



Lokmanya Tilak Jankalyan Shikshan Sanstha's
PRIYADARSHINI COLLEGE OF ENGINEERING
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Department of Electronics & Communication Engineering

SCHEME OF EXAMINATION w.e.f. 2023-24 onwards

FIRST SEMESTER B. TECH. (CSE/CT/IT/AI & DS/ IIOT/RAI/ET/EC)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks	ESE
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	23UFY1A1T	BSC	ASH	Basic calculus & differential equations	3	1	0	4	40	60	--	--	100	3hrs
2	23UFY1B2T	BSC	ASH	Engg. Chemistry	3	0	0	3	40	60			100	3hrs
3	23UFY1B2P	BSC	ASH	Lab: Engg. Chemistry	0	0	2	1	--	--	25	25	50	3hrs
4	23UFY1B3T	ESC	CT	Programming for Problem Solving	3	0	0	3	40	60			100	
5	23UFY1B3P	ESC	CT	Lab: Programming for Problem Solving	0	0	2	1	--	--	25	25	50	
6	23UFY1B4T	ESC	EE	Basics of Electrical & Electronics Engg	3	0	0	3	40	60			100	3hrs
7	23UFY1B4P	ESC	EE	Lab: Basics of Electrical & Electronics Engg	0	0	2	1	--	--	25	25	50	
8	23UFY1B5T	IKS	ASH	Indian Traditional knowledge	2	0	-	2	20	30	--	--	50	2hrs
9	23UFY1B6P	SEC1	ASH	Skill Enhancement in Instrumental Techniques	0	1	2	2	--	--	25	25	50	
10	23UFY111P	CC1	ASH	Liberal Learning Course: Yoga-1	--	--	--	2	--	--	50	--	50	
	23UFY112P			Liberal Learning Course: Physical Education-1										
	23UFY113P			Liberal Learning Course: Music-1										
	23UFY114P			Liberal Learning Course: NSS-1										
					14	2	8	22	180	270	150	100	700	



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SCHEME OF EXAMINATION w.e.f. 2023-24 onwards
SECOND SEMESTER B. TECH. (CSE/CT/IT/AI & DS/ IIOT/RAI/ET/EC)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks	ESE
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	23UFY2B1T	BSC	ASH	Integral Vector Calculus & Statistics	3	1	0	4	40	60	--	--	100	3hrs
2	23UFY2B2T	BSC	ASH	Engg. Physics	3	0	0	3	40	60			100	3hrs
3	23UFY2B2P	BSC	ASH	Lab: Engg. Physics	0	0	2	1			25	25	50	
4	23UFY2B3T	ESC	ET	Digital Circuits & Logic Design	3	0	0	3	40	60			100	3hrs
5	23UFY2B3P	ESC	ET	Lab: Digital Circuits & Logic Design	0	0	2	1			25	25	50	
6	23UFY2B4T	ESC	ME	Computer Aided Graphics	1	0	0	1	20	30			50	2hrs
7	23UFY2B4P	ESC	ME	Lab: Computer Aided Graphics	0	0	2	1			25	25	50	
8	23UFY225T	PCC	IT	Basic of Computation	2	0	0	2	20	30			50	2hrs
	AI&DS		Elements of Artificial Intelligence	2	0	0	2	20	30			50	2hrs	
	EC		Electronics Components and Microprocessor	2	0	0	2	20	30			50	2hrs	
9	23UFY2B6T	AEC	ASH	Communication Skill	1	0	0	1	20	30			50	
10	23UFY2B6P	AEC	ASH	Lab: Communication Skill	0	0	2	1			25	25	50	
11	23UFY2B7P	SEC2	ASH	Skill Enhancement in Analytical Techniques	0	1	2	2	--	--	25	25	50	
12	23UFY211P	CC1	ASH	Liberal Learning Course: Yoga-2	--	--	--	2	--	--	50	--	50	
	Liberal Learning Course: Physical Education-2													
	Liberal Learning Course: Music-2													
	Liberal Learning Course: NSS-2													
					13	2	10	22	180	270	175	125	750	



