



SIPNA COLLEGE OF ENGINEERING & TECHNOLOGY, AMRAVATI

**An Autonomous Institute Affiliated to
Sant Gadge Baba Amravati University, Amravati, Maharashtra (India)
(Approved by AICTE, New Delhi and Recognized by DTE, Maharashtra)
(Accredited with 'A+' Grade by NAAC)**

**SoE No.
24BTET-01**

Bachelor of Technology (B.Tech.) Programme Scheme of Examination (SoE)

**Department of Electronics and Telecommunications Engineering
B. Tech. Electronics and Telecommunications Engineering with Multidisciplinary Minor
(Semester Pattern)
Effective from Academic Year 2026-27**

Prepared by: Board of Studies - Electronics and Telecommunications Engineering

Approved by: Academic Council- Sipna COET, Amravati

			30/03/2026	1.2
Chairman Board of Studies	Dean Academics	Chairman Academic Council	Date of Release	Version



Sipna College of Engineering & Technology, Amravati

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SoE No.
24BTET-1.1

Definition of Course Code:

1 st & 2 nd letter (Degree Program)	3 rd & 4 th letter applicable to which students	5 th & 6 th letter (Course category)	7 th & 8 th letter (Sr. no. of Subject)	9 th & 10 th letters Teaching Dept.	11 th letter (Semester)	12 th letter (Theory or Practical)
BT: B. Tech. MT: M. Tech. MB: MBA	AL: All branches CS: Computer Science and Engineering IT: Information Technology ME: Mechanical Engineering ET: Electronics and Telecommunication Engineering CE: Civil Engineering AD: Artificial Intelligence (AI) and Data Science For MDM 'AL' excluding Teaching Department students'	BS: Basic Science ES: Engineering Science VE: Value Education VS: Vocational and Skill Enhancement AE: Ability Enhancement IK: Indian Knowledge System CC: Cocurricular Course MD: Multidisciplinary Minor OE: Open Elective PC: Program Core PE: Program Elective FP: Field Project H: Humanities N: Entrepreneurship E: Economics M: Management II: Industry Internship RI: Research Internship EI: Entrepreneurship Internship RM: Research Methodology PS: Project and Seminar RP: Research Project and seminar MH: Minors & Honors	Sr. no. of course in the particular Course category from 1 st to 8 th semester.	SH: Science and Humanities CS: Computer Science and Engineering IT: Information Technology ME: Mechanical Engineering ET: Electronics and Telecommunication Engineering CE: Civil Engineering AD: Artificial Intelligence (AI) and Data Science	1: First Semester 2: Second Semester 3: Third Semester 4: Fourth Semester 5: Fifth Semester 6: Sixth Semester 7: Seventh Semester 8: Eighth Semester	T: Theory P: Practical

Approved in.....
Academic Council Meeting
Dated:-.....05/7/15.....



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SoE No.
24BTET-1.1

Category-wise Courses Master List

Course Category: Basic Science Course(BSC)

Sr. No.	Course Name	Course Code
01	Engineering Mathematics -I	BTALBS01SH1T
02	Engineering Chemistry	BTALBS02SH1T
03	Engineering Chemistry Lab	BTALBS03SH1P
04	Engineering Mathematics -II	BTALBS04SH2T
05	Engineering Physics	BTETBS05SH2T
06	Engineering Physics Lab	BTETBS06SH2P
07	Engineering Mathematics -III	BTETBS07SH3T

Course Category: Engineering Science Course(ESC)

Sr. No.	Course Name	Course Code
01	Engineering Graphics	BTALES01ME1T
02	Engineering Graphics Lab	BTALES02ME1P
03	Introduction to Digital Electronics	BTETES03ET1T
04	Introduction to Digital Electronics Lab	BTETES04ET1P
05	Basic Electrical Engineering	BTALES05ET2T
06	Basic Electrical Engineering Lab	BTALES06ET2P
07	Programming for Problem Solving	BTALES07IT2T
08	Programming for Problem Solving Lab	BTALES08IT2P
09	Workshop Idea lab /Fab Lab	BTALES09ME2P

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Course Category: Experiential Learning Courses(ELC)

Sr. No.	Course Name	Course Code
01	Comm. Engg. Project/ Field project	BTETFP01ET5P
02	Project and Seminar	BTETPS01ET7P
03	Industry Internship	BTETII01ET8P
04	Research Internship	BTETRI01ET8P
05	Entrepreneurship Internship	BTETEI01ET8P
06	Research Methodology	BTALRM01ET8T

