List & Description of courses which address the Professional Ethics, Gender, Human Values, Environmental and Sustainability into the Curriculum

CIVIL ENGINEERING DEPARTMENT

S.NO	NAME OF THE COURSE	YEAR	SEM
1	**Project Planning & Construction Management**	IV	VIII
	Description	This course guides the students towards the planning of a project in accordance with the available resources. With the help of different types of visual graphs and figures one can get to know how someone can plan a project to complete in a specified interval of time by optimizing the resources. Methods such as critical path method and PERT are used to analyze the structure of the project flow in a better way and others techniques are induced to complete it on a particular time.	
2	**Professional Practices & Field Engineering Lab**	IV	VII
		This lab course helps students in preparing detailed estimates of any construction work. By introducing several methods such as center line method, long wall - short wall method one can easily calculated the dimension of a building. This subjects helps students in understanding the basic concepts of rate analysis,	

		depreciation of building, salvage value and more.	
3	**Discipline & Extra Curricular activity**	**IV**	**VIII**
		The primary goals of extracurricular activities focus on the individual student level, the institutional level, and the broader community level. These activities exist to complement the university's academic curriculum and to augment the student's educational experience. Extracurricular activities provide a setting to become involved and to interact with other students, thus leading to increased learning and enhanced development.	
4	**Communication Skills**	**I**	**I**
		This course helps students improve their professional communication in English for successful business interactions. Each chapter focuses on a particular area of communication in English: writing emails, speaking at meetings and interviews, giving presentations, and networking online. Whether a person wants to communicate to potential employers, employees, partners or clients, better English communication can help them achieve their language and professional goals. This course will focus especially on making those important connections to take the career or business to the next level.	
5	**Human Values**	**I**	**I**

		The Courses Human Values envisages to instill the ethical values and to provide the knowledge about Ethics as a subject matter. The Course Human Value Education is aimed at providing the students with knowledge on Value System and its importance in Human existence. The objective of the course is listed as: Values are socially accepted norms to evaluate objects, persons, and situations that form part and parcel of sociality. A value system is a set of consistent values and measures. Knowledge of the values are inculcated through education. It contributes in forming true human being, who are able to face life and make it meaningful.	
6	**Human Values Activities**	**I**	**II**
		Human Values involves various classroom activities through which teachers can take a measure of and improve the student's inherent qualities, including responsibility, confidence, co-operation, respect and empathy. Each activity featured as part of this innovation is focused on specific human values. The positive change in students and learning environment through all these activities can be ensured by carrying these out on a regular basis throughout the course. Activities Includes Scouts & Guides, Planning, Implementation, Surveying and many more.	
7	**Technical Communication**	**II**	**III/IV**

		In this course students will practice designing and giving strong, persuasive presentations. Students will learn how to communicate across cultures, genders, and generations, how to create a personal brand and leadership presence and how to hold effective meetings with global teams. Students will learn how to handle difficult conversations, and how to handle crisis communication; students will also learn writing skills immediately applicable in their daily activities.	
8	Social Outreach, Discipline & Extra Curricular Activities	II	III/IV
		The primary goals of extracurricular activities focus on the individual student level, the institutional level, and the broader community level. These activities exist to complement the university's academic curriculum and to augment the student's educational experience. Extracurricular activities provide a setting to become involved and to interact with other students, thus leading to increased learning and enhanced development.	
9	Technical Communication	III	IV
		In this course students will practice designing and giving strong, persuasive presentations. Students will learn how to communicate across cultures, genders, and generations, how to create a personal brand and leadership presence and how to hold effective meetings	

		with global teams. Students will learn how to handle difficult conversations, and how to handle crisis communication; students will also learn writing skills immediately applicable in their daily activities.	
10	**Disaster Management**	**IV**	**VIII**
		Disaster Management provides detailed knowledge to students on disaster preparedness, reducing the effect and rehabilitation. This course provides learners with a regional, national and international perspective on disaster management.	
11	**Solid and Hazardous Waste Management**	**III**	**VI**
		This course provides students with an overview of the municipal solid waste management situation in low- and middle-income countries. It covers key elements of the waste management system, such as its technical, environmental, social, financial and institutional aspects. Besides understanding the challenges, students will be introduced to appropriate and already applied solutions through selected case studies.	
12	**Environmental Engineering**	**III**	**VI**
		Environmental engineering is a subfield of engineering that is concerned with the protection and preservation of the environment	

