Department of Civil Engineering

	B. Tech Scheme 2022-23			
SEMESTER	1			
Category	Course Code	Course Title		
BSC	1FY2-01	Engineering Mathematics-I		
BSC	1FY2-03	Engineering Chemistry		
HSMC	1FY1-04	Communication Skills		
ESC	1FY3-06	Programming for Problem Solving		
ESC	1FY3-09	Basic Civil Engineering		
BSC	1FY2-21	Engineering Chemistry Lab		
HSMC	1FY1-22	Human Values Activities		
ESC	1FY3-24	Computer Programming Lab		
ESC	1FY3-27	Basic Civil Engineering Lab		
ESC	1FY3-28	Computer Aided Engineering Graphics		
SODECA	1FY8-00	Social Outreach, Discipline & Extra Curricular Activities		
SEMESTER		2		
Category	Course Code	Course Title		
BSC	2FY2-01	Engineering Mathematics-II		
BSC	2FY2-02	Engineering Physics		
HSMC	2FY1-05	Human Values		
ESC	2FY3-07	Basic Mechanical Engineering		
ESC	2FY3-08	Basic Electrical Engineering		
BSC	2FY2-20	Engineering Physics Lab		
HSMC	2FY1-23	Human Values Activities		
ESC	2FY3-25	Manufacturing Practices Workshop		
ESC	2FY3-26	Basic Electrical Engineering Lab		
ESC	2FY3-29	Computer Aided Machine Drawing		
SODECA	2FY8-00	Social Outreach, Discipline & Extra Curricular Activities		
SEMESTER		3		
Category	Course Code	Course Title		
BSC	3CE2-01	ADVANCE ENGINEERING MATHEMATICS-I		
HSMC	3CE1-02	TECHNICAL COMMUNICATION		
ESC	3CE3-04	Engineering Mechanics		
PCC	3CE4-05	SURVEYING		
PCC	3CE4-06	FLUID MECHANICS		

SEMESTER		Δ	
SODECA	3CE8-00 Social Outreach, Discipline & Extra Curricular Activities		
PSIT	3CE7-30 Industrial Training		
PCC	3CE4-25	5 Geology Lab	
PCC	3CE4-24	Civil Engineering Maretials Lab	
PCC	3CE4-23	Computer Aided Civil Engineering Drawing	
PCC	3CE4-22	Fluid Mechanics Lab	
PCC	3CE4-21	Surveying Lab	
PCC	3CE4-08	ENGINEERING GEOLOGY	
PCC	3CE4-07	BUILDING MATERIALS AND CONSTRUCTION	

SEMESTER	4		
Category	Course Code	Course Title	
BSC	4CE2-01	ADVANCE ENGINEERING MATHEMATICS-II	
HSMC	4CE1-03	MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTING	
ESC	4CE3-04	BASIC ELECTRONICS FOR CIVIL ENGINEERING APPLICATIONS	
PCC	4CE4-05	STRENGTH OF MATERIALS	
PCC	4CE4-06	HYDRAULICS ENGINEERING	
PCC	4CE4-07	BUILDING PLANNING	
PCC	4CE4-08	CONCRETE TECHNOLOGY	
PCC	4CE4-21	Material Testing Lab	
PCC	4CE4-22	Hydraulics Engineering Lab	
PCC	4CE4-23	Building Drawing	
PCC	4CE4-24	Advanced Surveying Lab	
PCC	4CE4-25	Concrete Lab	
SODECA	4CE8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		5	

SEMESTER		5		
Category	Course Course Title			
ESC	5CE3-01	CONSTRUCTION TECHNOLOGY AND EQUIPMENT		
PCC	5CE4-02	STRUCTURE ANALYSIS-I		
PCC	5CE4-03	DESIGN OF CONCRETE STRUCTURES		
PCC	5CE4-04	GEOTECHNICAL ENGINEERING		
PCC	5CE4-05	WATER RESOURCE ENGINEERING		
PCC	5CE5-13	Town Planning		
PCC	5CE5-14	Repair and Rehabilitation of Structures		
PCC	5CE4-21	Concrete Structures Design		
PCC	5CE4-22	Geotechnical Engineering Lab		
PCC	5CE4-23	Water Resource Engineering Design		
PSIT	5CE7-30	Industrial Training		

SODECA	5CE8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		6	
Category	Course Code	Course Title	
ESC	6CE3-01	WIND AND SEISMIC ANALYSIS	
PCC	6CE4-02	STRUCTURAL ANALYSIS-II	
PCC	6CE4-03	ENVIRONMENTAL ENGINEERING	
PCC	6CE4-04	DESIGN OF STEEL STRUCTURES	
PCC	6CE4-05	Estimating & Costing	
PCC	6CE5-12	SOLID AND HAZARDOUS WASTE MANAGEMENT	
PCC	6CE5-16	Geographic Information System & Remote Sensing	
PCC	6CE4-21	Environmental Engineering Design and Lab	
PCC	6CE4-22	Steel Structure Design	
PCC	6CE4-23	Quantity Surveying and Valuation	
PCC	6CE4-24	Water and Earth Retaining Structures Design	
PCC	6CE4-25	Foundation Design	
SODECA	6CE8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		7	
Category	Course Code	Course Title	
PEC	7CE4-01	Transportation Engineering	
OE	7AG6- 60.2	Environmental Engineering and Disaster Management	
PCC	7CE4-21	Road Material Testing Lab	
PCC	7CE4-22	Professional Practices & Field Engineering Lab	
PCC	7CE4-23	Soft Skills Lab	
PCC	7CE4-24	Environmental Monitoring and Design Lab	
PSIT	7CE7-30	Practical Training	
PSIT	7CE7-40	Seminar	
SODECA	7CE8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		8	
Category	Course Code	Course Title	
PEC	8CE4-01	Project Planning and Construction Management	
OE	8TT6-60.2	Disaster Management	
PCC	8CE4-21	Project Planning & Construction Management Lab	
PCC	8CE4-22	Pavement Design	
PSIT	8CE7-50		
SODECA	8CE8-00		
		Project Social Outreach, Discipline & Extra Curricular Activities	

