



Gharda Foundation's
GHARDA INSTITUTE OF TECHNOLOGY

NEWSLETTER

January to June, 2021



“Education is the movement from darkness to light”

Padmashri Dr. K H Gharda

Gharda Foundation's GHARDA INSTITUTE OF TECHNOLOGY

Introduction

The principle objective of the Gharda Foundation is "To carry on activities for the benefits and development of residents of rural India by application of all suitable means available with focus on issues like health, literacy, non formal education, social awareness, agriculture, technical education etc. on its own or by joining hands or by helping like minded NGO's ".

Establishment of Gharda Institute of Technology in a typical rural sector is also a step in line with the philosophy of Gharda Foundation.

GIT has provided good infrastucture, modern equipments, advanced laboratories, experienced & dediacted teachers, modified syllabus to suit changing environment, hands on workshop by collaborating with foreign universities and arranging for pre-entrance preparatory workshops.

All this provided at a reasonable cost may be with arrangement of loan facilities with subsidized interest rates. Hence the said institute within a couple of years emerged as a premier institute in the eyes of government & businessmen.

Padma Shree Dr. K.H. Gharda

A hard core research scientist who built Gharda Chemicals which introduced several new products in India with indigenous technology.

Keki Hormusji Gharda born on 25th September 1929, is a prominent Indian chemical engineer, chemist and entrepreneur. 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 pigments.

Dr. Gharda acquired a Bachelor of Science degree from Mumbai University's Department of Chemical Technology. He then obtained a Master's degree in chemical engineering from the University of Michigan at Ann Arbor. Following the defence of a doctoral thesis, he received a Ph.D. in chemistry from the University of Oklahoma.

Upon his return to India, Dr. Gharda established Gharda Chemicals, which is today one of the largest agrochemical companies in India. For his contribution to chemistry and chemical engineering, Dr. Gharda is a recipient of the American Institute of Chemists's 'Chemical Pioneer' award. He also got the Federation Of Indian Chambers Of Commerce And Industry (FICCI) Award For Research And Technology For The Development And Commercialization Of Poly Ether Ether Ketone (PEEK) At The Hands Of The then President Of India, APJ Abdul Kalam.

Dr. Keki Gharda is an alumnus of St. Stanislaus High School, Bandra, Mumbai. He still lives in Bandra.

Gharda Foundation's

GHARDA INSTITUTE OF TECHNOLOGY

Vision Statement

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

Mission Statement

Develop skills to apply knowledge to profession for betterment of society.

Impart knowledge through relevant curricula.

Create awareness and understanding of continuous learning.

DEPARTMENT OF CIVIL ENGINEERING

Vision

**To develop individual as a proficient Civil Engineer
with social responsibility**

Mission

**Impart quality education through need-based
curriculum in the academic program**

**Develop skills to apply knowledge to chosen
profession**

**Create awareness, understanding of continuous
learning and responsibility towards society and
environment.**

MESSAGE FROM TRUSTEE

I am delighted to offer before you the News Letter of the Civil Engineering Department. My warm wishes and congratulations to the staff and students for achieving good academic performances and continuing tradition of good results. Still all of you will agree that best is that to be achieved and we all have to work hard with honesty, dedication and commitment towards betterment of student community. Under the guidance of Dr. K H Gharda, GIT has become a leading engineering institute in University of Mumbai. A lively, energetic, study friendly atmosphere with the support.

FROM THE PRINCIPAL's DESK

Prof. Dr. S H Gharat

We feel privileged in publishing the edition of News Letter of the Civil Engineering Department. I would like to place on record my gratitude and heartfelt thanks to all those who have contributed to make this effort a success. There has been a continued increase in the number of activities of the students and the institute over the years. The students and staff of the institute are motivated in scientific activities at the state and national level. I am thankful to the authors who have send their articles and all the readers who will be reading this News Letter of the Civil Engineering Department.

MESSAGE FROM THE HEAD OF THE DEPARTMENT

Prof. Dr. S K Patil

We feel proud in publishing the Newsletter in order to give the information about the activities on going in the Civil Engineering Department of Gharda Institute of Technology. Through the Publication of this Newsletter the reader will be able get the overview of the various activities such as student participation, Faculty Contribution in the departments along with their special achievements in the Field of Civil Engineering.