Course Category: Vocational and Skill Enhancement Courses (VSEC)

Sr. No.	Course Name	Course Code
01	Electronic Appliances and Maintenance	BTETVS01ET1P
02	Design Thinking	BTALVS02ET1T
03	PC Maintenance and Troubleshooting	BTETVS03ET2P
04	Arduino & IOT	BTETVS04ET4P
05	Drone Technology	BTETVS05ET6P

Course Category: Humanities & Social Sciences Courses [HSSMC]AEC

Sr. No.	Course Name	Course Code
01	Professional Communication	BTALAE01SH1P
02	Values and Ethics	BTALVE01SH1T
03	Environmental Studies	BTALVE02SH1T
04	Indian Knowledge System	BTALIK01SH2T
05	Economics for Engineers	BTETEM01ET3T
06	Innovation, Creativity & Entrepreneurship	BTETEM02ET4T
07	Regional Language	BTALAE02SH6P

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SoE No.
24BTET-1.1

Category: Programme Core Course (PCC)		
Sr. No.	Course Name	Course Code
01	Sensors and Transducers	BTETPC01ET2T
02	Electronics Devices & Circuits	BTETPC02ET3T
03	Electronics Devices & Circuits Lab	BTETPC03ET3P
04	Digital System Design	BTETPC04ET3T
05	Digital System Design Lab	BTETPC05ET3P
06	Electromagnetic Fields	BTETPC06ET3T
07	Object Oriented Programming Lab	BTETPC07ET3P
08	Analog Circuits	BTETPC08ET4T
09	Analog Circuits Lab	BTETPC09ET4P
10	Analog & Digital Communications	BTETPC10ET4T
11	Analog & Digital Communications Lab	BTETPC11ET4P
12	Signals & Systems	BTETPC12ET4T
13	Network Theory	BTETPC13ET4T
14	Microcontrollers	BTETPC14ET5T
15	Microcontrollers Lab	BTETPC15ET5P
16	Digital Signal Processing	BTETPC16ET5T
17	Digital Signal Processing Lab	BTETPC17ET5P
18	Power Electronics	BTETPC18ET5T
19	Power Electronics Lab	BTETPC19ET5P
20	Embedded System	BTETPC20ET6T
21	Embedded System Lab	BTETPC21ET6P
22	UHF & Microwave	BTETPC22ET6T
23	UHF & Microwave Lab	BTETPC23ET6P
24	Communication Networks	BTETPC24ET7T
25	Communication Networks Lab	BTETPC24ET7P
26	VLSI	BTETPC26ET7T
27	VLSI Lab	BTETPC27ET7P
28	Mobile Computing	BTETPC28ET7T


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SoE No.
24BTET-1.1

Course Category: Programme Elective Course (PEC)		
Sr. No.	Course Name	Course Code
01	Fiber Optic Communication	BTETPE01ET5T
02	Control System	BTETPE02ET5T
03	Introduction to AI	BTETPE03ET5T
04	Satellite Communication	BTETPE04ET6T
05	Computer Architecture	BTETPE05ET6T
06	Image & Video Processing	BTETPE06ET6T
07	Antenna & Wave Propagation	BTETPE07ET6T
08	Advanced Digital Signal Processing	BTETPE08ET6T
09	5G – 6G Mobile Communication	BTETPE09ET6T
10	Biomedical Engineering	BTETPE10ET7T
11	IoT & Applications	BTETPE11ET7T
12	Introduction to Cloud Computing	BTETPE12ET7T
13	Cryptography & Network Security	BTETPE13ET7T
14	Real Time Embedded Systems	BTETPE14ET7T
15	Introduction to Machine Learning	BTETPE15ET7T

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SoE No.
24BTET-1.1

Course Category: Open Elective Course(OEC)

