



S. B. JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NAGPUR

(An Autonomous Institute, Affiliated to R.T.M. Nagpur University)

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

Vision: Emerge as a center for quality education in Electronics & Telecommunication Engineering, so as to create competent professionals



**CURRICULUM SCHEME
FOR
B.TECH. ELECTRONICS AND TELECOMMUNICATION
ENGINEERING
(W.E.F. 2022-23)**

2nd YEAR

SEMESTER-III

Scheme of Teaching & Examination of Bachelor of Technology III Semester B.Tech. (Electronics and Telecommunication Engineering)										
Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs)
1	BSCET301T	Engineering Mathematics-III	3	1	0	4	40	60	100	3
2	PCCET301T	Electronic Devices & Circuits	3	1	0	4	40	60	100	3
3	PCCET301P	Electronic Devices & Circuits Lab	0	0	2	1	25	25	50	-
4	PCCET302T	Digital Electronics	3	1	0	4	40	60	100	3
5	PCCET302P	Digital Electronics Lab	0	0	2	1	25	25	50	-
6	PCCET303T	Network Theory	3	1	0	4	40	60	100	3
7	PCCET304T	Object Oriented Programming and Data Structures	3	0	0	3	40	60	100	3
8	PCCET304P	Object Oriented Programming and Data Structure Lab	0	0	2	1	25	25	50	-
9	PROJET301	Practice School-I (Internship of 1-2 weeks)	-	-	-	1	During Summer Vacations after II Semester			
		TOTAL	15	4	6	23	275	375	650	



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2nd YEAR

SEMESTER-IV

Scheme of Teaching & Examination of Bachelor of Technology IV Semester B.Tech. (Electronics and Telecommunication Engineering)										
Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs)
1	BSCET401T	Engineering Mathematics-IV	3	1	0	4	40	60	100	3
2	PCCET401T	Electromagnetic Fields	3	1	0	4	40	60	100	3
3	PCCET402T	Signal Processing	3	1	0	4	40	60	100	3
4	PCCET402P	Signal Processing Lab	0	0	2	1	25	25	50	-
5	PCCET403T	Python Programming	3	0	0	3	40	60	100	3
6	PCCET403P	Python Programming Lab	0	0	2	1	25	25	50	-
7	HSMCET401P	Soft Skills-I	0	0	2	1	25	25	50	-
8	OEC	Open Elective-I	3	0	0	3	40	60	100	3
9	MCET401	Essence of Indian Traditional Knowledge	2	0	0	0	50	-	50	-
		TOTAL	17	3	6	21	325	375	700	

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3rd YEAR

SEMESTER-V

Scheme of Teaching & Examination of Bachelor of Technology V Semester B.Tech. (Electronics and Telecommunication Engineering)										
Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs)
1	PCCET501P	JAVA Programming Lab	0	0	4	2	25	25	50	-
2	PEC	Program Elective-I	3	0	0	3	40	60	100	3
3	PCCET502T	Microprocessor and Microcontroller	3	1	0	4	40	60	100	3
4	PCCET502P	Microprocessor and Microcontroller Lab	0	0	2	1	25	25	50	-
5	PCCET503T	Analog Communication	3	1	0	4	40	60	100	3
6	PCCET503P	Analog Communication Lab	0	0	2	1	25	25	50	-
7	HSMCET501T	Economics and Finance for Engineers	2	0	0	2	20	30	50	2
8	OEC	Open Elective-II	3	0	0	3	40	60	100	3
9	HSMCET502P	Soft Skills-II	0	0	2	1	25	25	50	-
10	PROJET501	Practice School-II (Internship of 2-3 weeks)	-	-	-	1	During Summer Vacations after IV Semester			
11	PROJET502	Mini Project	0	0	4	2	25	25	50	-
		TOTAL	14	2	14	24	305	395	700	

Program Elective-I

Sr. No.	Course Code	Course Title
1	PECET501T	CMOS-VLSI
2	PECET502T	Fuzzy Logic and Neural Network
3	PECET503T	Digital Image Processing



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3rd YEAR

SEMESTER-VI

Scheme of Teaching & Examination of Bachelor of Technology VI Semester B.Tech. (Electronics and Telecommunication Engineering)										
Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs)
1	PCCET601T	Digital Communication	3	1	0	4	40	60	100	3
2	PCCET602T	Control System Engineering	3	1	0	4	40	60	100	3
3	PCCET603T	Computer Communication Networks	3	0	0	3	40	60	100	3
4	PCCET603P	Computer Communication Networks Lab	0	0	2	1	25	25	50	-
5	PCCET604T	Digital System Design	3	0	0	3	40	60	100	3
6	PCCET604P	Digital System Design Lab	0	0	2	1	25	25	50	-
7	PCCET605P	Software Workshop Lab	0	0	4	2	25	25	50	-
8	HSMCET601P	Soft Skills-III	0	0	2	1	25	25	50	-
9	PEC	Program Elective-II	3	0	0	3	40	60	100	3
10	OEC	Open Elective-III	3	0	0	3	40	60	100	3
		TOTAL	18	2	10	25	340	460	800	

Program Elective-II

Sr. No.	Course Code	Course Title
1	PECET601T	VLSI Signal Processing
2	PECET602T	Embedded Systems & RTOS
3	PECET603T	Data Science



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4th YEAR

SEMESTER-VII

Scheme of Teaching & Examination of Bachelor of Technology VII Semester B.Tech. (Electronics and Telecommunication Engineering)										
Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs)
1	PEC	Program Elective-III	3	0	0	3	40	60	100	3
2	PEC	Program Elective-IV	3	0	0	3	40	60	100	3
3	PEC	Program Elective-V	3	0	0	3	40	60	100	3
4	PEC	Program Elective-VI	3	0	0	3	40	60	100	3
5	PROJET701	Project-I	0	0	12	6	75	75	150	-
6	OEC	Open Elective-IV	3	0	0	3	40	60	100	3
		TOTAL	15	0	12	21	275	375	650	

Program Elective-III

Sr. No.	Course Code	Course Title
1	PECET701T	VLSI Testing
2	PECET702T	Data Encryption and Decryption
3	PECET703T	Robotics

Program Elective-IV

Sr. No.	Course Code	Course Title
1	PECET704T	Electronic System Design
2	PECET705T	Bio- Medical Electronics
3	PECET706T	Antennas and Wave Propagation

Program Elective-V

Sr. No.	Course Code	Course Title
1	PECET707T	Micro-Electro Mechanical System (MEMS)
2	PECET708T	Machine Learning
3	PECET709T	Industrial Automation

Program Elective-VI

Sr. No.	Course Code	Course Title
1	PECET710T	Optical Communication
2	PECET711T	Satellite Communication
3	PECET712T	Wireless and Mobile Communication



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4th YEAR

SEMESTER-VIII

Scheme of Teaching & Examination of Bachelor of Technology VIII Semester B.Tech. (Electronics and Telecommunication Engineering)										
Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs)
1	PROJET801	Project-II/Industry Internship	0	0	12	6	75	75	150	-
		TOTAL	0	0	12	6	75	75	150	-