

SEMESTER I

SLOT	COURSE NO.	COURSES	L-T-P	HOURS	CREDIT
A	22MAT101	LINEAR ALGEBRA AND CALCULUS	3-1-0	4	4
B 1/2	22PHT102	ENGINEERING PHYSICS A	3-1-0	4	4
	22CHT103	ENGINEERING CHEMISTRY	3-1-0	4	4
C 1/2	22EST104	ENGINEERING MECHANICS	2-1-0	3	3
	22EST105	ENGINEERING GRAPHICS	2-0-2	4	3
D 1/2	22EST106	BASICS OF CIVIL & MECHANICAL ENGINEERING	4-0-0	4	4
	22EST107	BASICS OF ELECTRICAL & ELECTRONICS ENGINEERING	4-0-0	4	4
E	22MNC110	LIFE SKILLS	2-0-2	4	--
S 1/2	22PHL 113	ENGINEERING PHYSICS LAB	0-0-2	2	1
	22CHL114	ENGINEERING CHEMISTRY LAB	0-0-2	2	1
T 1/2	22ESL 115	CIVIL & MECHANICAL WORKSHOP	0-0-2	2	1
	22ESL 116	ELECTRICAL & ELECTRONICS WORKSHOP	0-0-2	2	1
TOTAL				23/24*	17

SEMESTER II

SLOT	COURSENO.	COURSES	L-T-P	HOURS	CREDIT
A	22MAT201	VECTOR CALCULUS, DIFFERENTIAL EQUATIONS AND TRANSFORMS	3-1-0	4	4
B 1/2	22PHT201	ENGINEERING PHYSICS A	3-1-0	4	4
	22CHT203	ENGINEERING CHEMISTRY	3-1-0	4	4
C 1/2	22EST 204	ENGINEERING MECHANICS	2-1-0	3	3
	22EST 205	ENGINEERING GRAPHICS	2-0-2	4	3
D 1/2	22EST206	BASICS OF CIVIL & MECHANICAL ENGINEERING	4-0-0	4	4
	22EST207	BASICS OF ELECTRICAL & ELECTRONICS ENGINEERING	4-0-0	4	4
E	22HUT209	PROFESSIONAL COMMUNICATION	2-0-2	4	--
F	22EST210	PROGRAMMING IN C	2-1-2	5	4
S 1/2	22ESL211	ENGINEERING PHYSICS LAB	0-0-2	2	1
	22ESL212	ENGINEERING CHEMISTRY LAB	0-0-2	2	1
T 1/2	22ESL213	CIVIL & MECHANICAL WORKSHOP	0-0-2	2	1
	22ESL214	ELECTRICAL & ELECTRONICS WORKSHOP	0-0-2	2	1
TOTAL				28/29	21

SEMESTER III

SLOT	COURSENO.	COURSES	L-T-P	HOURS	CREDIT
A	22MAT301	PARTIAL DIFFERENTIAL EQUATION AND COMPLEX ANALYSIS	3-1-0	4	4
B	22ECT301	SOLID STATE DEVICES	3-1-0	4	4
C	22ECT302	LOGIC CIRCUIT DESIGN	3-1-0	4	4
D	22ECT303	NETWORK THEORY	3-1-0	4	4
E	22EST304	DESIGN AND ENGINEERING	2-0-0	2	2
1/2	22HUT305	PROFESSIONAL ETHICS	2-0-0	2	2
F	22MNC306	SUSTAINABLE ENGINEERING	2-0-0	2	--
S	22ECL307	SCIENTIFIC COMPUTING LAB	0-0-3	3	2
T	22ECL308	LOGIC DESIGN LAB	0-0-3	3	2
R/M	22ECMR 309.1/2/3	Remedial / Minor Course	3-1-0	4**	4
TOTAL				26/30	22/26

SEMESTER IV

SLOT	COURSE NO.	COURSES	L-T-P	HOURS	CREDIT
A	22MAT401	PROBABILITY, RANDOM PROCESS AND NUMERICAL METHODS	3-1-0	4	4
B	22ECT401	ANALOG CIRCUITS	3-1-0	4	4
C	22ECT402	SIGNALS AND SYSTEMS	3-1-0	4	4
D	22ECT403	COMPUTER ARCHITECTURE AND MICRO-CONTROLLERS	3-1-0	4	4
E	22EST404	DESIGN AND ENGINEERING	2-0-0	2	2
1/2	22HUT405	PROFESSIONAL ETHICS	2-0-0	2	2
F	22MNC406	CONSTITUTION OF INDIA	2-0-0	2	--
S	22ECL407	ANALOG CIRCUITS AND SIMULATION LAB	0-0-3	3	2
T	22ECL408	MICROCONTROLLER LAB	0-0-3	3	2
R/M/H	22ECMR409.1/2/3 22ECHR410.1/2/3	Remedial / Minor / Honours Course	3-1-0	4**	4
TOTAL				26/30	22/26

