M. Tech in Electronics and Communication Engineering

(With specialization in Communication Engineering / VLSI Design) ${\color{red} 2022}$

M.Tech full time (2 years)

Sem	Subject 1	Subject 2	Subject 3	Subject 4	Subject 5	Subject 6	L	Т	Р	Weekly Contact Hours	Credits
I	ECL505 Adv. Digital Communication 3-0-2(4)	ECL523 Digital VLSI Design 3-0-2(4)	Program Elective-1 3-0-2(4)	Program Elective-2 3-0-2 (4)	ECC509 Seminar 0-0-4(2)	ECS501 Community Service	12	0	12	24	18
II	ECL501 Digital Signal Processing 3-0-2(4)	ECL513 Machine Learning 2-0-2(3)	Program Elective-3 3-0-2(4)	Program Elective-4 3-0-2(4)	ECD512 Minor Project 0-0- 10(5)	ECS502 Community Service (140 hours = 2 credit)*	11	0	18	19	22
III	MAL616 Research Methodology 2-1-0(3)	Open Elective 2-0-2(3)	ECD605 Dissertation-I 0-0-12(6)	Program Elective-5 3-0-2(4)		ECS601 Community Service	7	1	16	12	16
IV	ECD602 Dissertation-II 0-0-24(12)					ECS602 Community Service (140 hours = 2 credit)*	0	0	24	-	14
TOTAL CREDITS OF THE M.TECH DEGREE PROGRAMME = 70										70	

^{*}Students can utilize the summer/winter break period to complete the 140 Community Service hours every year

M. Tech in Electronics and Communication Engineering

(With specialization in Communication Engineering / VLSI Design) 2022

PG Diploma with 1 year exit

Sem	Subject 1	Subject 2	Subject 3	Subject 4	Subject 5	Subject 6	L	Т	P	Weekly Contact Hours	Credits
I	ECL505 Adv. Digital Communication 3-0-2(4)	ECL523 Digital VLSI Design 3-0-2(4)	Program Elective-1 3-0-2(4)	Program Elective-2 3-0-2 (4)	ECC509 Seminar 0-0-4(2)	ECS501 Community Service	12	0	12	24	18
II	ECL501 Digital Signal Processing 3-0-2(4)	ECL513 Machine Learning 2-0-2(3)	Program Elective-3 3-0-2(4)	Program Elective-4 3-0-2(4)	ECD512 Minor Project 0-0-10(5)	ECS502 Community Service (140 hours = 2 credit)*	11	0	18	19	22
Summer	ECV502 Skill based course (3)	ECT502 Industrial Internship (7)									10
EXIT OPTION: PG DIPLOMA; CREDITS = 50										50	

^{*}Students can utilize the summer/winter break period to complete the 140 Community Service hours in a year

M.Tech in Electronics and Communication Engineering

(With specialization in Communication Engineering / VLSI Design) 2022

M.Tech Part time (3 years)

Sem	Subject 1	Subject 2	Subject 3	Subject 4	Subject 5	L	T	P	Weekly Contact Hours	Credits
I	ECL505 Adv. Digital Communication 3-0-2(4)	ECL523 Digital VLSI Design 3-0-2(4)	Program Elective-1 3-0-2(4)		ECS501 Community Service	9	0	6	15	12
II	ECL501 Digital Signal Processing 3-0-2(4)	ECL513 Machine Learning 2-0-2(3)	Program Elective-2 3-0-2 (4)	ECC509 Seminar 0-0-4(2)	ECS502 Community Service (140 hours = 2 credit)*	8	0	10	18	15
III	Program Elective-3 3-0-2(4)	Open Elective 2-0-2(3)	MAL616 Research Methodology 2-1-0(3)		ECS601 Community Service	7	1	4	12	10
IV	Program Elective-4 3-0-2(4)	ECD512 Minor Project 0-0-10(5)			ECS602 Community Service (140 hours = 2 credit)*	3	0	12	5	11
V	Program Elective-5 3-0-2(4)	ECD605 Dissertation-I 0-0-12(6)				3	0	14	5	10
VI	ECD602 Dissertation-II 0-0-24(12)					0	0	24	-	12
	1	TOTAL CRED	ITS OF THE M.T	ECH DEGREI	PROGRAMME = 70)				70

^{*}Students can utilize the summer/winter break period to complete the 140 Community Service hours every year

M. Tech in Electronics and Communication Engineering (With specialization in Communication Engineering / VLSI Design) 2022

			Progr	am Core)					
Adv. Digital Communication Digita			VLSI Design		Digital Signal Processing					
Machine Learning		Researc	ch Methodology		Seminar					
Minor Project		Disserta	ation- I		Dissertation-	II				
			Progran	n Electiv	res					
TRAC	CK I: Communi	cation E	ngineering	TRACK II: VLSI Design						
ECL506 Optical ECL502 Digital Communication Processing		Image	ECL621 Statistical Signal Processing	ECL525 Semiconductor device modeling and Technology		ECL530 Computer Aided VLSI Design	ECL631 Design of VLSI systems			
ECL517 Information Theory and Coding	ECL504 Modern Telecom Switching		ECL623 Telecom Network Management	ECL527 Digital System Design with Verilog HDL		ECL538 Hardware Software CoDesign	ECL633 Mixed Signal Design			
ECL535 Microwave Theory and Circuits					esign and of Computer ure	ECL540 Real Time Systems and Software	ECL635 Microwave and Optoelectronic Devices			
ECL537 Detection and Estimation Theory	Estimation Wave Integrated		ECL653 Telecom Systems and Technologies	ECL536 VLSI Fabrication and Technology		ECL542 Designing with ASICs	ECL637 VLSI Test and Testability			
ECL539 Speech Communication	•		ECL655 Access Networks	ECL532 Embedded System Design		ECL528 Analog VLSI Design	ECL524 Low Power VLSI Design			
ECL532 Embedded System Design			ECL657 Wireless Sensor Networks	ECL542 Special Topics in VLSI Design		ECL570 Internet of Things	ECL625 ASIC Design and Verification with SV			
ECL516 Special Topics in Electronics and Communication	Electronics Communication		ECL659 Global Navigation Satellite Systems and Applications	ECL534 CMOS RF Circuit Design		ECL629 Cryptography and Crypto Chip Design	ECL627 MEMS			
CCL564 Soft ECL576 Network ECL60 Computing Security CCL640 Satellite Communication		ECL601 Cloud Computing	ECL582 Data structures & algorithms using C++		ECL529 Linux & Scripting	ECL601 Cloud Computing				