Sr. No.	Course Name	Course Code
01	Digital Marketing	BTALOE01CS3T
02	Organization Behavior and Psychology	BTALOE02CS3T
03	Soft Skills and Presentation Skills	BTALOE03IT3T
04	Industry 4.0	BTALOE04IT3T
05	E-Waste Management	BTALOE05ET3T
06	Aptitude & Reasoning	BTALOE06ET3T
07	Green Building Design	BTALOE07CE3T
08	Architectural Graphics	BTALOE08CE3T
09	Introduction to History of Indian Architecture	BTALOE09CE3T
10	Industrial Safety	BTALOE10ME3T
11	International Human Rights System	BTALOE12CS4T
12	Numerical Methods and operational research Techniques	BTALOE13CS4T
13	Cyber Law	BTALOE14IT4T
14	Operations Research	BTALOE15IT4T
15	Non-Conventional Energy Sources	BTALOE16ET4T
16	Consumer Electronics	BTALOE17ET4T
17	Industrial Pollution, Monitoring & Management	BTALOE18CE4T
18	Air and Noise Pollution Control	BTALOE19CE4T
19	Disaster Management	BTALOE20CE4T
20	Ergonomics	BTALOE21ME4T
21	Industrial Costing	BTALOE22ME4T
22	Quantitative Aptitude	BTETOE23SH4T
23	Advanced R Programming for data Analytics in Business	BTALOE24CS5T
24	Introduction to stock market and data analysis	BTALOE25CS5T
25	Intellectual Property Rights	BTALOE26IT5T
26	Product Design in Startup & Innovation	BTALOE27IT5T

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SoE No.
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27	Application of Drone Technology in Agriculture	BTALOE28ET5T
28	Customer Relationship Management	BTALOE29ET5T
29	Physical Environment & Natural Resources	BTALOE30CE5T
30	Environmental Policies and Governance	BTALOE31CE5T
31	Geology	BTALOE32CE5T
32	Total Quality Management	BTALOE33ME5T

Course Category: Co-curricular Courses (CC)		
Sr. No	Course Name	Course Code
01	Music Vocal -I/II	BTALCC01SHWP/BTALCC01SHSP
02	Music Instrumental (Guitar)-I/II	BTALCC03SHWP/BTALCC03SHSP
03	Dance-I/II	BTALCC05SHWP/BTALCC05SHSP
04	Basketball -I/II	BTALCC07SHWP/BTALCC07SHSP
05	Cricket -I/II	BTALCC09SHWP/BTALCC09SHSP
06	Volleyball-I/II	BTALCC11SHWP/BTALCC11SHSP
07	Language Sanskrit - I/II	BTALCC13SHWP/BTALCC13SHSP
08	Human Psychology - I/II	BTALCC15SHWP/BTALCC15SHSP
09	Drama/ Theater Activity - I/II	BTALCC17SHWP/BTALCC17SHSP
10	Mindfulness Meditation Program - I/II	BTALCC19SHWP/BTALCC19SHSP
11	NSS - I/II	BTALCC21SHWP/BTALCC21SHSP
12	Yoga - I/II	BTALCC23SHWP/BTALCC23SHSP
13	Film Making - I/II	BTALCC25SHWP/ BTALCC25SHSP

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SoE No.
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Course Category: Multidisciplinary Minor (MDM)

Sr. No	Course Name	Course Code
01	Basic Digital Communication	BTALMD11ET3T
02	Sensors and Transducers	BTALMD21ET3T
03	Data & Wireless Communications	BTALMD12ET4T
04	Microprocessor and Microcontroller	BTALMD22ET4T
05	Mobile Computing	BTALMD13ET5T
06	Introduction to Embedded System	BTALMD23ET5T
07	5G & 6G Communications	BTALMD14ET6T
08	IOT & Applications	BTALMD24ET6T
09	Teacher Assessment (MDM-I)	BTALMD15ET7P
10	Teacher Assessment (MDM-II)	BTALMD25ET7P

For the detailed list of Multidisciplinary Minor (MDM) courses, click here.

For the detailed list of Open Elective (OE) courses, click here.

For the detailed list of Co-curricular (CC) courses, click here.

Approved in.....
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Dated:-.....05/7/25.....