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SCHEME OF EXAMINATION (w.e.f. 2023-24 onwards)
THIRD SEMESTER B. TECH (Electronics & Communication Engineering)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks	ESE
									Theory		Practical			
					L	T	P	Credit	CE	ESE	CE	ESE		
1	24UEC301T	PCC	EC	Electronic Devices & Circuits	3	1	0	4	40	60			100	3hrs
2	24UEC301P	PCC	EC	Lab: Electronic Devices & Circuits	0	0	2	1			25	25	50	2hrs
3	24UEC302T	PCC	EC	¹ Data Structures	2	0	0	2	20	30			50	2hrs
4	24UEC302P	PCC	EC	Lab: ² Data Structures	0	0	2	1			25	25	50	2hrs
5	24UEC303T	PCC	EC	Network Theory & Analysis	3	0	0	3	40	60	--	--	100	3hrs
6	24UEC304P	PCC	EC	Lab: Electronics Workshop-I	0	0	2	1			25	25	50	2hrs
7	24UEC305P	PCC	EC	Lab: Software Simulation	0	0	2	1			25	25	50	2hrs
8	24UEC3XX	OE	EC	Open Elective-I	3	0	0	3	40	60			100	3hrs
9	24UBS307T	VEC	ASH	Universal Human Values	2	0	0	2	20	30			50	2hrs
10	24UBS309T	MDM	ASH	MDM-I	2	0	0	2	20	30			50	2hrs
11	24UEC310P	ELC	EC	Field Project/Community Engagement Project	0	0	4	2			25	25	50	2hrs
					15	1	12	22	180	270	125	125	700	

^{1,2} Using Python

Open Elective-I		MDM-I	
Course Code	Subject	Course Code	Subject
24UOE339T	Consumer Electronics	24UBS309T	Probability Theory and Stochastic Processes
24UOE340T	Industrial Electronics		
24UOE341T	Sensors and Systems		



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SCHEME OF EXAMINATION (w.e.f. 2023-24 onwards)
FOURTH SEMESTER B. TECH (Eelectronics & Ccommunication Engineering)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks	ESE Duration
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	24UEC401T	PCC	EC	Analog Circuits	3	0	0	3	40	60			100	3hrs
2	24UEC401P	PCC	EC	Lab: Analog Circuits	0	0	2	1			25	25	50	2hrs
3	24UEC402T	PCC	EC	Analog & Digital Communication	3	1	0	4	40	60			100	3hrs
4	24UEC402P	PCC	EC	Lab: Analog & Digital Communication	0	0	2	1			25	25	50	2hrs
5	24UEC403T	PCC	EC	Signals & Systems	3	0	0	3	40	60			100	3hrs
6	24UEC404P	PCC	EC	Lab: IoT Tools	0	0	2	1			25	25	50	2hrs
7	24UCT407P/ 24UCV404T	MDM	CT/ CV	MDM-II	0	1	2	2			25	25	50	2hrs
					2	0	0	2	20	30			50	2hrs
8	24UOE4XXT	OE	EC	Open Elective-II	2	0	0	2	20	30			50	2hrs
9	24UBS407T	AEC	ASH	Professional Communication	2	0	0	2	20	30			50	2hrs
10	24UBS410T	VEC	ASH	Environmental Science	2	0	0	2	20	30			50	2hrs
					15	2	8	21	180	270	100	100	650	
Open Elective-II				MDM-II										
Course Code		Subject		Course Code		Subject								
24UOE441T		Mechatronics		24UCT407P		Object Oriented Programming								
24UOE442T		Internet of Things		24UCV404T		Introduction to Green Technology and Sustainable Development.								
24UOE443T		Industrial Applications of Raspberry Pi												