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

S.NO	NAME OF	YEAR	SEM
	THE COURSE		
1	Project	IV	VIII
	Planning &		
	Construction		
	Management		
	<u>Description</u>	This course guides the planning of a project in available resources. W different types of visua one can get to know ho a project to complete in of time by optimizing to Methods such as critica PERT are used to analy the project flow in a be techniques are induced particular time.	a accordance with the ith the help of al graphs and figures ow someone can plan a specified interval the resources. al path method and yze the structure of etter way and others
2	Professional	IV	VII
	Practices &		
	Field		
	Engineering		
	Lab		
		This lab course helps s detailed estimates of an work. By introducing s as center line method, method one can easily dimension of a buildin students in understandi	ny construction several methods such long wall - short wall calculated the g. This subjects helps

CIVIL ENGINEERING DEPARTMENT

		concepts of rate analys	1
		building, salvage value	and more.
3	Discipline & Extra	IV	VIII
	Curricular activity		
	activity	The primary goals of e	xtracurricular
		activities focus on the	
		level, the institutional l	evel, and the broader
		community level. Thes	
		complement the univer	•
		curriculum and to augr	
		educational experience	
		activities provide a sett involved and to interac	e
		thus leading to increase	,
		enhanced development	•
4	Communication	Ι	Ι
	Skills		
		This course helps stude	-
		professional communic	Ũ
		successful business int	
		chapter focuses on a pa	
		communication in Eng speaking at meetings a	C
		1 0 0	00
		presentations, and netw	orking online.
		presentations, and netw Whether a person want	J
		Whether a person want potential employers, er	s to communicate to
		Whether a person want	s to communicate to nployees, partners or
		Whether a person want potential employers, er clients, better English o help them achieve their	ts to communicate to nployees, partners or communication can r language and
		Whether a person want potential employers, er clients, better English o help them achieve their professional goals. Thi	as to communicate to nployees, partners or communication can r language and s course will focus
		Whether a person want potential employers, er clients, better English of help them achieve their professional goals. Thi especially on making the	is to communicate to nployees, partners or communication can r language and s course will focus hose important
		Whether a person want potential employers, er clients, better English o help them achieve their professional goals. Thi	is to communicate to nployees, partners or communication can r language and s course will focus hose important
		Whether a person want potential employers, er clients, better English of help them achieve their professional goals. Thi especially on making the connections to take the	is to communicate to nployees, partners or communication can r language and s course will focus hose important

5	Human Values	Ι	Ι
		The Courses Human V	alues envisages to
		instill the ethical value	s and to provide the
		knowledge about Ethic	es as a subject matter.
		The Course Human Va	lue Education is
		aimed at providing the	students with
		knowledge on Value S	ystem and its
		importance in Human	existence. The
		objective of the course	is listed as: Values
		are socially accepted n	orms to evaluate
		objects, persons, and si	ituations that form
		part and parcel of socia	ality. A value system
		is a set of consistent va	lues and measures.
		Knowledge of the valu	es are inculcated
		through education. It c	ontributes in forming
		true human being, who	are able to face life
		and make it meaningfu	1.
6	Human Values	Ι	II
	Activities		
		Human Values involve	es various classroom
		activities through whic	h teachers can take a
		measure of and improv	
		inherent qualities, including responsibility,	
		confidence, co-operation	on, respect and
		empathy.	
		Each activity featured	-
		innovation is focused of	1
		values. The positive ch	•
		learning environment t	U
		activities can be ensure	••••
		out on a regular basis t	U
		course. Activities Inclu	
		Guides, Planning, Impl	
		Surveying and many m	nore.

7	Technical	II	III/IV
	Communication		
		In this course students	will practice
		designing and giving s	trong, persuasive
		presentations. Students	s will learn how to
		communicate across cu	ultures, genders, and
		generations, how to cre	eate a personal brand
		and leadership presenc	e and how to hold
		effective meetings with	n global teams.
		Students will learn how	v to handle difficult
		conversations, and how	v to handle crisis
		communication; studer	nts will also learn
		writing skills immedia	tely applicable in
		their daily activities.	
8	Social	II	III/IV
	Outreach,		
	Discipline &		
	Extra		
	Curricular		
	Activities		
		The primary goals of e	
		activities focus on the	
		level, the institutional	
		community level. Thes	
		complement the univer	•
		curriculum and to augr	
		educational experience	
		activities provide a set	e
		involved and to interac	,
		thus leading to increase	U U
		enhanced development	
9	Technical	III	IV
	Communication	In this correction to the t	
		In this course students	-
		designing and giving s	• 1
		presentations. Students	
		communicate across cu	mures, genders, and

		generations, how to created and leadership presence effective meetings with Students will learn how conversations, and how communication; student writing skills immediated their daily activities.	e and how to hold h global teams. w to handle difficult v to handle crisis nts will also learn
10	Disaster Management	IV	VIII
	Management	Disastan Managamant	marridae detailed
		Disaster Management	-
		knowledge to students	
		preparedness, reducing	
		rehabilitation. This cou with a regional, nation	-
		perspective on disaster	
11	Solid and	III	VI
11	Hazardous		
	Waste		
	Management		
		This course provides s	tudents with an
		overview of the munic	
		management situation	1
		income countries. It co	
		the waste management	system, such as its
		technical, environment	tal, social, financial
		and institutional aspect	ts. Besides
		understanding the chal	0
		be introduced to appro	
		applied solutions throu	igh selected case
		studies.	
12	Environmental	III	VI
	Engineering		
		Environmental enginee	ering is a subfield of
		engineering that is con	cerned with the

