
९. प्रवेश संस्थेत घेऊन, तंत्रशिक्षण याच्या नियंत्रणाखाली राहिल व संबंधित अभ्यासक्रमांच्या परीक्षा कुलसचिव, मुंबई विद्यापीठ, मुंबई यांच्याकडून घेतल्या जातील.
१०. प्रवेश शुल्काबद्दल, मुंबई विद्यापीठ, मुंबई यांची सदर अभ्यासक्रमासाठी संलग्नता घ्यावी लागेल.
११. जर अभ्यासक्रमाचे प्रवेश शैक्षणिक वर्ष २००८-०९ साठी प्रवेश नियमात विहीत केलेल्या तरतुदीनुसार केंद्रभूत प्रवेश सक्षिप्तपणे करण्यात येतील.
१२. विद्यार्थ्यांना प्रवेश देताना त्यांच्याकडून रकमेच्या स्वरूपात कॅपिटेशन फी किंवा इतर कोणत्याही स्वरूपात देणगी शिफारस देणार नाही, तसेच प्रवेश गुणवत्तेनुसार करणे बंधनकारक आहे.
१३. शासनाने, या संचालनालयाने कुलसचिव, मुंबई विद्यापीठ, मुंबई व अखिल भारतीय तंत्रशिक्षण परिषद नवी दिल्ली तामें वेळोवेळी ठरवून दिलेल्या अटी व शर्तीचे संस्था उल्लंघन करीत असल्यास सदरची संस्था बंद करण्याचे शासनाने अखिल भारतीय तंत्रशिक्षण परिषदेच्या शिफारशीनुसार शासनास राहतील.
१४. जावल्या सर्व अटी व शर्ती आपणास बंधनकारक राहतील.
- (प्रा.न.बा.मोसलकर)
- संचालक, तंत्रशिक्षण संचालनालय, म.रा., मुंबई.
१५. मा.प्रधान, महाराष्ट्र शासन, उच्च व तंत्रशिक्षण विभाग, मंत्रालय विस्तार भवन, मुंबई यांना सदरमाधीन शासन निर्णयाच्या संदर्भात माहितीसाठी सादर.
१६. सहसंचालक, तंत्रशिक्षण विभागीय कार्यालय, मुंबई यांना माहितीस्तव सादर.
१७. मा.कुलसचिव, मुंबई विद्यापीठ, मुंबई यांना माहिती व योग्य कार्यवाहीसाठी.
१८. कार्यसम क्र.२-अ, मुख्य कार्यालय, मुंबई.
१९. नि.प्र.क्र.२०१७/अ, सिस्टिम ऑनलाइस्ट यांना माहिती व योग्य कार्यवाहीसाठी.
२०. संचालक.



तंत्र शिक्षण संचालनालय, महाराष्ट्र राज्य,

३, महापालिका मार्ग, पत्र पेटी क्रमांक १९६७, मुंबई ४०० ००१.

दूरध्वनी - २२६२०६०१, २२६९०६०२, २२६४११५०/५१, फॅक्स - २२६९२१०२.

मेल - EDUTECH

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क्रमांक : २/एनजीसी/मान्यता/२००८/२४८३

दिनांक :

15 डिसेंबर २००८

✓ प्रति,
प्राचार्य,
धर्मा फाउंडेशनचे प्रिन्सिपल इन्स्टिट्यूट ऑफ टेक्नॉलॉजी
पोस्ट ब्याचेल, टी.व्हेड.
जि.रत्नागिरी ४१५ ७०८.

(Institute Code : EN-247)

विषय : शैक्षणिक वर्ष २००८-२००९ पासून विना अनुदान तत्वावर सुरु असलेल्या
अभियांत्रिकी महाविद्यालयात नवीन पदवी अभ्यासक्रम सुरु करण्यास
परवानगी देण्याबाबत.

संदर्भ : शासन निर्णय, उच्च व तंत्रशिक्षण विभाग, क्रमांक-टीईएम-२००८/(३४३/०८)/तांशि-१,
दिनांक ३१ जुलै, २००८.

