

1.3.1

Part A: Courses which address the Professional Ethics, Gender, Human Values into the Curriculum

Programme Code	Programme Name	Name of Professional Ethics, Gender, Human values course	Course Code	Year of offering	Description
CH, ME, CP, ET, CE	Chemical Engineering, Mechanical Engineering, Computer Engineering, Electronics and Telecommunication Engineering, Civil Engineering.	Professional Communication and Ethics- I	FEC206	2020-21 2019-20	<p>This course helps</p> <ol style="list-style-type: none"> 1. To demonstrate the fundamental concepts of interpersonal and professional communication. 2. To encourage active listening with focus on content, purpose, ideas and tone. 3. To facilitate fluent speaking skills in social, academic and professional situations. 4. To train in reading strategies for comprehending academic and business correspondence. 5. To promote effective writing skills in business, technology and academic arenas. 6. To inculcate confident personality traits along with grooming and social etiquettes.

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CP	Computer Engineering	Business Comm. & Ethics II	CSL505	2020-21 2019-20 2018-19	Objectives 1. To inculcate professional and ethical attitude at the work place 2. To enhance effective communication and interpersonal skills 3. To build multidisciplinary approach towards all life tasks 4. To hone analytical and logical skills for problem-solving.
CE	Civil Engineering	Professional Communication and Ethics-II	CE-L505	2020-21	Objectives 1 Discern and develop an effective style of writing important technical/business documents. 2 Investigate possible resources and plan a successful job campaign. 3 Understand the dynamics of professional communication in the form of group discussions, meetings, etc. required for career enhancement. 4 Develop creative and impactful presentation skills. 5 Analyze personal traits, interests, values, aptitudes and skills. 6 Understand the importance of integrity and develop a personal code of ethics.
ET	Electronics and Telecommunication Engineering	Business Communication & Ethics	ECL503	2020-21 2019-20 2018-19	Objectives 1 To inculcate professional and ethical attitude. 2 To enhance effective communication and interpersonal skills. 3 To build multidisciplinary approach towards all life tasks.

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ET	Electronics and Telecommunication Engineering	Business Communication & Ethics	ETC506	2017-18 2016-17	<p>Objective</p> <ol style="list-style-type: none"> 1 To inculcate in students professional and ethical attitude, effective communication skills, teamwork, multidisciplinary approach and an ability to understand engineer's social responsibilities. 2 To provide students with an academic environment where they will be aware of the excellence, leadership and lifelong learning needed for a successful professional career. 3 To inculcate professional ethics and codes of professional practice and leadership. 4 To prepare students for successful careers that meets the global Industrial and Corporate requirement' provide an environment for students to work on Multidisciplinary projects as part of different teams to enhance their team building capabilities like leadership, motivation, teamwork etc.
CH	Chemical Engineering	Business Communication & Ethics	CHC505	2020-21 2019-20 2018-19	<p>Objectives</p> <ol style="list-style-type: none"> 1 To inculcate in students professional and ethical attitude, effective communication skills, teamwork, multidisciplinary approach, and an ability to understand Engineers' social responsibilities 2 To provide students with an academic environment where they will be aware of the excellence, leadership and lifelong learning needed for a successful professional career 3 To inculcate professional ethics and codes of professional practice 4 To prepare students for successful careers that meets the global Industrial and Corporate requirement
ME	Mechanical Engineering	Business Communication and Ethics	MEL506	2020-21 2019-20 2018-19	<p>Objectives</p> <ol style="list-style-type: none"> 1. To inculcate professional and ethical attitude at the workplace 2. To enhance effective communication and interpersonal skills 3. To build multidisciplinary approach towards all life tasks 4. To hone analytical and logical skills for problem-solving