13	Environmental	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.IIIVI	
	Engineering Lab		
		The Environmental En practical provides good different experimental Environmental Engine performs various test of sewage samples to che dissolved solids, BOD suspended particles etc	d insight into methods relevant to ering. In this lab we on drinker water and ck pH value, total and COD, total
14	Environmental monitoring & Design Lab	IV	VII
		Environmental monitor instruments to carry ou baseline and compliant walk of sectors like per cement, highways, hou infrastructure for EIA Sampling and Testing Air, Water, Soil, Noise Stationary Sources, Sta and Hazardous Wastes Hydrocarbons, Fugitiv Indoor gas quality, Me	at environmental ce monitoring in all trochemical, mining, using and studies. Includes: Ambient of Ambient and ack Emissions, Solid , VOCs and e Gas emissions,

Department of Computer Science Engineering

	B. Tech Scheme 2022-23			
SEMESTER	1			
Category	Course Course Title			
BSC	1FY2-01	Engineering Mathematics-I		
BSC	1FY2-03	Engineering Chemistry		
HSMC	1FY1-04	Communication Skills		
ESC	1FY3-06	Programming for Problem Solving		
ESC	1FY3-09	Basic Civil Engineering		
BSC	1FY2-21	Engineering Chemistry Lab		
HSMC	1FY1-22	Human Values Activities		
ESC	1FY3-24	Computer Programming Lab		
ESC	1FY3-27	Basic Civil Engineering Lab		
ESC	1FY3-28	Computer Aided Engineering Graphics		
SODECA	1FY8-00	Social Outreach, Discipline & Extra Curricular Activities		
SEMESTER		2		
Category	Course Code	Course Title		
BSC	2FY2-01	Engineering Mathematics-II		
BSC	2FY2-02	Engineering Physics		
HSMC	2FY1-05	Human Values		
ESC	2FY3-07	Basic Mechanical Engineering		
ESC	2FY3-08	Basic Electrical Engineering		
BSC	2FY2-20	Engineering Physics Lab		
HSMC	2FY1-23	Human Values Activities		
ESC	2FY3-25	Manufacturing Practices Workshop		
ESC	2FY3-26	Basic Electrical Engineering Lab		
ESC	2FY3-29	Computer Aided Machine Drawing		
SODECA	2FY8-00	Social Outreach, Discipline & Extra Curricular Activities		
SEMESTER		3		
Category	Course Code	Course Title		
BSC	3CS2-01	Advanced Engineering Mathematics		
HSMC	3CS1-02	Technical Communication		
ESC	3CS3-04	Digital Electronics		
PCC	3CS4-05	Data Structures and Algorithms		
	1	0		

PCC	3CS4-06	Object Oriented Programming	
PCC	3CS4-07	Software Engineering	
PCC	3CS4-21	Data Structures and Algorithms Lab	
PCC	3CS4-22	Object Oriented Programming Lab	
PCC	3CS4-23	Software Engineering Lab	
PCC	3CS4-24	Digital Electronics Lab	
PSIT	3CS7-30	Industrial Training	
		Social Outreach, Discipline & Extra Curricular	
SODECA	3CS8-00	Activities	
SEMESTER		4	
Category	Course Code	Course Title	
BSC	4CS2-01	Discrete Mathematics Structures	
нѕмс	4CS1-03	Managerial Economics and Financial Accounting	
ESC	4CS3-04	Microprocessor & Interface	
PCC	4CS4-05	Database Management System	
PCC	4CS4-06	Theory of Computation	
PCC	4CS4-07	Data Communication and Computer Networks	
PCC	4CS4-21	Microprocessor & Interfaces Lab	
PCC	4CS4-22	Database Management System Lab	
PCC	4CS4-23	Network Programming Lab	
PCC	4CS4-24	Linux Shell Programming Lab	
PCC	4CS4-25	Java Lab	
SODECA	4CS8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		5	
Category	Course Code	Course Title	
ESC	5CS3-01	Information Theory & Coding	
PCC	5CS4-02	Compiler Design	
PCC	5CS4-03	Operating System	
PCC	5CS4-04	Computer Graphics & Multimedia	
PCC	5CS4-05	Analysis of Algorithms	
PCC	5CS5-12	Human-Computer Interaction	
PCC	5CS4-21	Computer Graphics & Multimedia Lab	
ESC	5CS4-22	Compiler Design Lab	
PCC	5CS4-23	Analysis of Algorithms Lab	
PCC	5CS4-24	Advance Java Lab	
PSIT	5CS7-30	Industrial Training	
SODECA	5CS8-00	Social Outreach, Discipline & Extra Curricular Activities	

SEMESTER		6	
Category	Course Code	Course Title	
ESC	6CS3-01	Digital Image Processing	
PCC	6CS4-02	Machine Learning	
PCC	6CS4-03	Information Security System	
PCC	6CS4-04	Computer Architecture and Organization	
PCC	6CS4-05	Artificial Intelligence	
PCC	6CS4-06	Cloud Computing	
PCC	6CS5-11	Distributed System	
ESC	6CS4-21	Digital Image Processing Lab	
PCC	6CS4-22	Machine Learning Lab	
PCC	6CS4-23	Python Lab	
PCC	6CS4-24	Mobile Application Development Lab	
SODECA	6CS8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		7	
Category	Course Code	Course Title	
PEC	7CS4-01	Internet of Things	
OE	7CE6-60.2	Disaster Management	
OE	7AG6-60.2	Environment Engg and Disaster Management	
PCC	7CS4-21	Internet of Things Lab	
PCC	7CS4-22	Cyber Security Lab	
PSIT	7CS7-30	Industrial Training	
PSIT	7CS7-40	Seminar	
SODECA	7CS8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		8	
Category	Course Code	Course Title	
PEC	8CS4-01	Big Data Analytics	
OE	8AN6-60.2	Factor of Human Interactions	
PCC	8CS4-21	Big Data Analytics Lab	
PCC	8CS4-22	Software Testing and Validation Lab	
PSIT	8CS7-50	Project	
SODECA	8CS8-00	Social Outreach, Discipline & Extra Curricular Activities	

