

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



#### **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)

2<sup>nd</sup> YEAR

## **SEMESTER-III**

	CONFRIDE	Ligant Protestating halfs The First	Hours per week			Credits	Maxim	ESE			
Sr. No.	Course Code	Course Title					Continuous	End Sem	Total	Duration	
	ALBREAT .	States Registerance Fall	L	T	P		Evaluation	Exam		(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 Summ	uring Summer Vacations after II Semest			
		TOTAL	15	4	6	23	275	375	650		

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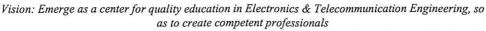
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# 2<sup>nd</sup> YEAR

## **SEMESTER-IV**

Sc	heme of Teaching &	Examination of Bachelor of Technology	ogy IV	Seme	ster B	.Tech. (Ele	ctronics and Tele	communic	ation Eng	ineering)
			Hours per				Maxim	ESE		
Sr. No.	Course Code	Course Title		week		Credits	Continuous	Continuous End Sem Exam	Total	Duration (Hrs)
			L	T	P		Evaluation			
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	e	50	-
		TOTAL	17	3	6	21	325	375	700	

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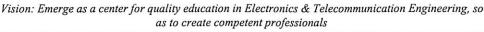
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# $3^{rd}$ YEAR

# **SEMESTER-V**

			Hours per week				Maximum Marks			ESE
Sr. No.	Course Code	Course Title	Hou	rs per	week	Credits	Continuous	End Sem	Total	Duration (Hrs)
		en dan di saman dan dan dan dan dan dan dan dan dan d	L	T	P	TOTAL STATE	Evaluation	Exam		
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 St	ummer Va		after IV
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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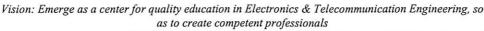
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# 3<sup>rd</sup> YEAR

# **SEMESTER-VI**

	and the second		Hours per			Credits	Maxim	ESE		
Sr. No.	Course Code	Course Title	week		Continuous		End Sem	Total	Duration	
4 4			L	T	P		Evaluation	Exam	1	(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

		1 Togram 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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# 4<sup>th</sup> YEAR

## **SEMESTER-VII**

			Trans	Hours per week			Maxin	ESE		
Sr. No.	Course Code	Course Title	Hou	rs per	week	Credits	Continuous	End Sem	Duratio	
			L	T	P		Evaluation	Exam	Total	(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

Course Code	Course Title
PECET701T	VLSI Testing
PECET702T	Data Encryption and Decryption
PECET703T	Robotics
	PECET701T PECET702T

#### 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 -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-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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# 4<sup>th</sup> YEAR

## **SEMESTER-VIII**

	Course Code	Course Title	Hours per week				Maxin	ESE		
Sr. No.			Hou	rs per	week	Credits	Continuous End Sem Total D			Duration
			L	T	P		Evaluation	Exam	Total	(Hrs)
1	PROJET801	Project-II/Industry Internship	0	0	12	6	75	75	150	-
	93	TOTAL	0	0	12	6	75	75	150	-

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