SEMESTER V

SLOT	COURSENO.	COURSES	L-T-P	HOURS	CREDIT
A	22ECT501	LINEAR INTEGRATED CIRCUITS	3-1-0	4	4
B	22ECT502	DIGITAL SIGNAL PROCESSING	3-1-0	4	4
C	22ECT503	ANALOG AND DIGITAL COMMUNICATION	3-1-0	4	4
D	22ECT504	CONTROL SYSTEMS	3-1-0	4	4
E 1/2	22HUT505	INDUSTRIAL ECONOMICS AND FOREIGN TRADE	3-0-0	3	3
	22HUT506	MANAGEMENT FOR ENGINEERS	3-0-0	3	3
F	22MNC507	DISASTER MANAGEMENT	2-0-0	2	--
S	22ECL508	ANALOG INTEGRATED CIRCUITS AND SIMULATION LAB	0-0-3	3	2
T	22ECL509	DIGITAL SIGNAL PROCESSING LAB	0-0-3	3	2
R/M/H	22ECMR510.1/2/3 22ECHR511.12/3	Remedial / Minor / Honours Course	3-1-0	4**	4
TOTAL				27/31	23/27

SEMESTER VI

SLOT	COURSENO.	COURSES	L-T-P	HOURS	CREDIT
A	22ECT601	ELECTRO MAGNETICS	3-1-0	4	4
B	22ECT602	VLSI CIRCUIT DESIGN	3-1-0	4	4
C	22ECT603	INFORMATION THEORY AND CODING	3-1-0	4	4
D	22ECE604	PROGRAM ELECTIVE-I	2-1-0	3	3
E ½	22HUT605	INDUSTRIAL ECONOMICS AND FOREIGN TRADE	3-0-0	3	3
	22HUT606	MANAGEMENT FOR ENGINEERS	3-0-0	3	3
F	22ECT607	COMPREHENSIVE COURSE WORK	1-0-0	1	1
S	22ECL608	COMMUNICATION LAB	0-0-3	3	2
T	22ECP609	MINI PROJECT	0-0-3	3	2
R/M/H	22ECMR610.1/2/3 22ECHR611.1/2/3	Remedial / Minor / Honours Course	3-1-0	4**	4
TOTAL				25/29	23/27

PROGRAM ELECTIVE I

SLOT	COURSENO.	COURSES	L-T-P	HOURS	CREDIT
D	22ECE604.1	Digital System Design	2-1-0	3	3
	22ECE604.2	Power Electronics	2-1-0		
	22ECE604.3	Data Analysis	2-1-0		
	22ECE604.4	Embedded Systems	2-1-0		
	22ECE604.5	Digital Image Processing	2-1-0		
	22ECE604.6	Introduction to MEMS	2-1-0		
	22ECE604.7	Quantum Computing	2-1-0		

SEMESTER VII

SLOT	COURSENO.	COURSES	L-T-P	HOURS	CREDIT
A	22ECT701	MICROWAVES & ANTENNA	2-1-0	3	3
B	22ECE702	PROGRAM ELECTIVE II	2-1-0	3	3
C	22ECO703	OPEN ELECTIVE	2-1-0	3	3
D	22ECT704	INDUSTRIAL SAFETY ENGINEERING	2-1-0	3	---
S	22ECL705	ELECTROMAGNETICS LAB	0-0-3	3	2
T	22ECS706	SEMINAR	0-0-3	3	2
U	22ECP707	PROJECT PHASE-I	0-0-6	6	2
R/M/H	22ECMRP708 22ECHR709.1/2/3	Remedial / Minor Mini Project / Honors Course	3-1-0	4*	4
TOTAL				24/28	15/19

PROGRAM ELECTIVE II

SLOT	COURSE NO.	COURSES	L-T-P	HOURS	CREDIT
B	22ECE702.1	Optical Fiber Communication	2-1-0	3	3
	22ECE702.2	Computer Networks	2-1-0		
	22ECE702.3	Opto-Electronic Devices	2-1-0		
	22ECE702.4	Instrumentation	2-1-0		
	22ECE702.5	Error Control Codes	2-1-0		
	22ECE702.6	Machine Learning	2-1-0		
	22ECE702.7	DSP Architectures	2-1-0		

OPEN ELECTIVE (OE)

SLOT	COURSENO.	COURSES	L-T-P	HOURS	CREDIT
C	22ECO703.1	Mechatronics	2-1-0	3	3
	22ECO703.2	Biomedical Instrumentation	2-1-0		
	22ECO703.3	Electronic Hardware for Engineers	2-1-0		
	22ECO703.4	IoT and Applications	2-1-0		
	22ECO703.5	Entertainment Electronics	2-1-0		