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	YEAR	SEM
	COURSE		
1	Disaster	IV	VII
	Management		
		Disaster Managemer knowledge to stu preparedness, reduct rehabilitation. This learners with a reg	dents on disaster ing the effect and course provides
	Description	international perspe	
		management.	
2	Communication	Ι	Ι
	skills		
	Description	This course helps stu professional commu for successful busine chapter focuses on communication in emails, speaking interviews, giving networking online. wants to commun employers, employee better English commun them achieve the professional goals. The specially on making connections to take the to the next level.	nication in English ss interactions. Each a particular area of English: writing at meetings and presentations, and Whether a person nicate to potential s, partners or clients, nunication can help eir language and his course will focus ng those important

3	Technical	II	III/IV
	Communication		
	Description	In this course studes designing and giving presentations. Studen communicate across and generations, how brand and leadership hold effective meeting Students will learn ho conversations, and h communication; stud writing skills immed their daily activities.	g strong, persuasive its will learn how to cultures, genders, to create a personal presence and how to gs with global teams. ow to handle difficult how to handle crisis lents will also learn
4	Social Outreach,	II	III/IV
	Discipline &		
	Extra Curricular		
	Activities		
	Description	The primary goals activities focus on the level, the institution broader community levels exist to complement academic curriculum student's education Extracurricular activit to become involved other students, thus learning and enhanced	he individual student nal level, and the evel. These activities int the university's and to augment the onal experience. ties provide a setting and to interact with leading to increased
6	Environmental	IV	VII
	Engineering and Disaster Management		
		Environmental engin of engineering that is protection and pr environment and env	s concerned with the eservation of the

	<u>Description</u>	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	IV	VIII
	Interactions		
	<u>Description</u>	Factor of Human provide detail know evaluating the impacts of a pro- development, taking related socio-econo human-health impacts adverse.	ledge of process of likely environmental posed project or into account inter- mic, cultural and

Department of Electronics & Communication Engineering

B. Tech Scheme 2022-23			
SEMESTER		1	
Category	Course Code	Course Title	
BSC	1FY2-01	Engineering Mathematics-I	
BSC	1FY2-03	Engineering Chemistry	
HSMC	1FY1-04	Communication Skills	
ESC	1FY3-06	Programming for Problem Solving	
ESC	1FY3-09	Basic Civil Engineering	
BSC	1FY2-21	Engineering Chemistry Lab	
HSMC	1FY1-22	Human Values Activities	
ESC	1FY3-24	Computer Programming Lab	
ESC	1FY3-27	Basic Civil Engineering Lab	
ESC	1FY3-28	Computer Aided Engineering Graphics	
SODECA	1FY8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		2	
Category	Course Code	Course Title	
BSC	2FY2-01	Engineering Mathematics-II	
BSC	2FY2-02	Engineering Physics	
HSMC	2FY1-05	Human Values	
ESC	2FY3-07	Basic Mechanical Engineering	
ESC	2FY3-08	Basic Electrical Engineering	
BSC	2FY2-20	Engineering Physics Lab	
HSMC	2FY1-23	Human Values Activities	
ESC	2FY3-25	Manufacturing Practices Workshop	
ESC	2FY3-26	Basic Electrical Engineering Lab	
ESC ESC	2FY3-26 2FY3-29		
		Basic Electrical Engineering Lab	
ESC	2FY3-29	Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular	
ESC	2FY3-29	Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular	
ESC SODECA	2FY3-29	Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular Activities	
ESC SODECA SEMESTER	2FY3-29 2FY8-00 Course	Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular Activities 3	
ESC SODECA SEMESTER Category	2FY3-29 2FY8-00 Course Code	Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular Activities 3 Course Title	
ESC SODECA SEMESTER Category BSC	2FY3-29 2FY8-00 Course Code 3EC2-01	Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular Activities 3 Course Title Advanced Engineering Mathematics-I Technical Communication	
ESC SODECA SEMESTER Category BSC HSMC	2FY3-29 2FY8-00 Course Code 3EC2-01 3EC1-02	Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular Activities 3 Course Title Advanced Engineering Mathematics-I Technical Communication Digital System Design	
ESC SODECA SEMESTER Category BSC HSMC PCC	2FY3-29 2FY8-00 Course Code 3EC2-01 3EC1-02 3EC4-04	Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular Activities 3 Course Title Advanced Engineering Mathematics-I Technical Communication	

РСС	3EC4-07	Electronics Devices	
PCC	3EC4-21	Electronics Devices Lab	
PCC	3EC4-22	Digital System Design Lab	
PCC	3EC4-23	Signal Processing Lab	
ESC	3EC3-24	Computer Programming Lab-I	
PSIT	3EC7-30	Industrial Training	
SODECA	3EC8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		4	
Category	Course Code	Course Title	
BSC	4EC2-01	Advanced Engineering Mathematics-II	
HSMC	4EC1-03	Managerial Economics and Financial Accounting	
PCC	4EC4-04	Analog Circuits	
РСС	4EC4-05	Microcontrollers	
ESC	4EC3-06	Electronics Measurement & Instrumentation	
PCC	4EC4-07	Analog and Digital Communication	
PCC	4EC4-21	Analog and Digital Communication Lab	
PCC	4EC4-22	Analog Circuits Lab	
PCC	4EC4-23	Microcontrollers Lab	
PCC	4EC4-24	Electronics Measurement & Instrumentation Lab	
SODECA	4EC8-00	Social Outreach, Discipline & Extra Curricular Activities	
		<u> </u>	
SEMESTER	Courses	5	
Category	Course Code	Course Title	
ESC	5EC 3-01	Computer Architecture	
РСС	5EC 4-02	Electromagnetics Waves	
PCC	5EC 4-03	Control system	
PCC	5EC 4-04	Digital Signal Processing	
PCC	5EC 4-05	Microwave Theory & Techniques	
PCC	5EC 5-12	Embedded Systems	
PCC	5EC 4-21	RF Simulation Lab	
ESC	5EC 4-22	Digital Signal Processing Lab	
РСС	5EC 4-23	Microwave Lab	
PSIT	5EC 7-30	Industrial Training	
SODECA	5EC8-00	Social Outreach, Discipline & Extra Curricular Activities	
	5EC8-00	· · · · · · · · · · · · · · · · · · ·	
	5EC8-00	· · · · · · · · · · · · · · · · · · ·	