		and environmental resources as well as the protection of populations from environmental threats. Environmental engineers study population growth and monitor air and water quality.	
13	**Environmental Engineering Lab**	**III**	**VI**
		The Environmental Engineering laboratory practical provides good insight into different experimental methods relevant to Environmental Engineering. In this lab we performs various test on drinker water and sewage samples to check pH value, total dissolved solids, BOD and COD, total suspended particles etc.	
14	**Environmental monitoring & Design Lab**	**IV**	**VII**
		Environmental monitoring lab uses instruments to carry out environmental baseline and compliance monitoring in all walk of sectors like petrochemical, mining, cement, highways, housing and infrastructure for EIA studies. Sampling and Testing Includes: Ambient Air, Water, Soil, Noise for Ambient and Stationary Sources, Stack Emissions, Solid and Hazardous Wastes, VOCs and Hydrocarbons, Fugitive Gas emissions, Indoor gas quality, Mercury, CO.	

List & Descriptions of courses which address the Professional Ethics, Gender, Human Values, Environmental and Sustainability into the Curriculum

COMPUTER SCIENCE & ENGINEERING

S.NO	NAME OF THE COURSE	YEAR	SEM
1	Disaster Management	IV	VII
	Description	Disaster Management provides detailed knowledge to students on disaster preparedness, reducing the effect and rehabilitation. This course provides learners with a regional, national and international perspective on disaster management.	
2	Communication skills	I	I
		This course helps students improve their professional communication in English for successful business interactions. Each chapter focuses on a particular area of communication in English: writing emails, speaking at meetings and interviews, giving presentations, and networking online. Whether a person wants to communicate to potential employers, employees, partners or clients, better English communication can help	

	Description	them achieve their language and professional goals. This course will focus especially on making those important connections to take the career or business to the next level.	
3	**Technical Communication**	**II**	**III/IV**
	Description	In this course students will practice designing and giving strong, persuasive presentations. Students will learn how to communicate across cultures, genders, and generations, how to create a personal brand and leadership presence and how to hold effective meetings with global teams. Students will learn how to handle difficult conversations, and how to handle crisis communication; students will also learn writing skills immediately applicable in their daily activities.	
4	**Social Outreach, Discipline & Extra Curricular Activities**	**II**	**III/IV**
	Description	The primary goals of extracurricular activities focus on the individual student level, the institutional level, and the broader community level. These activities exist to complement the university's academic curriculum and to augment the student's educational experience. Extracurricular activities provide a setting to become involved and to interact with other students, thus leading to increased learning and enhanced development.	
6	**Environmental**	**IV**	**VII**

	Engineering and Disaster Management		
	Description	Environmental engineering is a subfield of engineering that is concerned with the protection and preservation of the environment and environmental resources as well as the protection of populations from environmental threats. Environmental engineers study population growth and monitor air and water quality.	
8	**Factor of Human Interactions**	**IV**	**VIII**
	Description	**Factor of Human Interactions** (FHI) provide detail knowledge of process of evaluating the likely environmental impacts of a proposed project or development, taking into account inter-related socio-economic, cultural and human-health impacts, both beneficial and adverse.	

List & Descriptions of courses which address the Professional Ethics, Gender, Human Values, Environmental and Sustainability into the Curriculum

ELECTRICAL ENGINEERING DEPARTMENT

S.NO	NAME OF THE COURSE	YEAR	SEM
1	**Discipline & Extra Curricular activity**	**IV**	**VIII**
	Description	The primary goals of extracurricular activities focus on the individual student level, the institutional level, and the broader community level. These activities exist to complement the university's academic curriculum and to augment the student's educational experience. Extracurricular activities provide a setting to become involved and to interact with other students, thus leading to increased learning and enhanced development.	
2	**Communication skills**	**I**	**I**
		This course helps students improve their professional communication in English for successful business interactions. Each chapter focuses on a particular area of communication in English: writing emails, speaking at meetings and interviews, giving presentations, and networking online. Whether a person	

	Description	wants to communicate to potential employers, employees, partners or clients, better English communication can help them achieve their language and professional goals. This course will focus especially on making those important connections to take the career or business to the next level.	
3	**Human Values**	I	I
	Description	The Courses Human Values envisages to instill the ethical values and to provide the knowledge about Ethics as a subject matter. The Course Human Value Education is aimed at providing the students with knowledge on Value System and its importance in Human existence. The objective of the course is listed as: Values are socially accepted norms to evaluate objects, persons, and situations that form part and parcel of sociality. A value system is a set of consistent values and measures. Knowledge of the values are inculcated through education. It contributes in forming true human being, who are able to face life and make it meaningful.	
4	**Human Values Activities**	I	II
		Human Values involves various classroom activities through which teachers can take a measure of and improve the student's inherent qualities, including responsibility, confidence, co-operation, respect and empathy.	