SEMESTER VIII

SLOT	COURSENO.	COURSES	L-T-P	HOURS	CREDIT
A	22ECT801	WIRELESS COMMUNICATION	2-1-0	3	3
B	22ECE802	PROGRAM ELECTIVE-III	2-1-0	3	3
C	22ECE803	PROGRAM ELECTIVE-IV	2-1-0	3	3
D	22ECE804	PROGRAM ELECTIVE-V	2-1-0	3	3
E	22ECT805	COMPREHENSIVE VIVA VOCE	1-0-0	1	1
U	22ECP806	PROJECT PHASE-II	0-0-12	12	4
R/M/H	22ECMRP807 22ECHR808	Remedial / Minor Project / Honours Project	3-1-0	4*	4
TOTAL				25/28	17/21

PROGRAM ELECTIVE III

SLOT	COURSENO.	COURSES	L-T-P	HOURS	CREDIT
B	22ECE802.1	Biomedical Engineering	2-1-0	3	3
	22ECE802.2	Satellite Communication	2-1-0		
	22ECE802.3	Secure Communication	2-1-0		
	22ECE802.4	Pattern Recognition	2-1-0		
	22ECE802.5	RF Circuit Design	2-1-0		
	22ECE802.6	Mixed Signal Circuit Design	2-1-0		
	22ECE802.7	Entrepreneurship	2-1-0		

PROGRAM ELECTIVE IV

SLOT	COURSENO.	COURSES	L-T-P	HOURS	CREDIT
C	22ECE803.1	Modern Communication Systems	2-1-0	3	3
	22ECE803.2	Real Time Operating Systems	2-1-0		
	22ECE803.3	Adaptive Signal Processing	2-1-0		
	22ECE803.4	Microwave Devices and Circuits	2-1-0		
	22ECE803.5	Speech and Audio Processing	2-1-0		
	22ECE803.6	Analog CMOS Design	2-1-0		
	22ECE803.7	Robotics	2-1-0		

PROGRAM ELECTIVE V

SLOT	COURSENO.	COURSES	L-T-P	HOURS	CREDIT
D	22ECE804.1	Mechatronics	2-1-0	3	3
	22ECE804.2	Optimization Techniques	2-1-0		
	22ECE804.3	Computer Vision	2-1-0		
	22ECE804.4	Low Power VLSI	2-1-0		
	22ECE804.5	Internet of Things	2-1-0		
	22ECE804.6	Renewable Energy Systems	2-1-0		
	22ECE804.7	Organic Electronics	2-1-0		

MINOR

SEMESTER	BASKET I				BASKET II				BASKET III			
	Course No.	Course Name	H O U R S	C R E D I T	Course No.	Course Name	H O U R S	C R E D I T	Course No.	Course Name	H O U R S	C R E D I T
S3	22ECMR309.1	Electronic systems	4	4	22ECMR309.2	Analog communication	4	4	22ECMR309.3	Introduction to Signals and Systems	4	4
S4	22ECMR409.1	Microcontrollers	4	4	22ECMR409.2	Digital communication	4	4	22ECMR409.3	Introduction to digital signal	4	4
S5	22ECMR510.1	Embedded System Design	4	4	22ECMR510.2	Communication Systems	4	4	22ECMR510.3	Topics in digital image processing	4	4
S6	22ECMR610.1	VLSI Circuits	4	4	22ECMR610.2	Data Networks	4	4	22ECMR610.3	Topics in computer vision	4	4
S7	22ECMRP708	MINI PROJECT	4	4	22ECMRP708	MINI PROJECT	4	4	22ECMRP708	MINI PROJECT	4	4
S8	22ECMRP807	MINI PROJECT	4	4	22ECMRP807	MINI PROJECT	4	4	22ECMRP807	MINI PROJECT	4	4

HONOURS

SEMESTER	GROUP I				GROUP II				GROUP III			
	Course No.	Course Name	HOURS	CREDITS	Course No.	Course Name	HOURS	CREDITS	Course No.	Course Name	HOURS	CREDITS
S 4	22ECHR410.1	Nanoelectronics	4	4	22ECHR410.2	Stochastic Processes for Communication	4	4	22ECHR410.3	Stochastic Signal Processing	4	4
S 5	22ECHR511.1	FPGA Based System Design	4	4	22ECHR511.2	Detection And Estimation Theory	4	4	22ECHR511.3	Computational Tools for Signal Processing	4	4
S 6	22ECHR611.1	Electronic Design and Automation Tools	4	4	22ECHR611.2	MIMO and Multiuser communication systems	4	4	22ECHR611.3	Detection And Estimation Theory	4	4
S 7	22ECHR709.1	RF MEMS	4	4	22ECHR709.2	Design and Analysis of Antennas	4	4	22ECHR709.3	Multirate Signal Processing and Wavelets	4	4
S 8	22ECHRP808	MINIPROJECT	4	4	22ECHRP808	MINIPROJECT	4	4	22ECHRP808	MINIPROJECT	4	4