	Code		
ESC	6EC 3-01	Power Electronics	
PCC	6EC 4-02	Computer Network	
PCC	6EC 4-03	Fiber Optics Communications	
PCC	6EC 4-04	Antennas and Propagation	
PCC	6EC 4-05	Information theory and coding	
PCC	6EC 5-11	Introduction to MEMS	
PCC	6EC 4-21	Computer Network Lab	
ESC	6EC 4-22	Antenna and wave propagation Lab	
PCC	6EC 4-23	Electronics Design Lab	
PSIT	6EC 4-24	Power Electronics Lab	
SODECA	6EC8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		7	
Category	Course Code	Course Title	
PEC	7EC5-11	VLSI Design	
OE	7CE6-60.2	Disaster Management	
OE	7AG6-60.2	Environment Engg and Disaster Management	
PCC	7EC4-21	VLSI Design Lab	
РСС	7EC4-22	Advance communication lab (MATLAB Simulation)	
PCC	7EC4-23	Optical Communication Lab	
PSIT	7EC7-30	Industrial Training	
PSIT	7EC7-40	Seminar	
SODECA	7EC8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		8	
Category	Course Code	Course Title	
PEC	8EC5-11	Artificial Intelligence And Expert Systems	
OE	8AN6- 60.2	Factor of Human Interactions	
PCC	8EC4-21	Internet of Things (IOT) Lab	
РСС	8EC4-22	Skill Development Lab	
PSIT	8EC7-50	Project	
SODECA	8EC8-00	Social Outreach, Discipline & Extra Curricular Activities	

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	YEAR	SEM
5.100	THE COURSE		
1	Discipline &	IV	VII/VIII
_	Extra		
	Curricular		
	activity		
		The primary goals of	extracurricular
		activities focus on the	
			l level, and the broader
		community level. The	
		complement the univ	
		curriculum and to aug	•
		educational experience. Extracurricular	
		activities provide a setting to become	
		involved and to intera	act with other students,
		thus leading to increa	sed learning and
		enhanced development	
2	Communication	Ι	Ι
	skills		
		This course helps stu	dents improve their
		professional commun	ication in English for
		successful business in	nteractions. Each
		chapter focuses on a particular area of	
			glish: writing emails,
			and interviews, giving
		presentations, and networking online.	
		-	nts to communicate to
			employees, partners or
		clients, better English	
		help them achieve the	eir language and

		professional goals. T	his course will focus	
		especially on making those important		
		connections to take the career or business to		
		the next level.		
3	Human Values	Ι	Ι	
		The Courses Human	•	
		instill the ethical values and to provide the		
		U U	ics as a subject matter.	
		The Course Human V		
		aimed at providing th		
		knowledge on Value	•	
		importance in Humar		
		objective of the cours		
		are socially accepted		
		objects, persons, and		
		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	l	II	
	Activities	TT T 7 1 1	• 1	
			ves various classroom	
		Ŭ	ich 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	-	
		·	change in students and	
		learning environment	e	
			red by carrying these	
		out on a regular basis	0	
		course. Activities Inc	indes scouts &	

		Guides, Planning, Im	plementation,
		Surveying and many	more.
5	Technical Communication	II	III/IV
	Communication	In this course student	s will practice
		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	II	III/IV
	Outreach, Discipline & Extra Curricular Activities		
7	Technical	community level. The complement the unive curriculum and to aug educational experience activities provide a se	e individual student I level, and the broader ese activities exist to ersity's academic gment the student's ce. Extracurricular etting to become act with other students, used learning and
	Communication		
	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.

Department of Electrical Engineering

B. Tech Scheme 2022-23			
SEMESTER		1	
Category	Course Code	Course Title	
BSC	1FY2-01	Engineering Mathematics-I	
BSC	1FY2-03	Engineering Chemistry	
HSMC	1FY1-04	Communication Skills	
ESC	1FY3-06	Programming for Problem Solving	
ESC	1FY3-09	Basic Civil Engineering	
BSC	1FY2-21	Engineering Chemistry Lab	
HSMC	1FY1-22	Human Values Activities	
ESC	1FY3-24	Computer Programming Lab	
ESC	1FY3-27	Basic Civil Engineering Lab	
ESC	1FY3-28	Computer Aided Engineering Graphics	
SODECA	1FY8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		2	
Category	Course Code	Course Title	
BSC	2FY2-01	Engineering Mathematics-II	
BSC	2FY2-02	Engineering Physics	
HSMC	2FY1-05	Human Values	
ESC	2FY3-07	Basic Mechanical Engineering	
ESC	2FY3-08	Basic Electrical Engineering	
BSC	2FY2-20	Engineering Physics Lab	
HSMC	2FY1-23	Human Values Activities	
ESC	2FY3-25	Manufacturing Practices Workshop	
ESC	2FY3-26	Basic Electrical Engineering Lab	
ESC	2FY3-29	Computer Aided Machine Drawing	
SODECA	2FY8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		3	
Category	Course Code	Course Title	
BSC	3EE2-01	Advance Mathematics	
HSMC	3EE1-02	Technical Communication	
PCC	3EE3-04	Power generation Process	
PCC	3EE4-05	Electrical Circuit Analysis	
ESC	3EE4-06	Analog Electronics	