	Description	Each activity featured as part of this innovation is focused on specific human values. The positive change in students and learning environment through all these activities can be ensured by carrying these out on a regular basis throughout the course. Activities Includes Scouts & Guides, Planning, Implementation, Surveying and many more.	
5	**Technical Communication**	**II**	**III/IV**
	Description	In this course students will practice designing and giving strong, persuasive presentations. Students will learn how to communicate across cultures, genders, and generations, how to create a personal brand and leadership presence and how to hold effective meetings with global teams. Students will learn how to handle difficult conversations, and how to handle crisis communication; students will also learn writing skills immediately applicable in their daily activities.	
6	**Social Outreach, Discipline & Extra Curricular Activities**	**II**	**III/IV**
		The primary goals of extracurricular activities focus on the individual student level, the institutional level, and the broader community level. These activities exist to complement the university's academic curriculum and to augment the student's	

	Description	educational experience. Extracurricular activities provide a setting to become involved and to interact with other students, thus leading to increased learning and enhanced development.	
7	**Technical Communication**	**III**	**IV**
	Description	In this course students will practice designing and giving strong, persuasive presentations. Students will learn how to communicate across cultures, genders, and generations, how to create a personal brand and leadership presence and how to hold effective meetings with global teams. Students will learn how to handle difficult conversations, and how to handle crisis communication; students will also learn writing skills immediately applicable in their daily activities.	
8	**Biology**	**II**	**IV**
	Description	Objectives of this course provides a Purpose: To convey that Biology is as important a scientific discipline as Mathematics, Physics and Chemistry. Bring out the fundamental differences between science and engineering by drawing a comparison between eye and camera, Bird flying and aircraft. Mention the most exciting aspect of biology as an independent scientific discipline.	
9	**Disaster Management**	**IV**	**VII**
		Disaster Management provides detailed knowledge to students on disaster preparedness, reducing the effect and	

	Description	rehabilitation. This course provides learners with a regional, national and international perspective on disaster management.	
10	**Neural Network**	**III**	**VI**
	Description	The course has contents to develop Know the main provisions neuro mathematics, Know the main types of neural networks, Know and apply the methods of training neural networks, Know the application of artificial neural networks, To be able to formalize the problem, to solve it by using a neural network.	
11	**Sustainable Engineering**	**IV**	**VII**
	Description	This course provides students with an overview of develop an increased awareness among students on issues in areas of sustainability, To make students understand the role of engineering and technology within sustainable development, To give students some familiarity with the methods and tools used for sustainable product-service system development, To establish in students an understanding of the role and impact of engineering activities and engineering decisions on environmental, societal, and economic well-being.	

List & Description of courses which address the Professional Ethics, Gender, Human Values, Environmental and Sustainability into the Curriculum

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

S.NO	NAME OF THE COURSE	YEAR	SEM
1	Discipline & Extra Curricular activity	IV	VII/VIII
		The primary goals of extracurricular activities focus on the individual student level, the institutional level, and the broader community level. These activities exist to complement the university's academic curriculum and to augment the student's educational experience. Extracurricular activities provide a setting to become involved and to interact with other students, thus leading to increased learning and enhanced development.	
2	Communication skills	I	I
		This course helps students improve their professional communication in English for successful business interactions. Each chapter focuses on a particular area of communication in English: writing emails, speaking at meetings and interviews, giving presentations, and networking online. Whether a person	

		wants to communicate to potential employers, employees, partners or clients, better English communication can help them achieve their language and professional goals. This course will focus especially on making those important connections to take the career or business to the next level.	
3	**Human Values**	I	I
		The Courses Human Values envisages to instill the ethical values and to provide the knowledge about Ethics as a subject matter. The Course Human Value Education is aimed at providing the students with knowledge on Value System and its importance in Human existence. The objective of the course is listed as: Values are socially accepted norms to evaluate objects, persons, and situations that form part and parcel of sociality. A value system is a set of consistent values and measures. Knowledge of the values are inculcated through education. It contributes in forming true human being, who are able to face life and make it meaningful.	
4	**Human Values Activities**	I	II
		Human Values involves various classroom activities through which teachers can take a measure of and improve the student's inherent qualities, including responsibility, confidence, co-operation, respect and empathy. Each activity featured as part of this innovation is focused on	

