

	Lokmanya Tilak Jankalyan Shikshan Sanstha's PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR Harpur Nagar, Umred Road, Nagpur- 440024 An Autonomous Institution Affiliated to R.T.M. Nagpur University, Nagpur Accredited with Grade 'A' by NAAC E-mail: principalpbcoe@gmail.com Website: www.pbcoe.edu.in	
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Scheme of Teaching, Examination & Evaluation

(A Four-Year Degree Programme)

Scheme: BTECHETC-24/NEP-R0

B. Tech. V Semester Electronics and Telecommunication Engineering

Sr. No.	Category	Course Code	Course Name	Hours/Week			Credits	Maximum Marks			Min. Passing Marks			ESE Duration (Hrs.)
				L	T/A	P		Continuous Evaluation	End Sem Exam	Total	Continuous Evaluation	End Sem Exam	Total	
1	PCC	ET501T	Embedded Systems	3	0	0	3	40	60	100	---	15	45	3
2	PCC	ET501P	Embedded Systems Lab	0	0	2	1	25	25	50	---	---	25	---
3	PCC	ET502T	Communication Electronics	3	0	0	3	40	60	100	---	15	45	3
4	PCC	ET502P	Communication Electronics Lab	0	0	2	1	25	25	50	---	---	25	---
5	PCC	ET505T	Signals and Systems	2	0	0	2	20	30	50	---	8	23	2
6	PEC	ET506T	Program Elective-I Refer Program Elective Basket	3	0	0	3	40	60	100	---	15	45	3
7	PEC	ET506P	Program Elective-I Lab Refer Program Elective Basket	0	0	2	1	25	25	50	---	---	25	---
8	MDM	ET503T	Fundamentals of Programmable System	3	0	0	3	40	60	100	---	15	45	3
9	MDM	ET503P	Fundamentals of Programmable System Lab	0	0	2	1	25	25	50	---	---	25	---
10	OE	ET504T	Open Elective -III	2	0	0	2	20	30	50	---	8	23	2
Total =				16	0	8	20			700				

NOTE: - 1. Refer Annexure - I for MDM Courses - CSE / AI / CE / EE

Abbreviations: - PCC - Program Core Course, PEC- Program Elective Course, MDM - Multidisciplinary Minor, OE- Open Elective, MNC - Mandatory Course

Program Elective Course -1			
Sr. No.	Category	Course Code	Course Name
1	PEC-1	ET506-1T	Digital System Design using VHDL
		ET506-1P	Digital System Design using VHDL Lab
2		ET506-2T	Microwave Engineering
		ET506-2P	Microwave Engineering Lab

Open Elective -III			
Sr. No.	Category	Course Code	Course Name
1	OE-III	ET504T	Robotics and Automation

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Scheme of Teaching, Examination & Evaluation
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B. Tech. VI Semester Electronics and Telecommunication Engineering,

Sr. No.	Category	Course Code	Course Name	Hours/Week			Credits	Maximum Marks			Min. Passing Marks			ESE Duration (Hrs.)
				L	T/A	P		Continuous Evaluation	End Sem Exam	Total	Continuous Evaluation	End Sem Exam	Total	
1	PCC	ET601T	Digital Signal Processing	3	0	0	3	40	60	100	---	15	45	3
2	PCC	ET601P	Digital Signal Processing Lab	0	0	2	1	25	25	50	---	---	25	---
3	PCC	ET602T	Internet of Things	3	0	0	3	40	60	100	---	15	45	3
4	PCC	ET602P	Internet of Things Lab	0	0	2	1	25	25	50	---	---	25	---
5	PCC	ET604T	Antenna and Wave Propagation	3	0	0	3	40	60	100	---	15	45	3
6	PEC	ET605T	Program Elective-2 Refer Program Elective Basket	3	0	0	3	40	60	100	---	15	45	3
7	PEC	ET605P	Program Elective-2 Lab Refer Program Elective Basket	0	0	2	1	25	25	50	---	---	25	---
8	PEC	ET606T	Program Elective-3 Refer Program Elective Basket	3	0	0	3	40	60	100	---	15	45	3
9	MDM	ET603T	Basics of Communication Systems	2	0	0	2	20	30	50	---	8	23	2
10	VSEC	ET607P	Object Oriented Programming and Data Structure Lab	0	0	4	2	50	50	100	---	---	50	---
Total =				17	0	10	22			800				