PCC	3EE4-07	Electrical Machine - I	
PCC	3EE4-08	Electromagnetic Field	
PCC	3EE4-21	Analog Electronics Lab	
PCC	3EE4-22	Electrical Machine-I Lab	
PCC	3EE4-23	Electrical circuit design Lab	
PSIT	3EE7-30	Training Seminar	
		Social Outreach, Discipline & Extra Curricular	
SODECA	3EE8-00	Activities	
SEMESTER		4	
Category	Course	Course Title	
category	Code	course ritte	
BSC	4EE2-01	Biology	
HSMC	4EE1-03	Managerial Economics and Financial Accounting	
ESC	4EE3-04	Electronic Measurement & Instrumentation	
PCC	4EE4-05	Electrical Machine - II	
PCC	4EE4-06	Power Electronics	
PCC	4EE4-07	Signals & Systems	
PCC	4EE4-08	Digital Electronics	
РСС	4EE4-21	Electrical Machine - IILab	
РСС	4EE4-22	Power Electronics Lab	
PCC	4EE4-23	Digital Electronics Lab	
РСС	4EE4-24	Measurement Lab	
SODECA	4EE8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		5	
Category	Course Code	Course Title	
ECC			
ESC	5EE3-01	Electrical Materials	
PCC		Electrical Materials Power System - I	
	5EE3-01		
PCC	5EE3-01 5EE4-02	Power System - I	
PCC PCC	5EE3-01 5EE4-02 5EE4-03	Power System - I Control System	
PCC PCC PCC	5EE3-01 5EE4-02 5EE4-03 5EE4-04	Power System - I Control System Microprocessor	
PCC PCC PCC PCC	5EE3-01 5EE4-02 5EE4-03 5EE4-04 5EE4-05	Power System - I Control System Microprocessor Electrical Machine Design	
PCC PCC PCC PCC PCC	5EE3-01 5EE4-02 5EE4-03 5EE4-04 5EE4-05 5EE5-12	Power System - I Control System Microprocessor Electrical Machine Design Electromagnetic Wave.	
PCC PCC PCC PCC PCC PCC	5EE3-01 5EE4-02 5EE4-03 5EE4-04 5EE4-05 5EE5-12 5EE5-12	Power System - I Control System Microprocessor Electrical Machine Design Electromagnetic Wave. Power System - I Lab	
PCC PCC PCC PCC PCC PCC ESC	5EE3-01 5EE4-02 5EE4-03 5EE4-04 5EE4-05 5EE5-12 5EE4-21 5EE4-22	Power System - I Control System Microprocessor Electrical Machine Design Electromagnetic Wave. Power System - I Lab Control System Lab	
PCC PCC PCC PCC PCC ESC PCC	5EE3-01 5EE4-02 5EE4-03 5EE4-04 5EE4-05 5EE5-12 5EE4-21 5EE4-22 5EE4-23	Power System - I Control System Microprocessor Electrical Machine Design Electromagnetic Wave. Power System - I Lab Control System Lab Microprocessor Lab System Programming Lab Industrial Training	
PCC PCC PCC PCC PCC ESC PCC PCC	5EE3-01 5EE4-02 5EE4-03 5EE4-04 5EE4-05 5EE5-12 5EE4-21 5EE4-22 5EE4-23 5EE4-24	Power System - I Control System Microprocessor Electrical Machine Design Electromagnetic Wave. Power System - I Lab Control System Lab Microprocessor Lab System Programming Lab	
PCC PCC PCC PCC PCC ESC PCC PCC PCC PSIT	5EE3-01 5EE4-02 5EE4-03 5EE4-04 5EE4-05 5EE5-12 5EE4-21 5EE4-22 5EE4-23 5EE4-24 5EE7-30	Power System - I Control System Microprocessor Electrical Machine Design Electromagnetic Wave. Power System - I Lab Control System Lab Microprocessor Lab System Programming Lab Industrial Training Social Outreach, Discipline & Extra Curricular	
PCC PCC PCC PCC PCC ESC PCC PCC PCC PSIT	5EE3-01 5EE4-02 5EE4-03 5EE4-04 5EE4-05 5EE5-12 5EE4-21 5EE4-22 5EE4-23 5EE4-24 5EE7-30	Power System - I Control System Microprocessor Electrical Machine Design Electromagnetic Wave. Power System - I Lab Control System Lab Microprocessor Lab System Programming Lab Industrial Training Social Outreach, Discipline & Extra Curricular	