उपरोक्त विषया संदर्भात आपणास कळविण्यात येते की, अखिल भारतीय तंत्रशिक्षण परिषदेने दिलेल्या मान्यतेस अनुसरून शासनाने वरील संदर्भाधीन शासन निर्णयान्वये आपल्या संस्थेत
शैक्षणिक वर्ष २००८-०९ पासून खालील नवीन पदवी अभ्यासक्रम सुरु करण्यास विहित अटीच्या अधिन राहून
परवानगी दिलेली आहे.

अ.क्र.	अभ्यासक्रम	प्रवेशसमता
१	इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन इंजिनिअरींग	६०

सदर अटीपैकी आपण शासन निर्णयात नमूद केलेल्या अटी पालन करण्याचे नोंदणीकृत
हमीपत्र रु.१००/- च्या स्टॅम्पपेपरवर या संचालनालयास सादर केलेले आहे.

विहित केलेल्या अटीपैकी उरलेल्या खालील अटी व शर्तीच्या अधिन राहून स.व.२००८-०९ पासून
नवीन पदवी अभ्यासक्रम सुरु करण्यास व विद्यार्थ्यांना प्रवेश देण्यास या संचालनालयाकडून अंतिम परवानगी
देण्यात येत आहे.

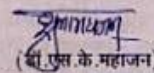
- सदर मंजूरी कायम विना-अनुदान तत्वावर राहिल. सदर अभ्यासक्रमासाठी शासनाकडून आवर्ती व
अनावर्ती अनुदान कोणत्याही परिस्थितीत व कोणत्याही कारणास्तव मंजूर केले जाणार नाही.
- शासन निर्णय, शिक्षण व सेवायोजन विभाग क्रमांक-टीईएम-३३८२/११९८३६/(१९०)/तांशि-१ अ.दि.२१ मे,
१९८३ अन्वये विना-अनुदान तंत्रशिक्षण संस्थांना शासनाने विहित केलेल्या अटी व शर्ती आपणास
बधनकारक असतील.
- संस्थेने अभ्यासक्रम चालविण्यास पूर्णवेळ शिक्षक कर्मचारी नेमावेत व शासन व अखिल भारतीय तंत्रशिक्षण
परिषद यांच्या नियमाप्रमाणे वेतन व मत्ते कर्मचा-यांना देण्यात यावेत. शिक्षक व शिक्षकतर कर्मचा-यांच्या
वेतन व मत्ते इत्यादीबाबत तसेच विद्यार्थ्यांकडून या संचालनालयाकडे तक्रारी आल्यास किंवा न्यायालयीन
प्रकरण उद्भवल्यास संस्थेवर कडक कारवाई करण्यात येईल व होणा-या परिणामास सर्वस्वी संस्था
जबाबदार राहिल.