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SCHEME OF EXAMINATION (w.e.f. 2023-24 onwards)
FIFTH SEMESTER B. TECH (Electronics & Communication Engineering)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks	ESE Duration
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	25UEC501T	PCC	EC	Microcontrollers & Interfacing	3	1	0	4	40	60			100	3hrs
2	25UEC501P	PCC	EC	Lab: Microcontrollers & Interfacing	0	0	2	1			25	25	50	2hrs
3	25UEC502T	PCC	EC	Electromagnetic Waves	3	1	0	4	40	60			100	3hrs
4	25UEC502P	PCC	EC	Lab: PCB Design & Prototyping	0	0	2	1			25	25	50	2hrs
5	25UEC5XXT	PEC	EC	Program Elective – I	2	0	0	2	20	30			50	2hrs
6	25UCT504T	MDM	CT/CV	MDM-III	3	0	0	3	40	60			100	3hrs
7	25UCT504P	MDM	CT/CV	Lab: MDM-III	0	0	2	1			25	25	50	2hrs
8	25UOE5XXT	OE	EC	Open Elective-III	2	0	0	2	20	30			50	2hrs
9	25UEC503P	VSC	EC	VSC-I (Embedded C Programming)	0	1	2	2			25	25	50	2hrs
10	25UBS505T	HSSM	ASH	Business Management and Entrepreneurship	3	0	0	3	40	60			100	3hrs
					16	3	08	23	200	300	100	100	700	
Open Elective-III				Program Elective-I				MDM-III						
Course Code		Subject		Course Code		Subject		Course Code		Subject				
25UOE538T		Biomedical Engineering		25UEC521T		Measurement and Instrumentation		25UCT504T		Computer Networks				
25UOE539T		Soft Computing		25UEC522T		Information Theory and Coding		25UCT504P		Lab: Computer Networks				
25UOE540T		Introduction to 5G Technology		25UEC523T		Computer Architecture		25UCV506T		Green Materials				
				25UEC524T		Introduction to Emerging Technologies		25UCV506P		Lab: Green Materials Testing Laboratory				



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SCHEME OF EXAMINATION (w.e.f. 2023-24 onwards)
SIXTH SEMESTER B. TECH (Electronics & Communication Engineering)

Sr. No	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks	ESE Duration
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	25UEC601T	PCC	EC	Control Systems	3	0	0	3	40	60			100	3hrs
2	25UEC602T	PCC	EC	Digital Signal processing	3	1	0	4	40	60			100	3hrs
3	25UEC602P	PCC	EC	Lab: Digital Signal processing	0	0	2	1			25	25	50	2hrs
4	25UEC603T	PCC	EC	Digital Design with HDL	3	0	0	3	40	60			100	3hrs
5	25UEC603P	PCC	EC	Lab: Digital Design with HDL	0	0	2	1			25	25	50	2hrs
6	25UEC6XXT	PEC	EC	Program Elective II	3	0	0	3	40	60			100	3hrs
7	25UEC6XXP	PEC	EC	Lab: Program Elective II	0	0	2	1			25	25	50	2hrs
8	25UEC6XXT	PEC	EC	Program Elective III	3	0	0	3	40	60			100	3hrs
9	25UEC6XXP	PEC	EC	Lab: Program Elective III	0	0	2	1			25	25	50	2hrs
10	25UEC604P	MDM	EC	MDM-IV	0	0	4	2			100		100	2hrs
11	25UEC605P	VSC	EC	VSC-II (Python Programming for Raspberry -Pi)	0	1	2	2			25	25	50	2hrs
					15	2	14	24	200	300	225	125	850	

Program Elective-II		Program Elective-III		MDM-IV	
Course Code	Subject	Course Code	Subject	Course Code	Subject
25UEC621T	Operating System	25UEC631T	Wireless Sensor Networks	25UEC604P	Employability Enhancement Skills
25UEC621P	Lab: Operating System	25UEC631P	Lab: Wireless Sensor Networks		
25UEC622T	Antennas & Wave Propagation	25UEC632T	RF & Microwave Engineering		
25UEC622P	Lab: Antennas & Wave Propagation	25UEC632P	Lab: RF & Microwave Engineering		