ESC	6EE3-01	Computer Architecture	
РСС	6EE4-02	Power System - II	
PCC	6EE4-03	Power System Protection	
РСС	6EE4-04	Electrical Energy Conversion and Auditing	
PCC	6EE4-05	Electric Drives	
PCC	6EE5-11	Power System Planning.	
PCC	6EE4-21	Power System - II Lab	
ESC	6EE4-22	Electric Drives Lab	
РСС	6EE4-23	Power System Protection Lab	
PCC	6EE4-24	Modelling and simulation lab	
SODECA	6EE8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		7	
Category	Course Code	Course Title	
OE	7CE6-		
	60.2	Disaster Management	
OE	7AG6-	Environment Engg and Disaster Management	
	60.2		
PEC	60.2 7EE5-11	Wind and Solar Energy Systems	
PEC	7EE5-11	Wind and Solar Energy Systems	
PEC PCC	7EE5-11 7EE4-21	Wind and Solar Energy Systems Embedded Systems Lab	
PEC PCC PCC	7EE5-11 7EE4-21 7EE4-22	Wind and Solar Energy Systems Embedded Systems Lab Advance control system lab	
PEC PCC PCC PSIT	7EE5-11 7EE4-21 7EE4-22 7EE7-30	Wind and Solar Energy SystemsEmbedded Systems LabAdvance control system labIndustrial Training	
PEC PCC PCC PSIT PSIT	7EE5-11 7EE4-21 7EE4-22 7EE7-30 7EE7-40	Wind and Solar Energy SystemsEmbedded Systems LabAdvance control system labIndustrial TrainingSeminarSocial Outreach, Discipline & Extra Curricular	
PEC PCC PCC PSIT PSIT	7EE5-11 7EE4-21 7EE4-22 7EE7-30 7EE7-40	Wind and Solar Energy SystemsEmbedded Systems LabAdvance control system labIndustrial TrainingSeminarSocial Outreach, Discipline & Extra Curricular	
PEC PCC PCC PSIT PSIT SODECA	7EE5-11 7EE4-21 7EE4-22 7EE7-30 7EE7-40	Wind and Solar Energy SystemsEmbedded Systems LabAdvance control system labIndustrial TrainingSeminarSocial Outreach, Discipline & Extra CurricularActivities	
PEC PCC PCC PSIT PSIT SODECA SEMESTER	7EE5-11 7EE4-21 7EE4-22 7EE7-30 7EE7-40 7EE8-00	Wind and Solar Energy Systems Embedded Systems Lab Advance control system lab Industrial Training Seminar Social Outreach, Discipline & Extra Curricular Activities 8	
PEC PCC PCC PSIT SODECA SEMESTER Category	7EE5-11 7EE4-21 7EE4-22 7EE7-30 7EE7-40 7EE8-00	Wind and Solar Energy Systems Embedded Systems Lab Advance control system lab Industrial Training Seminar Social Outreach, Discipline & Extra Curricular Activities 8 Course Title	
PEC PCC PCC PSIT PSIT SODECA SEMESTER Category PEC	7EE5-11 7EE4-21 7EE4-22 7EE7-30 7EE7-40 7EE8-00 7EE8-00 8EE4-11 8AN6-	Wind and Solar Energy Systems Embedded Systems Lab Advance control system lab Industrial Training Seminar Social Outreach, Discipline & Extra Curricular Activities 8 Course Title HVDC Transmisssion System	
PEC PCC PCC PSIT PSIT SODECA SEMESTER Category PEC OE	7EE5-11 7EE4-21 7EE4-22 7EE7-30 7EE7-40 7EE8-00 7EE8-00 8EE4-00 8EE4-11 8AN6- 60.2	Wind and Solar Energy Systems Embedded Systems Lab Advance control system lab Industrial Training Seminar Social Outreach, Discipline & Extra Curricular Activities 8 Course Title HVDC Transmisssion System Factor of Human Interactions	

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	YEAR	SEM
	COURSE		
1	Discipline &	IV	VIII
	Extra		
	Curricular		
	activity		
	<u>Description</u>	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	Ι	I
		professional communication in End	tudents improve their nication in English for interactions. Each a particular area of nglish: writing emails, ngs and interviews,
	<u>Description</u>	giving presentation online. Whether a communicate to employees, partner	a person wants to potential employers, s or clients, better ttion 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	I II	
	<u>Activities</u>	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	

		course. Activities	basis throughout the Includes Scouts & g, Implementation, 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,	II	III/IV
	Discipline & Extra		
	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.	
	<u>Description</u>	Extracurricular activ to become involved other students, thus	ities provide a setting and to interact with leading to increased
7	Description Technical	Extracurricular activ to become involved other students, thus	ities provide a setting and to interact with leading to increased

	<u>Description</u>	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	IV VII
	Management	
	<u>Description</u>	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.
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

11	Sustainable	neural networks, Know the application of artificial neural networks, To be able to formalize the problem, to solve it by using a neural network.IVVII	
	Engineering		
	Description	overview of awareness at areas of sust understand t technology development familiarity v used for system deve students an u impact of engineering	provides students with an of develop an increased mong students on issues in cainability, To make students he role of engineering and within sustainable , To give students some with the methods and tools sustainable product-service elopment, To establish in inderstanding of the role and engineering activities and decisions on environmental, economic well-being.

Department of Mechanical Engineering

B. Tech Scheme 2022-23			
SEMESTER		1	
Category	Course Code	Course Title	
BSC	1FY2-01	Engineering Mathematics-I	
BSC	1FY2-03	Engineering Chemistry	
HSMC	1FY1-04	Communication Skills	
ESC	1FY3-06	Programming for Problem Solving	
ESC	1FY3-09	Basic Civil Engineering	
BSC	1FY2-21	Engineering Chemistry Lab	
HSMC	1FY1-22	Human Values Activities	
ESC	1FY3-24	Computer Programming Lab	
ESC	1FY3-27	Basic Civil Engineering Lab	
ESC	1FY3-28	Computer Aided Engineering Graphics	
SODECA	1FY8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		2	
Category	Course Code	Course Title	
BSC	2FY2-01	Engineering Mathematics-II	
BSC	2FY2-02	Engineering Physics	
HSMC	2FY1-05	Human Values	
ESC	2FY3-07	Basic Mechanical Engineering	
ESC	2FY3-08	Basic Electrical Engineering	
		Basic Electrical Engineering	
BSC	2FY2-20	Engineering Physics Lab	
BSC HSMC	2FY2-20 2FY1-23		
		Engineering Physics Lab	
HSMC	2FY1-23	Engineering Physics Lab Human Values Activities	
HSMC ESC	2FY1-23 2FY3-25	Engineering Physics Lab Human Values Activities Manufacturing Practices Workshop	
HSMC ESC ESC	2FY1-23 2FY3-25 2FY3-26	Engineering Physics Lab Human Values Activities Manufacturing Practices Workshop Basic Electrical Engineering Lab	
HSMC ESC ESC ESC	2FY1-23 2FY3-25 2FY3-26 2FY3-29	Engineering Physics Lab Human Values Activities Manufacturing Practices Workshop Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular	
HSMC ESC ESC ESC	2FY1-23 2FY3-25 2FY3-26 2FY3-29	Engineering Physics Lab Human Values Activities Manufacturing Practices Workshop Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular	
HSMC ESC ESC ESC SODECA	2FY1-23 2FY3-25 2FY3-26 2FY3-29	Engineering Physics Lab Human Values Activities Manufacturing Practices Workshop Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular Activities	
HSMC ESC ESC SODECA SEMESTER	2FY1-23 2FY3-25 2FY3-26 2FY3-29 2FY8-00	Engineering Physics Lab Human Values Activities Manufacturing Practices Workshop Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular Activities 3	
HSMC ESC ESC SODECA SEMESTER Category	2FY1-23 2FY3-25 2FY3-26 2FY3-29 2FY8-00 Course Code	Engineering Physics Lab Human Values Activities Manufacturing Practices Workshop Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular Activities 3 Course Title	
HSMC ESC ESC SODECA SEMESTER Category BSC	2FY1-23 2FY3-25 2FY3-26 2FY3-29 2FY8-00 Course Code 3ME2-01	Engineering Physics Lab Human Values Activities Manufacturing Practices Workshop Basic Electrical Engineering Lab Computer Aided Machine Drawing Social Outreach, Discipline & Extra Curricular Activities 3 Course Title Advance Engineering Mathematics-I	