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ME	Mechanical Engineering	Business Communication and Ethics	MEL501	2017-18 2016-17	<p>Objectives</p> <ol style="list-style-type: none"> 1. To inculcate in students professional and ethical attitude, effective communication skills, teamwork, skills, multidisciplinary approach and an ability to understand engineer's social responsibilities. 2. To provide students with an academic environment where they will be aware of the excellence, leadership and lifelong learning needed for a successful professional career. 3. To inculcate professional ethics and codes of professional practice 4. To prepare students for successful careers that meets the global Industrial and Corporate requirement' provide an environment for students to work on Multidisciplinary projects as part of different teams to enhance their team building capabilities like leadership, motivation, teamwork etc.
CE	Civil Engineering	Business and Communication Ethics	CE-C507	2018-19 2017-18	<p>Objectives</p> <ol style="list-style-type: none"> 1 To inculcate professional and ethical attitude. 2 To enhance effective communication and interpersonal skills. 3 To build multidisciplinary approach towards all life tasks
CE	Civil Engineering	Business and Communication Ethics	CE-C506	2017-18 2016-17	<p>Objectives</p> <ol style="list-style-type: none"> 1.To inculcate in students' professional ethical attitude, effective communication skills, teamwork, skills, multidisciplinary approach an ability to understand engineer 's social responsibilities. 2. To provide students with an academic environment where they will be aware of the excellence, leadership lifelong learning needed for a successful professional career. 3. To inculcate professional ethics codes of professional practice 4. To prepare students for successful careers that meets the global Industrial Corporate requirement 'provide an environment for students to work on Multidisciplinary projects as part of different teams to enhance their team building capabilities like leadership, motivation, teamwork etc.

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CP	Computer Engineering	Business Comm. & Ethics	CSL505	2017-18 2016-17	Objectives 1. To inculcate professional and ethical attitude at the work place 2. To enhance effective communication and interpersonal skills 3. To build multidisciplinary approach towards all life tasks 4. To hone analytical and logical skills for problem-solving.
CH, ME, CP, ET, CE	Chemical Engineering, Mechanical Engineering, Computer Engineering, Electronics and Telecommunication Engineering, Civil Engineering.	Communication Skills	FEC206	2018-19 2017-18 2016-17	Objectives 1. To acquaint the students with appropriate language skills with the purpose of improving the existing ones – LSRW 2. To make the learners understand the importance and effective use of non-verbal communication 3. To make the learner proficient in public speaking and presentation skills 4. To guide and teach the students to utilize the principles of professional business and technical writing for effective communication in the global world 5. To make the learner capable of creating official content digitally for further communication in the corporate environment.
CH	Chemical Engineering	Business Communication & Ethics	CHC506	2017-18 2016-17	Objectives 1 To inculcate in students professional and ethical attitude, effective communication skills, teamwork, skills, multidisciplinary approach and an ability to understand engineers' social responsibilities. 2 To provide students with an academic environment where they will be aware of the excellence, leadership and lifelong learning needed for a successful professional career. 3 To inculcate professional ethics and codes of professional practice. 4 To prepare students for successful careers that meets the global Industrial and Corporate requirement provide an environment for students to work on Multidisciplinary projects as part of different teams to enhance their team building capabilities like leadership, motivation, teamwork etc.

Part B: Courses which address the Environment and Sustainability into the Curriculum Environmental course in various branch

Programme Name	Programme Code	Name of Environmental course	Course Code	Year of offering	Description
CE	Civil Engineering	Architectural Planning & Design of Buildings	CEC304	2020-21	<p>Objectives</p> <ol style="list-style-type: none"> 1) To remember and recall the intricate details of building design and drawing. 2) To gain an understanding of the basic concepts of building design and drawing. 3) To learn how to apply professional ethics and act responsibly pertaining to the norms of building design and drawing practices, rules, regulation and byelaws, Building codes 4) To identify, analyze, research literate and solve complex building design and drawing problems. 5) To have new solutions for complex building design and drawing problems. 6) To effectively communicate ideas, related to building design and drawing, both orally as well as in written format like reports & drawings.
CE	Civil Engineering	Environmental Engineering, I	CE-C504	2020-21 2019-20 2018-19	<p>Objectives</p> <ol style="list-style-type: none"> 1.To prepare students who can accomplish planning, design and construction of water systems and related infrastructural facilities. 2 To provide the necessary knowledge on quality of water, concepts in the field of water supply and treatment. 3 To impart necessary skill for the design and operation of water treatment plants. 4 To introduce new developments in the field of water treatment and to inculcate the students with sound theoretical knowledge in engineering sciences as well as in research consultancy skills. 5 To give a practical oriented knowledge so that they can give the practical solutions to environmental problems in the society and also to provide basic understanding of air pollution and monitoring. 6 To impart positive responsive vocational attitudes, initiative creative thinking in their mission as an Engineers. Also provide the basic understanding of noise pollution.