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INTRODUCTION

Civil Engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the naturally and artificially built environment, including works like roads, bridges, canals, dams, airports, sewerage systems, pipelines and railways. The Department of Civil Engineering in GIT was established in 2010 with an objective of adherence to the institute's vision and mission of providing multi-skilled Civil engineers to the society for its betterment. To achieve this objective our department is facilitated with the availability of well qualified and experienced faculty of various specializations in Civil Engineering. This is complimented by state of art laboratories of Concrete Technology, Geo-technical Engineering, Surveying, Engineering Geology, Environmental Engineering and Transportation Engineering. Our department has a provision of a smart class room with provision of audio-visual aids like smart interactive board, computer, LCD projector, etc. in order to enhance the teaching quality.

Our faculty members are the alumni of prestigious bodies like Indian Institute of Technology, Institute of Chemical Technology (ICT), Sardar Patel College of Engineering (Andheri), various Government Engineering Colleges, and renowned Institutes of Engineering. Every faculty holds excellent academic record in their respective specializations. Three faculty members have already been awarded with PhD and two more have newly enrolled for the same.

Students are the prime focus of our department and in order to nurture their engineering requirements our faculty is always involved in various activities like attending and conducting training workshops, conducting various technical events for the students like "Sthapatyam".



Front view of Civil Engineering Department, GIT (Lavel)

The report as follows depicts various achievements of our department which certainly are in confirmation with our Institute's vision and mission. At our department, as rightly said by Winston Churchill, **"We shape our buildings, thereafter they shape us"**.



Faculty of Civil Department at Outreach Centre for Indian Institute of Remote Sensing of ISRO

ONLINE INDUSTRIAL SITE VISIT

A site visit is organized to the students of TE Civil engineering students under the subject Design and Drawing of Steel Structures on 20/4/2021. The site visit was planned at Shenoli railway station, Shenoli, Tal- Karad, Dist- Satara.

The main objective of this online site visit was to understand different types of steel shapes and to get information about the practical use of engineering steel shapes.

The main reason to choose this site because site is under construction where used the different parts of steel structures considered in subject. The site selected considering points like under developed or constructed site which have different structural parts in incomplete mode. So, easy to understand the internal arrangement as well as different types of connections with packages or provided gaps.



PROGRAMS UNDER UNNAT MAHARASHTRA

ABHIYAN/ UNNAT BHARAT ABHIYAN (UMA/ UBA)

I]. Understanding and Co-Learning from the Participating Institutes in Implementing Unnat Bharat Abhiyan - Online Mode on 5th December 2020. Attended by representatives of IIT Bombay, College of Agriculture Dapoli, Sawarde College and many institutes overall Maharashtra under UBA

Purpose of the programmes: Streamline the process of working under Unnnat Bharat Abhiyan

Outcome and special highlights of the programme: Village development

Speakers from experienced colleges under UBA shared their working strategies for village survey along with work distribution. Also had a region wise discussion on the regional challenges and difficulties faced with possible solution.

II]. Training on JYS assessment to GIT staff & Students - by Prof. V. R. Kasar &Dr. Y. R. Kulkarni, Online Mode - 14th March 2021

Attended byJYS Committee members as following

1. Prof.S.S.Gujrathi (Organizer of the Meeting)
2. Prof.M.A.Khandke
3. Dr.N.A.Kolekar,
4. Prof.V.R.Kasar,
5. Dr.Y.R.Kulkarni
6. Dr.R.R.Bane,
7. Prof.P.V.Oak,
8. Prof.V.D.Kamble(NSS Program Officer),
9. Prof.J.V.Mapara,
- 10.Prof.A.V.Phanse
- 11.Along with 56 TE+6 SE Civil Engineering students





Purpose of the programme: To train faculties and students to work for Third Party Assessment of JalyuktShivar Works of work done under Ratnagiri District

Outcome and special highlights of the programme: Working/acting as a consultant for Third Party Assessment of JalyuktShivar Works of work done under Ratnagiri District.