PCC	3ME4-06	3ME4-06 Materials Science and Engineering	
PCC	3ME4-07	3ME4-07 Mechanics of Solids	
PCC	3ME4-21	Machine Drawing Practice	
PCC	3ME4-22	Materials Testing Lab	
PCC	3ME4-23	3ME4-23 Basic Mechanical Engineering Lab	
PCC	3ME4-24 Programming using MATLAB		
PSIT	3ME7-30 Industrial Training		
SODECA	3ME8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		4	

SEMESTER	4		
Category	Course Course Title		
BSC	4ME2-01	Data analytics	
HSMC	4ME1-03	Managerial Economics and Financial Accounting	
ESC	4ME3-04	Digital Electronics	
PCC	4ME4-05	Fluid Mechanics and Fluid Machines	
PCC	4ME4-06	Manufacturing Processes	
PCC	4ME4-07	Theory of machines	
PCC	4ME3-21	Digital Electronics lab	
PCC	4ME4-22	Fluid Mechanics lab	
PCC	4ME4-23	Production practice lab	
PCC	4ME4-24 Theory of machines Lab		
SODECA	4ME8-00 Social Outreach, Discipline & Extra Curricular Activities		
SEMESTER		5	

SEMESTER	5		
Category	Course Course Title		
ESC	5ME3-01	Mechatronics System	
PCC	5ME4-02	Heat Transfer	
PCC	5ME4-03	Manufacturing Technology	
PCC	5ME4-04	Design of Machine Element-I	
PCC	5ME4-05	Principles of Management	
PCC	5ME5-11	Steam Engineering	
PCC	5ME4-12	Automobile Engineering	
ESC	5ME3-21	Mechatronics Lab	
PCC	5ME4-22 Heat Transfer lab		
PCC	5ME4-23	Production Engineering lab	
PCC	5ME4-24	Machine Design Practice-I	
PSIT	3ME7-30	Industrial Training	
SODECA	5ME8-00 Social Outreach, Discipline & Extra Curricular Activities		

SEMESTER	6		
Category	Course Code	Course Title	
ESC	6ME3-01	Measurement & Metrology	
PCC	6ME4-02	Computer Integrated Manufacturing Systems	
PCC	6ME4-03	Mechanical Vibrations	
PCC	6ME4-04	Design of Machine Element-II	
PCC	6ME4-05	Quality Management	
PCC	6ME5-11	Refrigeration& Air Conditioning	
PCC	6ME4-21	CIMS Lab	
PCC	6ME4-22	Vibration Lab	
PCC	6ME4-23	Machine Design Practice-II	
PCC	6ME4-24	Thermal Engineering Lab-I	
SODECA	6ME8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		7	
Category	Course Code	Course Title	
PEC	7ME5-11	IC Engine	
OE	7AG6- 60.1	Human Engineering and Safety	
PCC	7ME4-21	FEA Lab	
PCC	7ME4-22	Thermal Engineering Lab II	
PCC	7ME4-23	Quality Control Lab	
PSIT	7ME7-30	Industrial Training	
PSIT	7ME7-40	Seminar	
SODECA	7ME8-00	Social Outreach, Discipline & Extra Curricular Activities	
SEMESTER		8	
Category	Course Code	Course Title	
PEC	8ME5-12	Supply and Operations Management	
OE	8TT6- 60.2	Disaster Management	
PCC	8ME4-21	Industrial Engineering Lab	
PCC	8ME4-22	Metrology Lab	
PSIT	8ME7-50	Project	
SODECA	8ME8-00	Social Outreach, Discipline & Extra Curricular 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	YEAR	SEM	
5.10	COURSE			
1	Discipline &	IV	VII,VIII	
-	Extra		v 11, v 111	
	Curricular			
	activity			
	uctivity	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	IV	VII	
	Engineering and			
	Safety			
		A human engineering effort is conducted		
		to develop or improve human interface of		
		the system Achieve required effectiveness		
	Description	of human performance during system		
		operation, maintenance and support and		
		make economical demands upon personnel		
		resources skills, training and costs.		
3	Communication	Ι	I/II	
	skills			
		This course helps students improve their		

		evaluate objects, per that form part and part	rsons, and situations arcel of sociality. A t of consistent values vledge of the values	
		evaluate objects, per that form part and part	rsons, and situations arcel of sociality. A	
		•	-	
		Values are socially accepted norms to evaluate objects, persons, and situations		
		The objective of the course is listed as:		
		students with knowledge on Value System and its importance in Human existence.		
		Education is aimed at providing the		
		knowledge about Ethics as a subject matter. The Course Human Value		
		instill the ethical values and to provide the		
•			Values envisages to	
4	Human Values	Ievei.	I/II	
		take the career or business to the next level.		
		goals. This course will focus especially on making those important connections to		
		achieve their language and professional		
		employees, partners or clients, better English communication can help them		
		communicate to potential employers,		
		online. Whether a person wants to		
		speaking at meetings and interviews, giving presentations, and networking		
		communication in English: writing emails,		
		chapter focuses on a particular area of		
1		professional communication in English for successful business interactions. Each		

		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 Curricular Activities	Π	III/IV
		The primary goals of activities focus on the level, the institutionation of the second	ne individual student

		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	II	III	
	Communication			
		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.		