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४. संस्थेने नवीन पदवी अभ्यासक्रमाटी नियतठेव म्हणून रु.३.०० लाख कॅनरा बँक शाखा-बोद्रा, मुंबई येथे पावती क्र. ६९९५४६, दि.०६.१०.२००८ अन्वये संस्थेचे अध्यक्ष व संचालक, तंत्रशिक्षण, महाराष्ट्र राज्य, मुंबई यांच्या संयुक्त स्वात्यात ५ वर्षासाठी जमा केलेले आहेत.
५. आपल्या संस्थेत महाराष्ट्र शासन, तंत्रशिक्षण संचालनालय, महाराष्ट्र राज्य, मुंबई शिक्षण शुल्क समिती, मुंबई, प्रवेश नियंत्रण समिती, मुंबई व अखिल भारतीय तंत्रशिक्षण परिषद, नवी दिल्ली यांचेकडून वेळोवेळी विहीत करण्यात आलेले प्रवेश नियम, आरक्षण, शिक्षणशुल्क व इतर शुल्क या संबंधीच्या निर्णयाचे पालन करणे बंधनकारक राहिल.
६. सदर अभ्यासक्रमाचे शुल्क शिक्षणशुल्क समितीने मंजूर केल्याप्रमाणे आकारण्यात यावे. निर्धारित केलेल्या शिक्षण शुल्कापेक्षा जास्त फी आकारू नये. विद्यार्थ्यांकडून शिक्षण शुल्क समितीने निश्चित केलेल्या दरापेक्षा जास्त शुल्क आकारल्यास व याबाबत विद्यार्थी किंवा त्यांच्या पालकाकडून तक्रार प्राप्त आल्यास किंवा न्यायालयीन प्रकरण उदभवल्यास होना-या सर्व परिणामास संस्था जबाबदार राहिल.
७. संस्थेतील ग्रंथालयास आवश्यक ती पुस्तके, निवृत्तकालिके इत्यादी अखिल भारतीय तंत्रशिक्षण परिषद व कुलसचिव, मुंबई विद्यापीठ, मुंबई यांच्या मानकानुसार खरेदी करणे आवश्यक आहे. तसेच विद्यार्थ्यांना वाचनालयाचा पुरेपूर उपयोग होण्याचे दृष्टीने ग्रंथालयात विद्यार्थ्यांना अभ्यासिकेची सोय करणे आवश्यक आहे.
८. संचालक किंवा त्यांचे प्रतिनिधी यांना अखिल भारतीय तंत्रशिक्षण परिषद/शासनाच्या मानकाप्रमाणे जागा, द्वास्त, शिक्षक व शिक्षकेतर कर्मचारी व इतर सोयीसुविधा तपलब्ध आहेत किंवा करे याबाबत संस्थेत केव्हाही अचानक भेट देऊन तपासणी करण्याचे अधिकार राहतील.
९. तंत्रशिक्षण संचालनालय, महाराष्ट्र शासन किंवा मुंबई विद्यापीठ, मुंबई यांच्याकडून प्राधिकृत करण्यात आलेले अधिकारी यांसा त्यांनी संस्थेचे निरीक्षण करून त्या निरीक्षणांती संस्थेत आढळून येणा-या उणीवांबद्दल उचित कार्यवाही करण्याचे अधिकार राहतील.
१०. सदर संस्था संचालक, तंत्रशिक्षण यांच्या नियंत्रणाखाली राहिल व संबंधित अभ्यासक्रमाच्या परीक्षा कुलसचिव, मुंबई विद्यापीठ, मुंबई यांच्याकडून घेतल्या जातील.
११. संस्थेत कुलसचिव, मुंबई विद्यापीठ, मुंबई यांची सदर अभ्यासक्रमासाठी संलग्नता घ्यावी लागेल.
१२. सदर अभ्यासक्रमाचे प्रवेश शैक्षणिक वर्ष २००८-०९ साठी प्रवेश नियमात विहीत केलेल्या तरतुदीनुसार केंद्रीभूत प्रवेश पत्रेद्वारे करण्यात येतील.
१३. विद्यार्थ्यांना प्रवेश देताना त्यांच्याकडून रकमेच्या स्वरूपात कॅपिटेशन फी किंवा इतर कोणत्याही स्वरूपात देणगी स्विकारता येणार नाही, तसेच प्रवेश गुणवत्तेनुसार करणे बंधनकारक आहे.
१४. शासनाने, या संचालनालयाने कुलसचिव, मुंबई विद्यापीठ, मुंबई व अखिल भारतीय तंत्रशिक्षण परिषद नवी दिल्ली यांनी वेळोवेळी ठरवून दिलेल्या अटी व शर्तीचे संस्था उत्तमगन करीत असल्यास सदरगी संस्था बंद करण्याचे अधिकार अखिल भारतीय तंत्रशिक्षण परिषदेच्या शिफारशीनुसार शासनास राहतील. उपरोक्त सर्व अटी व शर्ती आपणास बंधनकारक राहतील.


(प्र.सं.के.महाजन)

प्र.संचालक, तंत्रशिक्षण संचालनालय, म.रा., मुंबई.

प्रत,

१. मा.प्रधान सचिव, महाराष्ट्र शासन, उच्च व तंत्रशिक्षण विभाग, मंत्रालय विस्तार भवन, मुंबई यांना संदर्भाधीन शासन निर्णयाच्या संदर्भात माहितीसाठी सादर.
२. मा.कुलसचिव, मुंबई विद्यापीठ, मुंबई यांना माहिती व योग्य कार्यवाहीसाठी सादर.
३. सहसंचालक, तंत्रशिक्षण विभागीय कार्यालय, मुंबई यांना माहितीस्तव.
४. कार्यासन क्र.२-अ, मुख्य कार्यालय, मुंबई.
५. कार्यासन क्र.३, सिस्टिम जॅनलिरट यांना माहिती व योग्य कार्यवाहीसाठी.
६. निवड नस्ती.



