

Semester III

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
070121301EC	Engineering Mathematics – III	ES	3	2	-	-	-	40	60	4	100
070121302EC	Semiconductor Devices and Circuit Applications	C	3	2	-	-	-	40	60	4	100
070121303EC	Network Analysis & Synthesis	C	4	-	-	-	-	40	60	4	100
070121304EC	Digital Electronics	C	4	-	-	-	-	40	60	4	100
070121305EC	Electrical Machines	ID	4	-	-	-	-	40	60	4	100
070121306EC	Engineering Mathematics – III Lab	ES	-	-	2	10	15	-	-	1	25
070121307EC	Semiconductor Devices and Circuits Applications Lab	C	-	-	2	10	15	-	-	1	25
070121308EC	Network Analysis & Synthesis Lab	C	-	-	2	10	15	-	-	1	25
070121309EC	Electronic Circuits Simulation and Testing Lab	C	-	-	2	10	15	-	-	1	25
070121310EC	Digital Electronics Lab	C	-	-	2	10	15	-	-	1	25
070121311EC	Electrical Machines Lab	ID	-	-	2	10	15	-	-	1	25
	Total		18	4	12	60	90	200	300	26	650
070121312EC	*Integrated Disaster Management	GP	-	-	-	-	-	-	-	1	-

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self-study/assignments.

Semester IV

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121401EC	Signals and Systems	C	3	2	-	-	-	40	60	4	100
070121402EC	Control Systems	C	3	-	-	-	-	30	45	3	75
070121403EC	Analog Circuit Design	C	4	-	-	-	-	40	60	4	100
070121404EC	Electromagnetic Field Theory	C	3	2	-	-	-	40	60	4	100
070121405EC	Analog Communication	C	4	-	-	-	-	40	60	4	100
070121406EC	Industrial Management	ID	3	-	-	-	-	30	45	3	75
070121407EC	Signals and Systems Lab	C	-	-	2	10	15	-	-	1	25
070121408EC	Control Systems Lab	C	-	-	2	10	15	-	-	1	25
070121409EC	Analog Circuit Design Lab	C	-	-	2	10	15	-	-	1	25
070121410EC	Analog Communication Lab	C	-	-	2	10	15	-	-	1	25
070121411EC	Electronics Workshop Practice	C	-	-	2	-	-	25	-	1	25
	Total		20	4	10	40	60	245	330	27	675

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self-study/assignments.

Semester V

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
070121501EC	Data Structures and Algorithms	ID	4	-	-	-	-	40	60	4	100
070121502EC	Digital Signal Processing	C	4	2	-	-	-	50	75	5	125
070121503EC	Digital Communication	C	4	-	-	-	-	40	60	4	100
070121504EC	Microcontrollers and Applications	C	3	2	-	-	-	40	60	4	100
070121505EC	Power Electronics	C	4	-	-	-	-	40	60	4	100
070121506EC	Data Structures and Algorithms Lab	ID	-	-	2	10	15	-	-	1	25
070121507EC	Digital Signal Processing Lab	C	-	-	2	10	15	-	-	1	25
070121508EC	Digital Communication Lab	C	-	-	2	10	15	-	-	1	25
070121509EC	Microcontrollers and Applications Lab	C	-	-	2	10	15	-	-	1	25
070121510EC	Power Electronics Lab	C	-	-	2	10	15	-	-	1	25
	Total		19	4	10	50	75	210	315	26	650

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self-study/assignments.

Semester VI

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical	CA	ESE			
						Int	Ext				
070121601EC	Embedded System Design	ID	3	2	-	-	-	40	60	4	100
070121602EC	VLSI Design	C	4	-	-	-	-	40	60	4	100
070121603EC	Total Quality Management	C	3	-	-	-	-	30	45	3	75
070121604EC	Computer Networks Wireless Voice	C	4	-	-	-	-	40	60	4	100
070121605EC	Microwave Communication	C	3	-	-	-	-	30	45	3	75
070121606EC	Embedded System Design Lab	ID	-	-	2	10	15	-	-	1	25
070121607EC	VLSI Design Lab	C	-	-	2	10	15	-	-	1	25
070121608EC	Computer Networks Wireless Voice Lab	C	-	-	2	10	15	-	-	1	25
070121609EC	Microwave Communication Lab	C	-	-	2	10	15	-	-	1	25
070121610EC	Entrepreneurship	PD	2	-	-	-	-	50	-	2	50
070121611- 22EC	Free Elective	ID	3	-	-	-	-	30	45	3	75
Total			22	2	8	40	60	260	315	27	675

Free Electives – (Select any One)

070121611EC	Geographic Information Systems	070121617EC	Printed Circuit Board (PCB) Design
070121612EC	Earthquake Engineering	070121618EC	Fundamentals of Automotive Technology
070121613EC	JAVA	070121619EC	Six Sigma
070121614EC	Open Source Technologies	070121620EC	Nanotechnology
070121615EC	Database Management System	070121621EC	Smart Material Science
070121616EC	MATLAB	070121622EC	Introduction to Statistical Product and Service Solutions (SPSS)

For 2hours tutorial, there will be 1 hour class room teaching and 1 hour projects/self-study/assignments.

