

Semester III											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121301 EC	Engineering Mathematics – III	ES	3	2	0	0	0	40	60	4	100
070121302 EC	Semiconductor Devices and Circuit Applications	C	3	2	0	0	0	40	60	4	100
070121303 EC	Network Analysis & Synthesis	C	4	0	0	0	0	40	60	4	100
070121304 EC	Digital Electronics	C	4	0	0	0	0	40	60	4	100
070121305 EC	Electrical Machines	ID	4	0	0	0	0	40	60	4	100
070121306 EC	Integrated Disaster Management #	GP	3#	0	0	0	0	75#	0	3#	75#
070121307 EC	Engineering Mathematics – III Lab	ES	0	0	2	10	15	0	0	1	25
070121308 EC	Semiconductor Devices and Circuits Applications lab	C	0	0	2	10	15	0	0	1	25
070121309 EC	Network Analysis & Synthesis Lab	C	0	0	2	10	15	0	0	1	25
070121310 EC	Electronic Circuits Simulation and Testing Lab	C	0	0	2	10	15	0	0	1	25
070121311 EC	Digital Electronics Lab	C	0	0	2	10	15	0	0	1	25
070121312 EC	Electrical Machines Lab	ID	0	0	2	10	15	0	0	1	25
	Total		18	4	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.

Semester IV											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
070121401 EC	Signals and Systems	C	3	2	0	0	0	40	60	4	100
070121402 EC	Control Systems	C	3	0	0	0	0	30	45	3	75
070121403 EC	Analog Circuit design	C	4	0	0	0	0	40	60	4	100
070121404 EC	Electromagnetic Field Theory	C	3	2	0	0	0	40	60	4	100
070121405 EC	Analog Communication	C	4	0	0	0	0	40	60	4	100
070121406 EC	Industrial Management	ID	3	0	0	0	0	30	45	3	75
070121407 EC	Signals and Systems Lab	C	0	0	2	10	15	0	0	1	25
070121408 EC	Control Systems Lab	C	0	0	2	10	15	0	0	1	25
070121409 EC	Analog Circuit design Lab	C	0	0	2	10	15	0	0	1	25
070121410 EC	Analog Communication Lab	C	0	0	2	10	15	0	0	1	25
070121411 EC	Electronics Workshop Practice	C	0	0	2	0	0	25	0	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											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121501 EC	Data Structures and Algorithms	ID	4	0	0	0	0	40	60	4	100
070121502E C	Digital Signal Processing	C	4	2	0	0	0	50	75	5	125
070121503 EC	Digital Communication	C	4	0	0	0	0	40	60	4	100
070121504 EC	Microcontrollers and applications	C	3	2	0	0	0	40	60	4	100
070121505 EC	Power Electronics	C	4	0	0	0	0	40	60	4	100
070121506 EC	Data Structures and Algorithms Lab	ID	0	0	2	10	15	0	0	1	25
070121507 EC	Digital Signal Processing Lab	C	0	0	2	10	15	0	0	1	25
070121508 EC	Digital Communication Lab	C	0	0	2	10	15	0	0	1	25
070121509 EC	Microcontrollers and applications Lab	C	0	0	2	10	15	0	0	1	25
070121510 EC	Power Electronics Lab	C	0	0	2	10	15	0	0	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											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121601 EC	Embedded System Design	ID	3	2	0	0	0	40	60	4	100
070121602 EC	VLSI Design	C	4	0	0	0	0	40	60	4	100
070121603 EC	Total Quality Management	C	3	0	0	0	0	30	45	3	75
070121604 EC	Computer Networks Wireless Voice	C	4	0	0	0	0	40	60	4	100
070121605 EC	Microwave Communication	C	3	0	0	0	0	30	45	3	75
070121606 EC	Embedded System Design Lab	ID	0	0	2	10	15	0	0	1	25
070121607 EC	VLSI Design Lab	C	0	0	2	10	15	0	0	1	25
070121608 EC	Computer Networks Wireless Voice Lab	C	0	0	2	10	15	0	0	1	25
070121609 EC	Microwave Communication Lab	C	0	0	2	10	15	0	0	1	25
070121610 EC	Entrepreneurship	PD	2	0	0	0	0	50	0	2	50
070121611-22EC	Free Elective	ID	3	0	0	0	0	30	45	3	75
Total			22	2	8	40	60	260	315	27	675