The purpose of the short training session was to understand the strategy which is to be performed on the field while assessing the JSA works for first site visit planned on 16th March 2021 to Nivendi and Malgund Villages of Ratnagiri. Necessary survey instruments, precautions required to be taken for the corresponding measurement of different structures involved in this Third Party assessment of JSA works were stratified.

Groups of the faculties and the students were planned for better understanding and better execution of different steps involved in the Third Party Audit of JSA

III]. Second UBA follow-up Meeting with Ratnagiri PI's

Attended by IIT Bombay, College of Agriculture Dapoli, Sawarde College, Rajiv Gandhi Institute of Technology, Mumbai, RMCET Devrukh and GIT representative Online Mode, 29th April 2021

Purpose of the programme: Follow up meeting to understand working status of colleges in Pandemic

Outcome and special highlights of the programme: Covid awareness in villages Village adoption guidelines were discussed. Covid awareness and precautionary measures mini workshops for villagers to be undertaken. Follow up of seed money discussed.

IV]. Follow up meeting of Third-Party Assessment of JalyuktShivar Works by UMA IIT Bombay

Attended by Dr. Milind Sohoni, Dr. Jitendra from IIT Bombay CTARA department and Dr. Yogesh Kulkarni. Prof. Vivek Kasar and Prof. Snehal Gujarathi from GIT, Online Mode, 9th April 2021

Purpose of the programmes: Smooth working of Third-Party assessment of Jalyukt Shivar Works



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Outcome and special highlights of the programme: Doubt Clarification and proceedings of work due incomplete data on MRSAC website of Ratnagiri district of Jalyukt Shivar works and guidelines for smooth function of Third-Party Assessment of Jalyukt Shivar works

Dr. Milind Sir guided to draft an Email and a letter as well to DSAO Ratnagiri asking for complete data on MRSAC website of Ratnagiri district of Jalyukt Shivar works. Sample report to be submitted to IIT CTARA Bombay for verification and modification.

Dr. Jitendra Sir guided and helped with demographic file and census map of Ratnagiri District.

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EXPERT LECTURES AT DEPARTMENT LEVEL

Expert lecture on "Modern Form work Technology"

Date: 27 March 2021

Time: 11:00 AM

Resource person: Mr. James Dsouza, Assistant General Manager, Tata Projects, Head of Engg-Formwork

Faculty Coordinator: Dr. Y. R. Kulkarni

Organizer: CASTLE Committee, Department of Civil Engineering, GIT.

OBJECTIVE: On 27th March 2021, An Expert Lecture on “Modern Formwork Technology” was conducted by Mr. James Dsouza in Civil Engineering department of Gharda Institute of Technology to increase the knowledge on it. It was held for students of civil engineering department. To provide an opportunity to the students to know about various upcoming technological trends and advancements in this field.

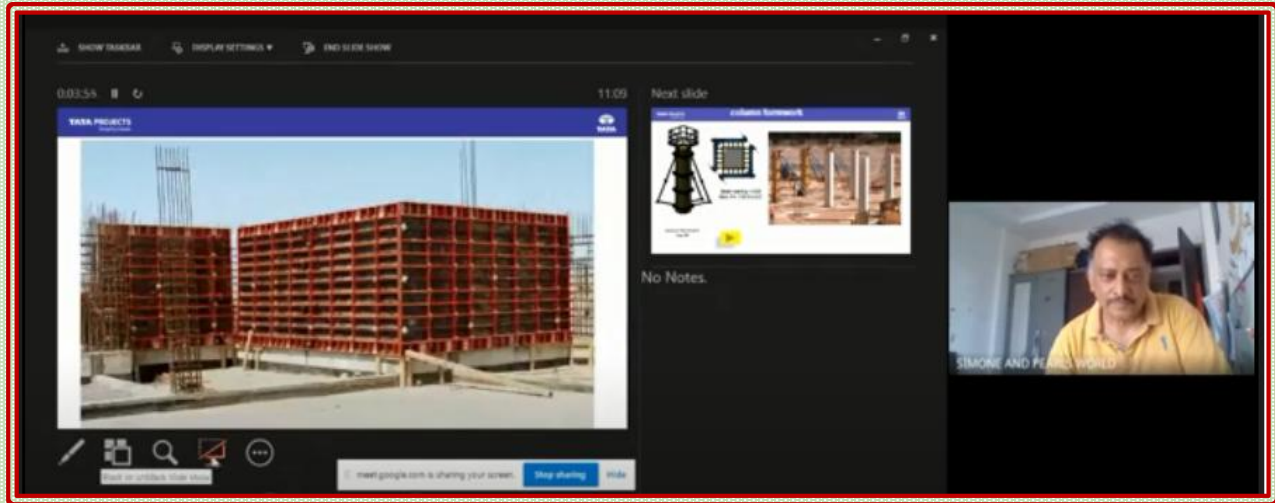
PROGRAM SCHEDULE: The session was started at 11:00 am.