Scheme Semester - I

Scheme for First Year B. Tech. In Electronics and Telecommunications Engineering (Semester -I)															
Sr. No	Course Name	Course Code	Course Plan per Week (Hrs)				Credits	Theory Evaluation				Practical Evaluation		Total	ESE Time (Hrs)
			L	P	T	Hrs		MSE-I	MSE-II	TA	ESE	INT	EXT		
	Basic Science Courses (BSC)														
1	Engineering Mathematics -I	BTALBS01SH1T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
2	Engineering Chemistry	BTALBS02SH1T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
3	Engineering Chemistry Lab	BTALBS03SH1P	0	2	0	2	1	-	-	-	-	30	20	50	-
	Engineering Science Courses (ESC)														
4	Engineering Graphics	BTALES01ME1T	3	0	0	3	3	15	15	10	60	-	-	100	3.0
5	Engineering Graphics Lab	BTALES02ME1P	0	2	0	2	1	-	-	-	-	30	20	50	-
6	Introduction to Digital Electronics	BTETES03ET1T	2	0	0	2	2	15	15	10	60	-	-	100	2.5
7	Introduction to Digital Electronics Lab	BTETES04ET1P	0	2	0	2	1	-	-	-	-	30	20	50	-
	Vocational and Skill Enhancement Courses(VSEC)														
8	Electronic Appliances and Maintenance	BTETVS01ET1P	0	2	0	2	1	-	-	-	-	50	-	50	-
9	Design Thinking	BTETVS02ET1T	1	0	0	1	1	-	-	50	-	-	-	50	-
	Ability Enhancement Courses(AEC)														
10	Professional Communication	BTALAE01SH1P	0	2	1	3	2	-	-	-	-	30	20	50	2.5
	Value Education Courses(VEC)														
11	Values and Ethics	BTALVE01SH1T	2	0	0	2	2	15	15	10	60	-	-	100	2.5
12	Environmental studies	BTALVE02SH1T	1	0	0	1	1	-	-	50	-	-	-	50	-
	Co-curricular Course(CC)														
13	Co-curricular course (CC1)	BTALCC01SH1P	-	2	-	2	1	-	-	-	-	50	-	50	-
TOTAL			15	12	1	28	22	75	75	150	300	220	80	900	-
L: Lecture P: Practical T : Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External															

Note : Six hours per weeks are allotted for continuous evaluation process of the above subjects (Total contact hours per week =42 Hrs)

For the details of CC Courses, Refer the link given on page no.....

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**SoE No.
24BTET-1.1**

Scheme Semester II

Scheme for First Year B. Tech. In Electronics and Telecommunications Engineering (Semester -II)															
Sr No	Course Name	Course Code	Course Plan per Week (Hrs)				Credits	Theory Evaluation				Practical Evaluation		Total	ESE Time (Hrs)
			L	P	T	Hrs		MSE- I	MSE-II	TA	ESE	INT	EXT		
	Basic Science Courses (BSC)														
1	Engineering Mathematics -II	BTALBS04SH2T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
2	Engineering Physics	BTETBS05SH2T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
3	Engineering Physics Lab	BTETBS06SH2P	0	2	0	2	1	-	-	-	-	30	20	50	-
	Engineering Science Courses (ESC)														
4	Basic Electrical Engineering	BTALES05ET2T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
5	Basic Electrical Engineering Lab	BTALES06ET2P	0	2	0	2	1	-	-	-	-	30	20	50	-
6	Programming for Problem Solving	BTETES07IT2T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
7	Programming for Problem Solving Lab	BTETES08IT2P	0	2	0	2	1	-	-	-	-	30	20	50	-
8	Workshop Practice Lab	BTALES09ME2P	0	2	0	2	1	-	-	-	-	30	20	50	-
	Vocational and Skill Enhancement Courses (VSEC)														
9	PC Maintenance and Troubleshooting	BTETVS03ET2P	0	2	0	2	1	-	-	-	-	50	-	50	-
	Program Core Courses (PCC)														
10	Sensors and Transducers	BTETPC01ET2T	2	0	0	2	2	15	15	10	60	-	-	100	2.5
	Indian Knowledge System (IKS)														
11	Indian Knowledge System	BTALIK01SH2T	2	0	0	2	2	-	-	50	-	-	-	50	-
	Co-curricular Courses (CC)														
12	Co-curricular course (CC2)	BTALCC02SH2P	-	2	-	2	1	-	-	-	-	50	-	50	-
TOTAL			16	12	0	28	22	75	75	100	300	220	80	850	-
Lecture P: Practical T : Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External															

For the details of CC Courses, Refer the link given on page no.....

Scheme for Multiple Entry and Exit

Exit option1(L4.5): Award of One Year UG Certificate in Major with 44 credits and an additional 8 credits.

Exit Courses

Eight Credit Online Course from Swayam / NPTEL / Any Other Agency approved by the BoS, which provides Certification / Evaluation.	Online Certification Course	8 Credits
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NOTE: Suitable number of hours per week are allotted for continuous evaluation process for the above subjects. (Total contact hours per week =42 Hrs.)

Approved in.....
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Dated:.....05.12.15.....