तंत्र शिक्षण संचालनालय, महाराष्ट्र राज्य,

३. महापालिका मार्ग, पत्र पेटी क्रमांक १९६७, मुंबई-४०० ००१.

दूरध्वनी - २२६२०६०१, २२६९०६०२, २२६४११५०/५१, फॅक्स - २२६९२१०२.

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Date	२८/१२/११

क्रमांक : २/एनजीसी/मान्यता/२०१०/ २४९९
दिनांक :

28 DEC 2010

प्रति,
प्राचार्य,
घर्डा फाऊंडेशनचे,
घर्डा इन्स्टिट्यूट ऑफ टेक्नॉलॉजी
मु.पो.लेकल, ता.खेड,
जिल्हा-रत्नागिरी.

(Institute Code 3216)

विषय : शैक्षणिक वर्ष २०१०-११ पासून विना-अनुदान तत्वावर अभियांत्रिकी महाविद्यालयामध्ये
नवीन पदवी अभ्यासक्रम सुरु करण्यास परवानगी देण्याबाबत.

संदर्भ : अखिल भारतीय तंत्रशिक्षण परिषदेचे पत्र क्र.वेस्टर्न रिझन, महाराष्ट्रा/१- ५२७७५२११/२०१०/ईओए, दि. २३
ऑगस्ट, २०१०, शासन निर्णय क्र. संकिर्ण-२०१०/(१८८/२०१०)/तांशि-४, दि.३० जुलै, २०१०

उपरोक्त विषया संदर्भात आपणास कळविण्यात येते की, अखिल भारतीय तंत्रशिक्षण परिषदेने दिलेल्या मान्यतेस
अनुसरून शासनाने वरील संदर्भाधीन शासन निर्णयान्वये आपल्या संस्थेला शैक्षणिक वर्ष २०१०-११ पासून विना-अनुदान तत्वावर
नवीन पदवी अभ्यासक्रम सुरु करण्यास खालील दर्शविलेल्या प्रवेशक्षमतेसह विहित अटीच्या अधिन राहून परवानगी दिलेली
आहे.

अ.क्र.	अभ्यासक्रमाचे नांव	प्रवेशक्षमता
१.	सिव्हिल इंजिनिअरींग	००-६०
२.	---	---
३.	---	---
४.	---	---

सदर सदर अटीपैकी आपण शासन निर्णयात नमूद केलेल्या अटीचे पालन करण्याचे नोंदणीकृत हमीपत्र या
संचालनालयास सादर केले आहे.

विहित केलेल्या अटीपैकी उरलेल्या खालील अटी व शर्तीच्या अधिन राहून शैक्षणिक वर्ष २०१०-११ पासून विना-
अनुदान तत्वावर अभियांत्रिकी महाविद्यालयामध्ये नवीन पदवी अभ्यासक्रम सुरु करण्यास व विद्यार्थ्यांना प्रवेश देण्यास या
संचालनालयाकडून अंतिम परवानगी देण्यात येत आहे.

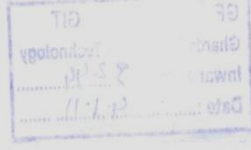
- सदर मंजूरी कायम विना-अनुदान तत्वावर राहिल. सदर अभ्यासक्रमासाठी शासनाकडून आवर्ती व अनावर्ती अनुदान
कोणत्याही परिस्थितीत व कोणत्याही कारणास्तव मंजूर केले जाणार नाही.
- शासन निर्णय, शिक्षण व सेवायोजन विभाग क्र.टिईएम-३३८२/११९८३६/(१९०/तांशि-१, दि. २१ मे., १९८३ अन्वये विना-
अनुदान तंत्रशिक्षण संस्थाना शासनाने विहित केलेल्या अटी व शर्ती आपणास बंधनकारक असतील.
- संस्थेने अभ्यासक्रम चालविण्यास पूर्णवेळ शिक्षकवृंद कर्मचारी नेमावे व शासन व अखिल भारतीय तंत्रशिक्षण परिषद यांच्या
नियमाप्रमाणे वेतन व भत्ते कर्मचा-यांना देण्यात यावे. शिक्षक व इतर कर्मचा-यांच्या वेतन व भत्ते इत्यादीबाबत तसेच
विद्यार्थ्यांकडून या संचालनालयाकडे तक्रारी आल्यास किंवा न्यायालयीन प्रकरण उद्भवल्यास संस्थेवर कडक कारवाई
करण्यात येईल व होणा-या परिणामास सर्वस्वी संस्था जबाबदार राहिल.