		specific human values. The positive change in students and learning environment through all these activities can be ensured by carrying these out on a regular basis throughout the course. Activities Includes Scouts & Guides, Planning, Implementation, Surveying and many more.	
5	**Technical Communication**	**II**	**III/IV**
		In this course students will practice designing and giving strong, persuasive presentations. Students will learn how to communicate across cultures, genders, and generations, how to create a personal brand and leadership presence and how to hold effective meetings with global teams. Students will learn how to handle difficult conversations, and how to handle crisis communication; students will also learn writing skills immediately applicable in their daily activities.	
6	**Social Outreach, Discipline & Extra Curricular Activities**	**II**	**III/IV**
		The primary goals of extracurricular activities focus on the individual student level, the institutional level, and the broader community level. These activities exist to complement the university's academic curriculum and to augment the student's educational experience. Extracurricular activities provide a setting	

		to become involved and to interact with other students, thus leading to increased learning and enhanced development.	
7	**Technical Communication**	**II**	**III**
		In this course students will practice designing and giving strong, persuasive presentations. Students will learn how to communicate across cultures, genders, and generations, how to create a personal brand and leadership presence and how to hold effective meetings with global teams. Students will learn how to handle difficult conversations, and how to handle crisis communication; students will also learn writing skills immediately applicable in their daily activities.	

List & Description of courses which address the Professional Ethics, Gender, Human Values, Environmental and Sustainability into the Curriculum

DEPARTMENT OF MECHANICAL ENGINEERING

S.NO	NAME OF THE COURSE	YEAR	SEM
1	**Discipline & Extra Curricular activity**	IV	VII,VIII
		The primary goals of extracurricular activities focus on the individual student level, the institutional level, and the broader community level. These activities exist to complement the university's academic curriculum and to augment the student's educational experience. Extracurricular activities provide a setting to become involved and to interact with other students, thus leading to increased learning and enhanced development.	
2	**Human Engineering and Safety**	IV	VII
	Description	A human engineering effort is conducted to develop or improve human interface of the system Achieve required effectiveness of human performance during system operation, maintenance and support and make economical demands upon personnel resources skills, training and costs.	

3	Communication skills	I	I/II
		This course helps students improve their professional communication in English for successful business interactions. Each chapter focuses on a particular area of communication in English: writing emails, speaking at meetings and interviews, giving presentations, and networking online. Whether a person wants to communicate to potential employers, employees, partners or clients, better English communication can help them achieve their language and professional goals. This course will focus especially on making those important connections to take the career or business to the next level.	
4	Human Values	I	I/II
		The Courses Human Values envisages to instill the ethical values and to provide the knowledge about Ethics as a subject matter. The Course Human Value Education is aimed at providing the students with knowledge on Value System and its importance in Human existence. The objective of the course is listed as: Values are socially accepted norms to evaluate objects, persons, and situations that form part and parcel of sociality. A value system is a set of consistent values and measures. Knowledge of the values are inculcated through education. It contributes in forming true human being, who are able to face life and make it meaningful.	

5	**Human Values Activities**	**I**	**II**
		Human Values involves various classroom activities through which teachers can take a measure of and improve the student's inherent qualities, including responsibility, confidence, co-operation, respect and empathy. Each activity featured as part of this innovation is focused on specific human values. The positive change in students and learning environment through all these activities can be ensured by carrying these out on a regular basis throughout the course. Activities Includes Scouts & Guides, Planning, Implementation, Surveying and many more.		
6	**Technical Communication**	**II**	**III/IV**
		In this course students will practice designing and giving strong, persuasive presentations. Students will learn how to communicate across cultures, genders, and generations, how to create a personal brand and leadership presence and how to hold effective meetings with global teams. Students will learn how to handle difficult conversations, and how to handle crisis communication; students will also learn writing skills immediately applicable in their daily activities.		
7	**Social Outreach, Discipline & Extra**	**II**	**III/IV**

	Curricular Activities		
		The primary goals of extracurricular activities focus on the individual student level, the institutional level, and the broader community level. These activities exist to complement the university's academic curriculum and to augment the student's educational experience. Extracurricular activities provide a setting to become involved and to interact with other students, thus leading to increased learning and enhanced development.	
8	Technical Communication	II	III
		In this course students will practice designing and giving strong, persuasive presentations. Students will learn how to communicate across cultures, genders, and generations, how to create a personal brand and leadership presence and how to hold effective meetings with global teams. Students will learn how to handle difficult conversations, and how to handle crisis communication; students will also learn writing skills immediately applicable in their daily activities.	