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Scheme Semester- III

Scheme for Second Year B. Tech. In Electronics and Telecommunications Engineering (Semester-III)															
Sr No	Course Name	Course Code	Course Plan per Week (Hrs)				Credits	Theory Evaluation				Practical Evaluation		Total	ESE Time (Hrs)
			L	P	T	Hrs		MSE I	MSE II	TA	ESE	INT	EXT		
	Basic Science Courses (BSC)														
1	Engineering Mathematics -III	BTETBS07SH3T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
	Program Core Courses (PCC)														
2	Electronics Devices and Circuits	BTETPC02ET3T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
3	Electronics Devices and Circuits Lab	BTETPC03ET3P	0	2	0	2	1	-	-	-	-	30	20	50	-
4	Digital System Design	BTETPC04ET3T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
5	Digital System Design Lab	BTETPC05ET3P	0	2	0	2	1	-	-	-	-	30	20	50	-
6	Electromagnetic Fields	BTETPC06ET3T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
7	Object Oriented Programming Lab	BTETPC07ET3P	0	2	0	2	1	-	-	-	-	30	20	50	-
	Multidisciplinary Minor Courses (MDM)														
8	Multi-Disciplinary Minor-I	--	3	0	0	3	3	15	15	10	60	-	-	100	2.5
	Open Elective Courses (OEC)														
9	Open Elective- I	--	2	0	0	2	2	15	15	10	60	-	-	100	2.5
	HSSMC (Entrepreneurship/ Economics/ Management Course)														
10	Economics for Engineers	BTETEM01ET3T	2	0	0	2	2	15	15	10	60	-	-	100	2.5
TOTAL			19	06	0	25	22	105	105	70	420	90	60	850	-
L: Lecture P: Practical T : Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External															

L: Lecture P: Practical T: Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External

NOTE: Suitable number of hours per week are allotted for continuous evaluation process for the above subjects. (Total contact hours per week =42 Hrs.)

For the details of OE/MDM Courses, Refer the link given on page no.....

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Scheme Semester- IV

Scheme for Second Year B. Tech. In Electronics and Telecommunications Engineering (Semester-IV)															
Sr No	Course Name	Course Code	Course Plan per Week (Hrs)				Credits	Theory Evaluation				Practical Evaluation		Total	ESE Time (Hrs)
			L	P	T	Hrs		MSE I	MSE II	TA	ESE	INT	EXT		
	Program Core Courses (PCC)														
1	Analog Circuits	BTETPC08ET4T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
2	Analog Circuits Lab	BTETPC09ET4P	0	2	0	2	1	-	-	-	-	30	20	50	-
3	Analog & Digital Communications	BTETPC10ET4T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
4	Analog & Digital Communications Lab	BTETPC11ET4P	0	2	0	2	1	-	-	-	-	30	20	50	-
5	Signals & System	BTETPC12ET4T	2	0	0	2	2	15	15	10	60	-	-	100	2.5
6	Signals & System Lab	BTETPC29ET4P	0	2	0	2	1	-	-	-	-	30	20	50	-
7	Network Analysis	BTETPC13ET4T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
	Multidisciplinary Minor Courses (MDM)														
8	Multi-Disciplinary Minor-II	--	3	0	0	3	3	15	15	10	60	-	-	100	2.5
	Vocational and Skill Enhancement Courses (VSEC)														
9	IOT Lab	BTETVS04ET4P	0	2	0	2	1	-	-	-	-	50	-	50	-
	Open Elective Courses (OEC)														
10	Open Elective- II	--	2	0	0	2	2	15	15	10	60	-	-	100	2.5
	HSSMC (Entrepreneurship/ Economics/ Management Course)														
11	Innovation, Creativity & Entrepreneurship	BTETEM02ET4T	2	0	0	2	2	15	15	10	60	-	-	100	2.5
TOTAL			18	08	0	26	22	105	105	70	420	140	60	900	-
L: Lecture P: Practical T : Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External															

L: Lecture P: Practical T : Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External

NOTE: Suitable number of hours per week are allotted for continuous evaluation process for the above subjects. (Total contact hours per week =42 Hrs.)

For the details of OE/MDM Courses, Refer the link given on page no.....