ABOUT THE TOPIC:

In Civil engineering, formwork is most important which play a role to provide proper shape to concrete and enhance the speed of construction. A good formwork ensures a quality in the final product. The formwork is of different types like timber, steel, aluminum etc.

In new construction practice used for vertical panels, column, slab formwork system, beam system etc. He explained the benefits of use of advanced formwork systems like speedy constructions with more correctness, use for repeated type of construction, erection of formwork for slab construction with animation.

Expert explained in detail the role of new techniques of formwork for different types of structures for different sites. In new techniques he described the automatic climbing system for high rise buildings, aluminum scaffolding, over-bridge pier construction, bridge girder casting, tunnel lining casting, cable stay bridge, other industrial structures, with help animation he explained total building construction steps and role of new formwork techniques.



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DETAILS OF THE ACTIVITY ORGANIZED UNDER

NATIONAL SERVICE SCHEME

“Awareness on Covid-19”

Date- 20th April 2021, Time-8.00pm to 9.00 pm

Resource Person- Dr.Mahesh Mortade,(M.B.B.S.) Medical Officer, Primary Health Center, Rajapur

Session Conducted Via-Online(Google Meet Platform)

Following Points were discussed during the Session

- 1) The primary objective of the session to create awareness related to the current situation of Corona Outbreak. To discuss the various aspects related to Corona Virus.
- 2) Dr. Mahesh Mortade Sir has explained in a detailed manner all the aspects of Covid-19. At the starting of their talk, Doctor has explained in detail about the sources of transformation of the disease. Various sources which are responsible for spreading the disease were discussed in detail by the speaker. Information about the common symptoms of corona virus and spreading of the same in successive stages has been shared by the speaker.
- 3) Importance of doing testing is a key to fight an overcome the disease like corona has been shared to the audience in a very nice manner. If you feel any of the symptoms you should contact the testing centre immediately informed by doctor. Details related to test and testing centres available especially in Ratnagiri district has been discussed with the audience.
- 4) Importance of positivity to fight this disease as well as strong belief in yourself with proper testing and medication anybody who has got this virus can be cured completely. This point was highlighted by the speaker at the last.

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Total 110 persons including the Arts, Science, Commerce as well as Engineering colleges students and faculties specially from the Ratnagiri district attended the session. Feedback of the session was taken in the form of google form responses.

One Week Online Competition on “Awareness on COVID-19” under the National Service Scheme Unit

Date - (22nd April 2021 to 28th April 2021), Online MODE

In order to create awareness about Covid-19 an awareness week has been decided to organize under the National Service Scheme unit of Gharda Institute of Technology. Different events were organized such as 1) Poster Making, 2) Short Video Making, Selfie with slogan, poems. Total 121 students from different colleges participated and submitted their responses via google form.



Name- Amisha S. Madav TEIT FAMT

Stand Together

In light of the troubles we have today,
There's just a few things I'd like to say
Although the days of this feel bore and long,
Together as a country we should stand strong
Share your kindness and your love,
Not the time to be mean, push and shove
It's time to say tight,
Everything will become definately right
Now it's time to stand together,
Not by standing together
Stay home Stay Safe,
Be Safe and keep others safe

Name: Arpita Ashok Gavanang
Class: SE Civil
College Name: Ghorda Institute of Technology,
Lavel.

LET'S BEAT CORONAVIRUS!



Avoid crowds.



Wash hand frequently.



Wear a mask properly.



Don't touch eyes, nose or mouth.



Cover your coughs and sneezes.



Use sanitizer.



Maintain social distance.