Semester VII

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
Group A											
070121701EC	Internship (6 Months)	C	-	-	-	-	-	400	-	16	400
OR											
070121729EC	Global Immersion Programme	I	I	I	I	I	I	I	400	16	400
070121702EC	Seminar	C	-	-	-	-	-	100	-	4	100
Total			-	-	-	-	-	500	-	20	500
OR											
070121730EC	Global Immersion Programme	I	I	I	I	I	I	I	300	12	300
070121731EC	Project	PD	I	I	8	I	I	100	I	4	100
070121702EC	Seminar	C	I	I	I	I	I	100	I	4	100
Total			-	-	-	-	-	200	300	20	500
Group B											
070121703EC	Project	PD	-	-	8	-	-	100	-	4	100
070121704EC	Internship (8 weeks)	PD	-	-	8	-	-	100	-	4	100
070121705-22EC	Liberal Arts	GP	2	-	-	-	-	50	-	2	50
070121723EC	Service learning	GP	2	-	-	-	-	50	-	2	50
070121724EC	Software Testing	C	2	-	-	-	-	20	30	2	50
070121725EC	Fiber Optics	C	3	-	-	-	-	30	45	3	75
070121726EC	Performing Arts	GP	-	-	2	10	15	-	-	1	25
070121727EC	Software Testing Lab	C	-	-	2	10	15	-	-	1	25
070121728EC	Fiber Optics Lab	C	-	-	2	10	15	-	-	1	25
Total			9	-	22	30	45	350	75	20	500

Liberal Arts – (Select any One)

070121705EC	Technical Writing	070121714EC	Impact of Science & Technology on Human Civilization
070121706EC	Creative Writing	070121715EC	Women and Gender Studies
070121707EC	Principles of Economics	070121716EC	Organizational Behavior

070121708EC	Intellectual Property Rights	070121717EC	Quantitative Reasoning: Mathematics
070121709EC	Cyber Law	070121718EC	Photography
070121710EC	Creativity and Innovations	070121719EC	German
070121711EC	Society and Science	070121720EC	French
070121712EC	Sustainability Studies	070121721EC	Chinese
070121713EC	Environmental Awareness: Only One Earth	070121722EC	Philosophy

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self-study/assignments.

Semester VIII

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical	CA	ESE			
						Int	Ext				
070121801EC	Project	C	-	-	8	40	60	-	-	4	100
070121802-04 EC	Elective I	C	4	-	-	-	-	40	60	4	100
070121805-07 EC	Elective II	C	4	-	-	-	-	40	60	4	100
070121808EC	Sensors and Transducers	C	4	-	-	-	-	40	60	4	100
070121809EC	Alternate Energy	C	4	-	-	-	-	40	60	4	100
070121810EC	Antenna & Wave Propagation	C	4	-	-	-	-	40	60	4	100
070121811EC	Alternate Energy Lab	C	-	-	2	10	15	-	-	1	25
070121812-814EC	Elective –I Lab	C	-	-	2	10	15	-	-	1	25
Total			20	0	12	60	90	200	300	26	650

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

Electives for Semester VIII (Choose any one from 802 to 804 and one from 812 to 814)- Elective – I											
Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical	CA	ESE			
						Int	Ext				
070121802EC	Random Variables and Stochastic Processes	C	4	-	-	-	-	40	60	4	100
070121803EC	Digital Image Processing	C	4	-	-	-	-	40	60	4	100
070121804EC	Robotics	ID	4	-	-	-	-	40	60	4	100
070121812EC	Random Variables and Stochastic Processes Lab	C	-	-	2	10	15	-	-	1	25
070121813EC	Digital Image Processing Lab	C	-	-	2	10	15	-	-	1	25
070121814EC	Robotics Lab	ID	-	-	2	10	15	-	-	1	25

Electives for Semester VIII (Choose any one)- Elective – II											
Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical	CA	ESE			
						Int	Ext				
070121805EC	Advanced Power Electronics	C	4	-	-	-	-	40	60	4	100
070121806EC	Mechatronics	ID	4	-	-	-	-	40	60	4	100
070121807EC	Artificial Intelligence	ID	4	-	-	-	-	40	60	4	100

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self-study/assignments.

L- Lecture , T-Tutorial, HA-Home Assignment

C - Core Course

ES - Engineering Science Course

GP - General Proficiency Course

ID - Inter Disciplinary Course

PD - Professional Development Course

CA- Continuous Assessment, ESE- End Semester Examination

Practical, CA, ESE are separate heads of Passing

Int- Internal (Practical)

Ext- External (Practical)

Practical external examination may be conducted by alternate internal faculty

*Integrated Disaster Management course is mandatory for the award of degree.