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25UEC623T	PLC and SCADA	25UEC633T	Web Technology
25UEC623P	Lab: PLC and SCADA	25UEC633P	Lab: Web Technology
25UEC624T	Machine Learning	25UEC634T	Data Analytic & Data Science
25UEC624P	Lab: Machine Learning	25UEC634P	Lab: Data Analytic & Data Science



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SCHEME OF EXAMINATION (w.e.f. 2023-24 onwards)
SEVENTH SEMESTER B. TECH (Electronics & Communication Engineering)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks	ESE Duration
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	26UEC701T	PCC	EC	Embedded Systems	3	1	0	4	40	60			100	3hrs
2	26UEC701P	PCC	EC	Lab: Embedded systems	0	0	2	1			25	25	50	2hrs
3	26UEC7XXT	PEC	EC	Program Elective IV	3	0	0	3	40	60			100	3hrs
4	26UCT706X/ 26UCV705T	MDM	CT/ CV	MDM-V	2	1	0	3	20	30			50	2hrs
5	26UCT706P	MDM	CT	Lab: MDM-V	0	0	2	1			25	25	50	2hrs
6	26UEC702T	ELC	EC	Research Methodology (MOOC Course-Optional)	2	0	0	2	20	30			50	2hrs
7	26UEC703P	ELC	EC	Project	0	0	8	4			50	50	100	3hrs
					11	1	12	18	120	180	100	100	500	

Program Elective IV		MDM-V	
Course Code	Subject	Course Code	Subject
26UEC721T	Digital Image Processing	26UCT706T	Database Management Systems
26UEC722T	Software Defined Radio and Cognitive Radio	26UCT706P	Lab: Database Management Systems
26UEC723T	VLSI Design	26UCV705T	E-Waste Management
26UEC724T	Cyber Security	26UCV705P	E-Waste Management Case Studies



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SCHEME OF EXAMINATION (w.e.f. 2023-24 onwards)
EIGHTH SEMESTER B. TECH (Electronics & Communication Engineering)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks	ESE Duration
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	26UEC8XXT	PEC	EC	Program Elective V (Online/MOOC)	3	0	0	3	40	60			100	3hrs
2	26UEC8XXT	PEC	EC	Program Elective VI (Online/MOOC)	3	0	0	3	40	60			100	3hrs
5	26UEC801P	ELC	EC	Internship / In house Project	0	0	24	12			150	150	300	-
					6	0	24	18	80	120	150	150	500	

Program Elective V		Program Elective VI	
Course Code	Subject	Course Code	Subject
26UEC821T	Mobile Communication	26UEC831T	Robotics & Automation
26UEC822T	Fiber Optics Communication	26UEC832T	Satellite Communication
26UEC823T	Next Generation Communication	26UEC833T	VLSI Signal Processing
26UEC824T	Computer Vision	26UEC834T	Natural Language Processing



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Semester-wise Credit distribution structure for Four Year B. Tech Program
Program: Electronics & Communication Engineering

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	8	8	-	-	-	-	-	-	16
Engineering Science Course		8	6	-	-	-	-	-	-	14
Program Core Course (PCC)	Program Courses	-	2	13	13	10	12	5	-	55
Program Elective Course (PEC)		-	-	-	-	2	8	3	6	19
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	-	-	2	2	4	2	3	-	13
Open Elective (OE) Other than a particular program		-	-	3	2	2	-	-	-	7
Vocational and Skill Enhancement Course (VSEC)	Skill Courses	2	2	-	-	2	2	-	-	8
Ability Enhancement Course (AEC-01, AEC-02)	Humanities Social Science and Management (HSSM)	-	2	-	2	-	-	-	-	4
Entrepreneurship/Economics/Management Courses)		-	-	-	-	3	-	-	-	3
Indian Knowledge System (IKS)		2	-	-	-	-	-	-	-	2
Value Education Course (VEC)	Experiential Learning Courses	-	-	2	2	-	-	-	-	4
Research Methodology		-	-	-	-	-	-	3	-	3
Comm. Engg. Project (CEP)/Field Project (FP)		-	-	2	-	-	-	-	-	2
Project								4		4
Internship/OJT									12	12