NOTE: - 1. Refer Annexure - I for MDM Courses - CSE / AI / CE / EE

Abbreviations: - PCC - Program Core Course, PEC- Program Elective Course, MDM - Multidisciplinary Minor, OE- Open Elective, MNC - Mandatory Course

Program Elective Course -2			
Sr. No.	Category	Course Code	Course Name
1	PEC-2	ET605-1T	Computer Communication Networks
		ET605-1P	Computer Communication Networks Lab
2		ET605-2T	CMOS VLSI Design
		ET605-2P	CMOS VLSI Design Lab

Program Elective Course -3			
Sr. No.	Category	Course Code	Course Name
1	PEC-3	ET606-1T	Satellite Communication
2		ET606-2T	Information Theory and Error correction code

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Scheme: BTECHETC-24/NEP-R0

B. Tech. VII Semester Electronics and Telecommunication Engineering,

Sr. No.	Category	Course Code	Course Name	Hours/Week			Credits	Maximum Marks			Min. Passing Marks			ESE Duration (Hrs.)
				L	T/A	P		Continuous Evaluation	End Sem Exam	Total	Continuous Evaluation	End Sem Exam	Total	
1	PCC	ET701T	Digital Image Processing	3	0	0	3	40	60	100	---	15	45	4
2	PCC	ET701P	Digital Image Processing Lab	0	0	2	1	25	25	50	---	25	25	..
3	PEC	ET702T	Program Elective-4 Refer Program Elective Basket	2	0	0	2	20	30	50	---	8	23	2
4	MDM	ET703T	Sensors and System	2	0	0	2	20	30	50	---	8	23	2
5	OJT	ET704P	Internship Evaluation	0	0	24	12	200	200	400	---	---	200	---
Total =				7	0	26	20			650				

NOTE: - 1. Refer Annexure - I for MDM Courses - CSE / AI / CE / EE

Abbreviations: - PCC - Programme Core Course, PEC- Programme Elective Course, MDM - Multidisciplinary Minor, OJT- On Job Training / Internship / Apprenticeship, MNC - Mandatory Course

Program Elective Course -4			
Sr. No.	Category	Course Code	Course Name
1	PEC -4	ET702-1T	Optical Communication
2		ET702-2T	Wireless Sensor Network

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B. Tech. VIII Semester Electronics and Telecommunication Engineering,

Sr. No.	Category	Course Code	Course Name	Hours/Week			Credits	Maximum Marks			Min. Passing Marks			ESE Duration (Hrs.)
				L	T/A	P		Continuous Evaluation	End Sem Exam	Total	Continuous Evaluation	End Sem Exam	Total	
1	PCC	ET801T	Artificial Intelligence and Machine Learning	3	0	0	3	40	60	100	---	15	45	3
2	PCC	ET802T	Biomedical Engineering	3	0	0	3	40	60	100	---	15	45	3
3	PEC	ET804T	Program Elective-5 Refer Program Elective Basket	3	0	0	3	40	60	100	---	15	45	3
4	PEC	ET805T	Program Elective-6 Refer Program Elective Basket	3	0	0	3	40	60	100	---	15	45	3
5	MDM	ET803T	IoT Fundamentals	2	0	0	2	20	30	50	---	8	23	2
6	RM	CE806T	Research Methodology	3	0	0	3	40	60	100	---	15	45	3
7	RM	CE806P	Research Methodology Lab	0	0	2	1	25	25	50	---	---	25	---
8	Project	ET807P	Project	0	0	8	4	100	100	200			100	
Total =				17	0	10	22			800				

Note: Refer Annexure-I for MDM Courses – CSE/ AI/ CE/ EE

Abbreviations: PCC - Programme Core Course, PEC- Programme Elective Course; MDM - Multidisciplinary Minor, RM - Research Methodology

Program Elective Course - 5			
Sr. No.	Category	Course Code	Course Name
1	PEC -5	ET804-1T	DATA COMPRESSION & ENCRYPTION
2	PEC -5	ET804-2T	SWITCHING THEORY AND FINITE AUTOMATA

Program Elective Course - 6			
Sr. No.	Category	Course Code	Course Name
1	PEC -6	ET805-1T	ROBOTICS AND AUTOMATION
2	PEC -6	ET805-2T	WIRELESS AND MOBILE COMMUNICATION