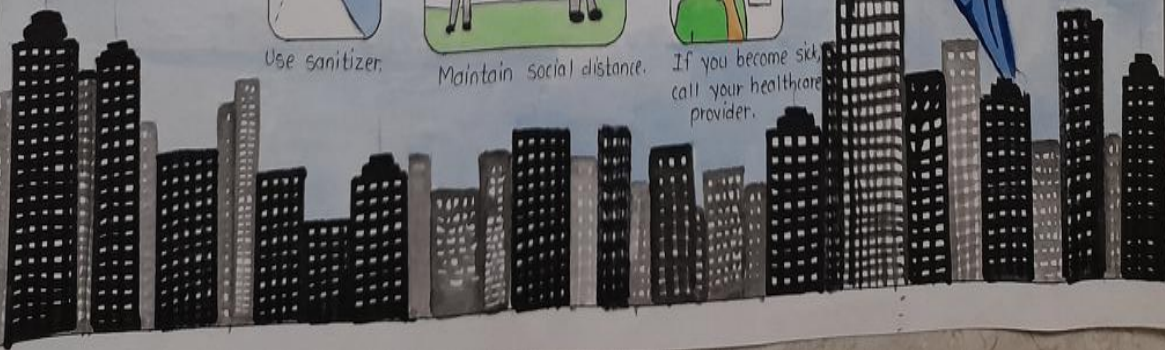
If you become sick,
call your healthcare
provider.



Do not travel
unless necessary.



Stay home.





DETAILS OF THE ACTIVITY UNDER TRAINING

AND PLACEMENT

Name of Student	Company
BATGERI NIKHIL SUNIL RAJASHRI	MGP SITE, MUMBAI
CHIKTE RIYAZ MUNAWWAR FIRDOS	ICON AND ESCON GROUP SITE ENGINEER, DAPOLI
DEVASIA RONAK ROY ELCY	SITE ENGINEER, LOTE
GAVANANG SIMRAN ASHOK ASMITA	SUPRIYA CHEMICALS, LOTE
KAMBLE PRASHANT NARAYAN NITA	UNIQUE INFRA, Lote
KAMBLE SHAMBALA SUDHAKAR ASHWINI	Moksh Tech Company, Gujarat
PALAYE VINAYAK VASUDEV SWATI	S.M. REALTIES, MUMBAI
PALE PRASHANT RAMESH PRAMILA	AAKAR CONSTRUCTION, RATNAGIRI
PATNE YASH SHANTIKUMAR MANISHA	PREMIER CIVIL CONTRACTS, GOA
RANE PRAVIN PRAKASH PRATIBHA	DDS BUILDCON, KALAMBASTE
SAIYAD FAIZAN MAHMED MUNIRA	LECTURER AT SAWARDE POLYTECHNIC
SONAWANE ATUL BHAU CHAMPA	JSW, JAIGAD
TAMHANKAR MANTHAN BAJARANG SADHANA	RCC DESIGN COMPANY, KUDAL

CONSULTANCY AT CIVIL ENGINEERING

DEPARTMENT

As per our vision and mission, along with providing knowledgeable Civil Engineers, we have extended our service to the society by offering in-house consultancy related to Concrete Technology, Geo-Technical Engineering, Surveying and Environmental Engineering as and when required. We serve following clients:

Our prominent clients are,

Larsen & Toubro Irrigation Department Konkan Railway National Highway Authority of India Tata Projects Limited	Dow Agro-sciences, Lote Paranjape Schemes, Pune CONMIX Infra Tech., Chiplun Gharda Chemicals Ltd., MIDC Lote. APTCON Developers, Chiplun	Tirumala Enterprises, MIDC Lote Chiplun Mozac Tiles, Kherdi (Chipluin) ESSDEE Infrastructure Pvt. Ltd. Shivam Construction, Ratnagiri.
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CIVIL ASSOCIATION OF STUDENTS FOR TECHNICALLY LEADING ENGINEERS (CASTLE)

It is the Students' Association of Civil Engineering students which is based on the main objective of promoting professional awareness among civil engineering students by encouraging a sense of unity and integrity through the combined efforts of all engineers working together in both technical and social activities.



Shiv Murti Sthapana



Gharda Foundation's
GHARDA INSTITUTE OF TECHNOLOGY

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