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Co-curricular(CC)	Liberal Learning Courses	2	2	-	-	-	-	-	-	4
Total Credits		22	22	22	21	23	24	18	18	170



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Multi-Disciplinary Minors (MDM)/Honours Courses

Basket 1: Computer Science Engineering (MDM)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks	ESE Duration
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	24UBS309T	MDM	ASH	MDM-I Probability Theory and Stochastic Processes	2	0	0	2	20	30			50	2hrs
2	24UCT407P		CT	MDM-II: Object Oriented Programming Lab	0	1	2	2			25	25	50	2 Hrs
3	25UCT504T		CT	MDM-III: Computer Networks	3	0	0	3	40	60			100	3hrs
4	25UCT504P		CT	Computer Networks Lab	0	0	2	1			25	25	50	
5	25UBS604P		EC	MDM-IV: Employability Enhancement Skills	0	0	4	2			100		100	
6	26UCT706T		CT	MDM-V: Database Management Systems	2	1	0	3	20	30			50	2hrs
7	26UCT706P		CT	Database Management Systems Lab	0	0	2	1			25	25	50	
					9	1	6	14	100	100	175	75	450	



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Basket2: Green Technology and Sustainability Engineering (MDM)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks	ESE Duration
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	24UBS309T	MDM	ASH	MDM-I: Probability Theory and Stochastic Processes	2	0	0	2	20	30			50	02 Hours
2	24UCV404T		CV	MDM-II: Introduction to Green Technology and Sustainable Development	2	0	0	2	20	30			50	02 Hours
3	25UCV506T		CV	MDM-III: Green Materials	3	0	0	3	40	60			100	03 Hours
4	25UCV506P		CV	Lab: Green Materials Testing Laboratory	0	0	02	1			25	25	50	04 Hours
5	25UEC604P		EC	MDM-IV: Employability Enhancement Skills	0	0	4	2			100		100	04 Hours
6	26UCV705T		CV	MDM-V: e-waste Management	3	0	0	3	40	60			100	03 Hours
7	26UCV705P		CV	e-waste Management Case Studies	0	0	2	1			50		50	02 Hours
				Total		10	0	8	14	120	180	175	25	500



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Basket 1: Artificial Intelligence and Machine Learning (Honours)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks	ESE Duration
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	24UHSEC4T	Honors	EC	Introduction to Artificial Intelligence	3	0	0	3	40	60			100	3hrs
2	24UHSEC4P		EC	Lab: Introduction to Artificial Intelligence	0	0	2	1			25	25	50	2hrs
3	25UHSEC5T		EC	Artificial Intelligence- Knowledge Representation and Reasoning	3	1	0	4	40	60			100	3hrs
4	25UHSEC6T		EC	Machine Learning & Deep Learning	3	0	0	3	40	60			100	3hrs
5	25UHSEC6P		EC	Lab: Machine Learning & Deep Learning	0	0	2	1			25	25	50	2hrs
6	26UHSEC7T		EC	Generative Artificial Intelligence	3	0	0	3	40	60			100	3hrs
7	26UHSEC7P		EC	Dissertation	0	0	2	1			50	50	100	2hrs
						12	1	10	18	160	240	100	100	600



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Basket 2: Robotics and Automation (Honours)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks	ESE Duration
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	24UHSEC4T	Honours	EC	Principles of Robotics	3	0	0	3	40	60			100	2hrs
2	24UHSEC4P			Lab: Principles of Robotics	0	0	2	1			25	25	50	2hrs
3	25UHSEC5T			Motors and Drives Interfacing	3	1	0	4	40	60			100	2hrs
4	25UHSEC6T			AI in Robotics	3	0	0	3	40	60			100	2hrs
5	25UHSEC6P			Lab: AI in Robotics	0	0	2	1			25	25	50	2hrs
6	26UHSEC7T			Robotics: Kinematics & Dynamics	3	0	0	3	40	60			100	3hrs
7	26UHSEC8T			Dissertation	0	0	6	3			50	50	100	2hrs
							12	1	10	18	160	240	100	100