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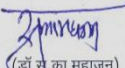
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४. संस्थेने अभियांत्रिकी महाविद्यालयामध्ये नवीन पदवी अभ्यासक्रमासाठी नियतदेव रु.३.०० लाख कॅनरा बँक शाखा बांद्रा येथे कस्टमर आयडी क्र.८०९५५७, दि.२३.११.२०१० अन्वये संस्थेचे अध्यक्ष व संचालक, तंत्रशिक्षण महाराष्ट्र राज्य, मुंबई यांच्या संयुक्त खात्यात ५ वर्षासाठी जमा केलेले आहेत.
५. आपल्या संस्थेला महाराष्ट्र शासन, तंत्रशिक्षण संचालनालय, महाराष्ट्र राज्य, मुंबई शिक्षण शुल्क समिती, प्रवेश नियंत्रण समिती, मुंबई व अखिल भारतीय तंत्रशिक्षण परिषद, नवी दिल्ली यांचेकडून वेळोवेळी विहीत करण्यात आलेले प्रवेश नियम, आरक्षण, शिक्षणशुल्क व इतर शुल्क या संबंधीच्या निर्णयाचे पालन करणे बंधनकारक राहिल.
६. सदर अभ्यासक्रमाचे शुल्क शिक्षणशुल्क समितीने मंजूर केल्याप्रमाणे आकारण्यात यावे. निधीरीत केलेल्या शिक्षण शुल्कापेक्षा जास्त फी आकारू नये. विद्यार्थ्यांकडून शिक्षण शुल्क समितीने निश्चित केलेल्या दरापेक्षा जास्त शुल्क आकारल्यास व याबाबत विद्यार्थी किंवा त्यांच्या पालकांकडून तक्रार प्राप्त झाल्यास किंवा न्यायालयीन प्रकरण उद्भवल्यास होणा-या सर्व परिणामास संस्था जबाबदार राहिल.
७. संस्थेतील ग्रंथालयास आवश्यक ती पुस्तके, नियतकालिके इत्यादी अखिल भारतीय तंत्रशिक्षण परिषद व कुलसचिव, मुंबई विद्यापीठ, मुंबई यांच्या मानकानुसार खरेदी करणे आवश्यक आहे. तसेच विद्यार्थ्यांना वाचनालयाचा पुरेपूर उपयोग होण्याचे दृष्टीने ग्रंथालयात विद्यार्थ्यांना अभ्यासिकेची सोय करणे आवश्यक आहे.
८. संचालक, किंवा त्यांचे प्रतिनिधी यांना अखिल भारतीय तंत्रशिक्षण परिषद/शासनाच्या मानकाप्रमाणे जागा, इमारत, शिक्षक व शिक्षकेतर कर्मचारी व इतर सोयीसुविधा उपलब्ध आहेत किंवा कसे याबाबत संस्थेत केव्हाही अचानक भेट देऊन तपासणी करण्याचे अधिकार राहतील.
९. तंत्रशिक्षण संचालनालय, महाराष्ट्र शासन किंवा मुंबई विद्यापीठ, मुंबई यांच्याकडून प्राधिकृत करण्यात आलेले अधिकारी यांस त्यांनी संस्थेचे निरीक्षण करून त्या निरीक्षणाती संस्थेत आढळून येणा-या उणीवांबद्दल उचित कार्यवाही करण्याचे अधिकार राहतील.
१०. सदर संस्था संचालक, तंत्रशिक्षण यांच्या निगंत्रणाखाली राहिल व संबंधित अभ्यासक्रमांच्या परीक्षा कुलसचिव, मुंबई विद्यापीठ, मुंबई यांच्याकडून घेतल्या जातील.
११. संस्थेला कुलसचिव, मुंबई विद्यापीठ, मुंबई यांची सदर अभ्यासक्रमासाठी संलग्नता घ्यावी लागेल.
१२. सदर अभ्यासक्रमाचे प्रवेश शैक्षणिक वर्ष २०१०-११ साठी प्रवेश नियमात विहीत केलेल्या तरतुदीनुसार केंद्रभूत प्रवेश प्रक्रियेद्वारे करण्यात येतील.
१३. विद्यार्थ्यांना प्रवेश देताना त्यांच्याकडून रकमेच्या स्वरूपात कॅपिटेशन फी किंवा इतर कोणत्याही स्वरूपात देणगी स्विकारता येणार नाही, तसेच प्रवेश गुणवत्तेनुसार करणे बंधनकारक आहे.
१४. रॅगिंग संदर्भात मा.सर्वोच्च न्यायालयाचे निर्देश व महाराष्ट्र प्रोव्हिशन ऑफ रॅगिंग ॲक्ट, १९९९ यांची कठोरपणे अंमलबजावणी करणे संस्थेला बंधनकारक आहे.
१५. संचालनालयाच्या माहिती तंत्रज्ञान विकासाकडून दिलेल्या संकेत क्रमांक व पासवर्डद्वारे शिक्षण शुल्क समितीने निश्चित केलेल्या शुल्कासंबंधीत व संस्थेची इतर सर्व बाबीसंबंधीची माहिती संस्था वेळोवेळी अद्ययावत करतील.
१६. शासनाने, या संचालनालयाने कुलसचिव, मुंबई विद्यापीठ, मुंबई व अखिल भारतीय तंत्रशिक्षण परिषद नवी दिल्ली यांनी वेळोवेळी ठरवून दिलेल्या अटी व शर्तीचे संस्था उल्लंघन करीत असल्यास सदरची संस्था बंद करण्याचे अधिकार अखिल भारतीय तंत्रशिक्षण परिषदेच्या शिफारशीनुसार शासनास राहतील.