Programme Name	Programme Code	Name of Environmental course	Course Code	Year of offering	Description
CE	Civil Engineering	Environmental Engineering, II	CE-C604	2020-21 2019-20 2018-19	<p>Objectives</p> <ol style="list-style-type: none"> 1.To understand and explain the role of sanitation and its relation to public health and environment. 2 To provide knowledge of wastewater collection system, characteristics of wastewater. 3 To provide students the necessary knowledge and concepts of advancements/emerging techniques of treatment in physical, chemical and biological treatment processes. To provide students prerequisite knowledge necessary for higher studies and research in the field of wastewater treatment. 4 To study the appropriate treatment, reclamation and resource recovery and re-use at both centralized and decentralized levels. Also, to study self-purification in nature. 5 To develop rational approaches towards sustainable wastewater management via sludge recovery and treatments. 6 To provide necessary skill for understanding and operation of solid waste management facilities
CE	Civil Engineering	Building Design & Drawing	CE-C404	2019-20 2018-19 2017-18	<p>Objectives</p> <ol style="list-style-type: none"> 1 To remember and recall the intricate details of building design and drawing. 2 To gain an understanding of the basic concepts of building design and drawing. 3 To learn how to apply professional ethics and act responsibly pertaining to the norms of building design and drawing practices. 4 To identify, analyse, research literate and solve complex building design and drawing problems. 5 To design new solutions for complex building design and drawing problems. 6 To effectively communicate ideas related to building design and drawing, both orally as well as in written format like reports & drawings.
CE	Civil Engineering	Environmental Engineering, I	CE-C605	2017-18 2016-17	<p>Objectives</p> <ol style="list-style-type: none"> 1 To prepare students who can accomplish planning, design & construction of water systems & related infrastructural facilities.

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					<p>2 To give a practical orientation to so that they can give practical solutions to environmental problems in our society.</p> <p>3 To inculcate the students with sound theoretical knowledge in engineering sciences as well as in research consultancy skills.</p> <p>4 To impart positive responsive vocational attitudes, initiative creative thinking in their mission as engineers.</p>
CE	Civil Engineering	Environmental Engineering, II	CE-C704	2017-18 2016-17	<p>Objectives</p> <p>1.To understand and explain the role of sanitation in the urban water cycle and its relation to public health and environment.</p> <p>2 To develop rational approaches towards sustainable wastewater management via pollution prevention.</p> <p>3 To understand the relevant physical, chemical and biological processes and their mutual relationships within various sanitation components.</p> <p>4 To contribute to the development of innovative approaches to the provision of adequate and sustainable sanitation services in the country.</p> <p>5 To study the appropriate treatment, Reclamation and resource recovery and re-use at both centralized and decentralized levels.</p>
CH, ME, CP, ET, CE	Chemical Engineering, Mechanical Engineering, Computer Engineering, Electronics and Telecommunication Engineering, Civil Engineering.	Environmental studies	FEC106	2018-19 2017-18 2016-17	<p>Objectives</p> <p>1. Creating the awareness about environmental problems among students.</p> <p>2. Imparting basic knowledge about the environment and its allied problems.</p> <p>3. Developing an attitude of concern for the environment. 4. Motivating students to participate in environment protection and environment improvement.</p> <p>5. Acquiring skills to help the concerned individuals in identifying and solving environmental problems.</p>
CE	Civil Engineering	Building Design & Drawing – I	CE-C404	2016-17	<p>Objectives</p> <p>1. To understand the concept, aspects, principles of planning; and designing of building structures.</p> <p>2. To understand the various extant building bye-laws framed by the various authorities, development and control rules satisfying</p>

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					orientation, zoning and functional requirements for different types of building structures. 3. To study the provisions made in the relevant Indian Specifications pertaining to the practice for architectural drawings. 4. To understand the various components of different types of civil engineering structures and drawings along with allied contents thereof and further, interpretation thereof. 5. To prepare various types of drawings for the building structures planned and designed satisfying the functional and market requirements. Detailed Sylla
CE	Civil Engineering	Building Design & Drawing – II	CEC503	2016-17	Objectives 1. To understand the Planning concepts, rules, regulations, various bye-laws of local administration/authorities with reference to all types of public buildings. 2. To understand the application of bye-laws in Planning, Designing Drawing of all types of public buildings. 3. To understand all the concepts involved in drawing the different Perspective drawings for public buildings, workshops. 4. To prepare various types of drawings for the public building structures planned designed, satisfying the functional market requirements. 5. To study & apply the provisions made in the relevant Indian Specifications pertaining to the practice for public buildings, the society needs for overall development.