Free Electives – (Select any One)

70121611EC	Geographic Information Systems	70121617EC	Printed Circuit Board (PCB) Design
70121612EC	Earthquake Engineering	70121618EC	Fundamentals of Automotive Technology
70121613EC	JAVA	70121619EC	Six Sigma
70121614EC	Open Source Technologies	70121620EC	Nanotechnology
70121615EC	Database Management System	70121621EC	Smart Material
70121616EC	MATLAB	70121622EC	Introduction to Statistical Product and Service Solutions (SPSS)

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

Semester VII (Project Semester)											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
Group A											
070121701 EC	Internship (6 Months)	C	0	0	0	0	0	400	0	16	400
OR											
070121728 EC	Global Immersion Programme	-	-	-	-	-	-	-	-	-	-
070121702 EC	Seminar	C	0	0	0	0	0	100	0	4	100
Total			0	0	0	0	0	500	0	20	500
070121729 EC	Global Immersion Programme	-	-	-	-	-	-	-	300	12	300
070121730 EC	Project	PD	0	0	8	0	0	100	0	4	100
Group B											
070121703 EC	Project	PD	0	0	8	0	0	100	0	4	100
070121704 EC	Internship (8 weeks)	PD	0	0	8	0	0	100	0	4	100
070121705-22 EC	Liberal Arts	PD	2	0	0	0	0	50	0	2	50
070121723 EC	Service learning	PD	2	0	0	0	0	50	0	2	50
070121724 EC	Software Testing	C	3	0	0	0	0	30	45	3	75
070121725 EC	Fiber Optics	C	3	0	0	0	0	30	45	3	75
070121726 EC	Software Testing Lab	C	0	0	2	10	15	0	0	1	25
070121727 EC	Fiber Optics Lab	C	0	0	2	10	15	0	0	1	25
Total			10	0	20	20	30	360	90	20	500

Liberal Arts – (Select any One)

070121705EC	Technical Writing	070121714EC	Impact of Science and Technology on Human Civilization
070121706EC	Creative Writing	070121715EC	Women and Gender Studies
070121707EC	Principles of Economics	070121716EC	Organizational Behavior
070121708EC	Intellectual Property Rights (IPR)	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											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121801 EC	Project	C	0	0	8	40	60	0	0	4	100
070121802-04 EC	Elective I	C	4	0	0	0	0	40	60	4	100
070121805-07 EC	Elective II	C	4	0	0	0	0	40	60	4	100
070121808 EC	Sensors and Transducers	C	4	0	0	0	0	40	60	4	100
070121809 EC	Alternate Energy	C	4	0	0	0	0	40	60	4	100
070121810 EC	Antenna & Wave propagation	C	4	0	0	0	0	40	60	4	100
070121811 EC	Alternate Energy Lab	C	0	0	2	10	15	0	0	1	25
070121812-814 EC	Elective –I Lab	C	0	0	2	10	15	0	0	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)											
Subject Code	Elective – I	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121802 EC	Random Variables and Stochastic Processes	C	4	0	2	0	0	40	60	4	100
070121803 EC	Digital Image Processing	C	4	0	2	0	0	40	60	4	100
070121804 EC	Robotics	ID	4	0	2	0	0	40	60	4	100
070121812 EC	Random Variables and Stochastic Processes Lab	C	0	0	2	10	15	0	0	1	25
070121813 EC	Digital Image Processing Lab	C	0	0	2	10	15	0	0	1	25
070121814 EC	Robotics Lab	ID	0	0	2	10	15	0	0	1	25

Electives for Semester VIII (Choose any one)											
Subject Code	Elective – II	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121805 EC	Advanced Power Electronics	C	4	0	0	0	0	40	60	4	100
070121806 EC	Mechatronics	ID	4	0	0	0	0	40	60	4	100
070121807 EC	Artificial Intelligence	ID	4	0	0	0	0	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

CA- Continuous Assessment, ESE- End Semester Examination

C - Core Subject

Practical, CA, ESE are separate heads of Passing

ES - Engineering Science Subject

Int- Internal (Practical)

GP - General Proficiency Subject

Ext- External (Practical)

ID - Inter Disciplinary Subject

Practical external examination may be conducted by alternate internal faculty

PD - Professional Development Subject

- Credits Over & above 200