उपरोक्त सर्व अटी व शर्ती आपणास बंधनकारक राहतील.

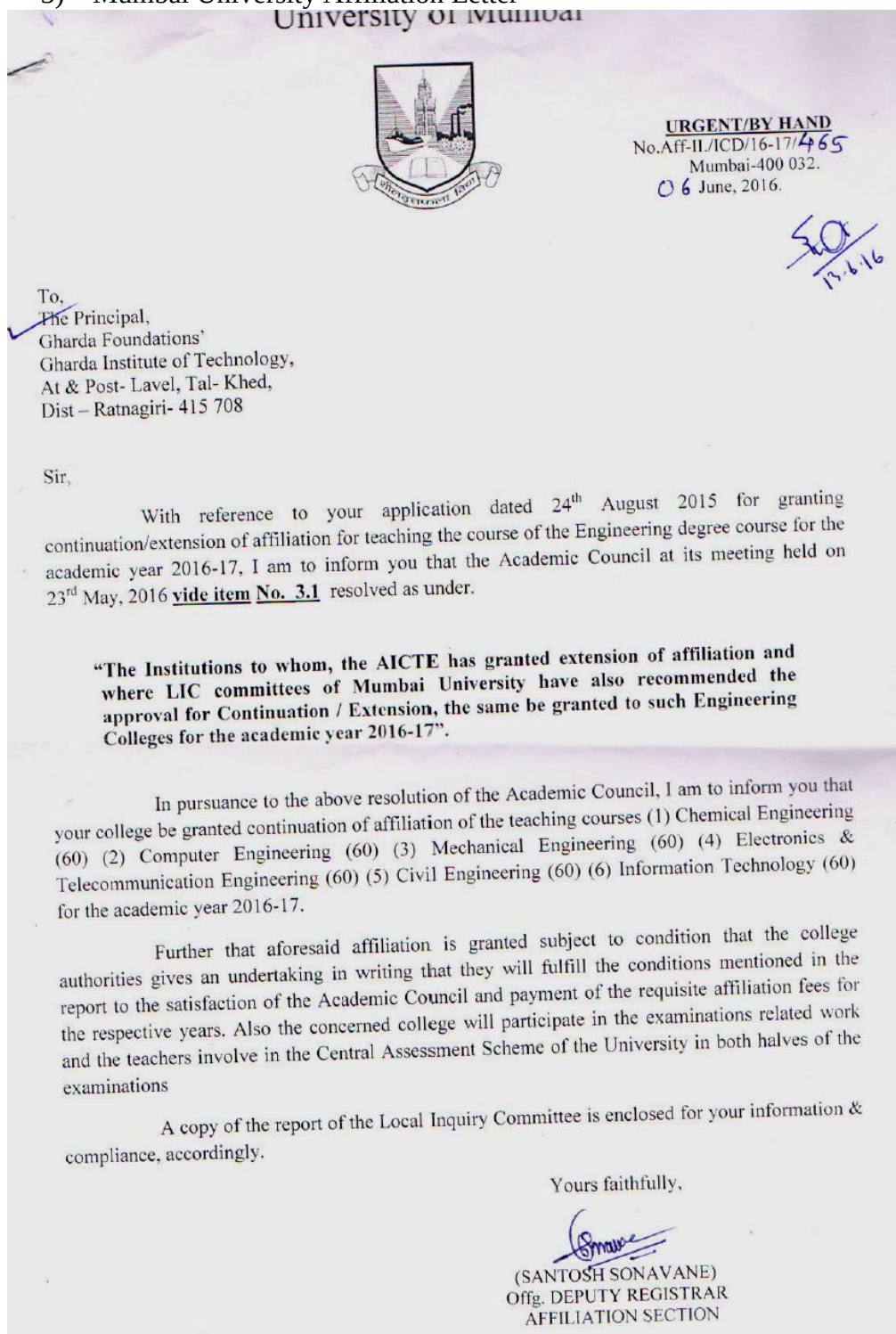

(डॉ.सु.का.महाजन)

प्र. संचालक, तंत्रशिक्षण संचालनालय, म.रा., मुंबई.

प्रत,

१. मा. सचिव, महाराष्ट्र शासन, उच्च व तंत्रशिक्षण विभाग, मंत्रालय विस्तार भवन, मुंबई यांना संदर्भाधीन शासन निर्णयाच्या संदर्भात माहितीसाठी सादर.
२. मा.कुलसचिव, मुंबई विद्यापीठ, मुंबई यांना माहिती व योग्य कार्यवाहीसाठी.
३. सहसंचालक, तंत्रशिक्षण विभागीय कार्यालय, मुंबई यांना माहितीस्तव.
४. कार्यासन क्र.२-अ, मुख्य कार्यालय, मुंबई.
५. कार्यासन क्र.३ (आय.टी.सेल), मुख्य कार्यालय, मुंबई यांना माहिती व योग्य कार्यवाहीसाठी.
६. निवड नस्ती.

3) Mumbai University Affiliation Letter



8. Declaration by Head of the Institute:

GF GHARDA
FOUNDATION

GIT GHARDA
INSTITUTE OF
TECHNOLOGY

**GHARDA FOUNDATION'S
GHARDA INSTITUTE OF TECHNOLOGY**

(Approved by AICTE, New Delhi. DTE. Maharashtra State & Affiliated to Mumbai University)

Ref No.: GIT/NAAC/2016/719
Date: 27th September, 2016

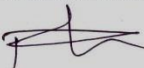
DECLARATION BY THE HEAD OF THE INSTITUTE

I certify that the data included in this self study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the Peer Team visit.

For GHARDA FOUNDATION'S
GHARDA INSTITUTE OF TECHNOLOGY



Dr. Pramod S. Joshi
Principal



A/P Lavel, Tal. Khed. Dist. Ratnagiri. PIN - 415 708. M.S Tel.: 02356-262795-99. Telefax. : 02356-262980
E-mail : principal@git-india.edu.in Website : www.git-india.edu.in

9. Certificate of Compliance

	GHARDA FOUNDATION'S GHARDA INSTITUTE OF TECHNOLOGY (Approved by AICTE, New Delhi. DTE, Maharashtra State & Affiliated to Mumbai University)	
Ref. No.GIT/NAAC/2016/721 Date:27th September, 2016		
Certificate of Compliance		
This is to certify that Gharda Foundation's Gharda Institute of Technology fulfils all norms		
1. Stipulated by the affiliating University and/or 2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and 3. The affiliation and recognition [if applicable] is valid as on date.		
In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.		
It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.		
In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.		
For GHARDA FOUNDATION'S GHARDA INSTITUTE OF TECHNOLOGY  Dr. Pramod S. Joshi Principal 		
A/P Lavel, Tal. Khed. Dist. Ratnagiri. PIN - 415 708. M.S Tel.: 02356-262795-99. Telefax. : 02356-262980 E-mail : principal@git-india.edu.in Website : www.git-india.edu.in		