Scheme for Multiple Entry and Exit

Exit Option1(L5.0): Award of Two Years UG Diploma in Major with 88 credits and additional 8 credits.		
Exit Courses		
Eight Credit Online Course from Swayam / NPTEL / Any Other Agency approved by the BoS, which provides Certification / Evaluation.	Online Certification Course	8 credits

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**SoE No.
24BTET-1.1**

Scheme Semester- V

Scheme for Third Year B. Tech. In Electronics and Telecommunications Engineering (Semester-V)															
Sr No	Course Name	Course Code	Course Plan per Week (Hrs)				Credits	Theory Evaluation				Practical Evaluation		Total	ESE Time (Hrs)
			L	P	T	Hrs		MSE I	MSE II	TA	ESE	INT	EXT		
Program Core Courses (PCC)															
1	Microprocessor & Microcontrollers	BTETPC14ET5T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
2	Microprocessor & Microcontrollers Lab	BTETPC15ET5P	0	2	0	2	1	-	-	-	-	30	20	50	-
3	Digital Signal Processing	BTETPC16ET5T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
4	Digital Signal Processing Lab	BTETPC17ET5P	0	2	0	2	1	-	-	-	-	30	20	50	-
5	Power Electronics	BTETPC18ET5T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
6	Power Electronics Lab	BTETPC19ET5P	0	2	0	2	1	-	-	-	-	30	20	50	-
7	Program Elective Course-I	--	3	0	1	4	4	15	15	10	60	-	-	100	2.5
8	Comm. Engg. Project/ Field project	BTETFP01ET5P	0	2	0	2	1	-	-	-	-	50	-	50	-
Multidisciplinary Minor Courses (MDM)															
9	Multi-Disciplinary Minor-III	--	3	0	0	3	3	15	15	10	60	-	-	100	2.5
Open Elective Courses (OEC)															
10	Open Elective- III	--	2	0	0	2	2	15	15	10	60	-	-	100	2.5
TOTAL			17	08	1	26	22	90	90	60	360	140	60	800	-
L: Lecture P: Practical T : Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External															

L: Lecture P: Practical T: Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External

NOTE: Suitable number of hours per week are allotted for continuous evaluation process for the above subjects. (Total contact hours per week =42 Hrs.)

Programme Elective Courses (PEC-I) Semester-V (Choose any one course)

Sr. No.	Course Name	Course Code
1	Fiber Optic Communication	BTETPE01ET5T
2	Control System	BTETPE02ET5T
3	AI with Python	BTETPE03ET5T

For the details of OE/MDM Courses, Refer the link given on page no.....

Approved in.....
Academic Council Meeting
Dated:- 30/03/2016



Scheme Semester- VI

Scheme for Third Year B. Tech. In Electronics and Telecommunications Engineering (Semester-VI)															
Sr No	Course Name	Course Code	Course Plan per Week (Hrs)				Credits	Theory Evaluation				Practical Evaluation		Total	ESE Time (Hrs)
			L	P	T	Hrs		MSE I	MSE II	TA	ESE	INT	EXT		
Program Core Courses (PCC)															
1	Embedded System	BTETPC20ET6T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
2	Embedded System Lab	BTETPC21ET6P	0	2	0	2	1	-	-	-	-	30	20	50	-
3	UHF & Microwave	BTETPC22ET6T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
4	UHF & Microwave Lab	BTETPC23ET6P	0	2	0	2	1	-	-	-	-	30	20	50	-
5	Program Elective Course –II	--	3	0	1	4	4	15	15	10	60	-	-	100	2.5
6	Program Elective Course - III	--	3	0	1	4	4	15	15	10	60	-	-	100	2.5
Ability Enhancement Courses (AEC)															
7	Modern Indian Language	BTALAE02SH6P	1	0	0	1	1	-	-	50	-	-	-	50	-
Multidisciplinary Minor Courses(MDM)															
8	Multi-Disciplinary Minor-IV	--	3	0	0	3	3	15	15	10	60	-	-	100	2.5
Vocational and Skill Enhancement Courses(VSEC)															
9	Drone Technology	BTETVS05ET6P	1	2	0	3	2	-	-	-	-	50	-	50	-
TOTAL			17	06	3	25	22	75	75	60	340	110	40	700	-
L: Lecture P: Practical T : Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External															

L: Lecture P: Practical T : Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External

NOTE: Suitable number of hours per week are allotted for continuous evaluation process for the above subjects. (Total contact hours per week =42 Hrs.)

For the details of MDM Courses, Refer the link given on page no.....

Programme Elective Courses (PEC-II) Semester-VI (Choose any one course with corresponding lab.)

Sr. NO	Course Name	Course Code
1	Satellite Communication	BTETPE04ET6T
2	Computer Architecture	BTETPE05ET6T
3	Digital Image Processing	BTETPE06ET6T

Programme Elective Courses (PEC-III) Semester-VI (Choose any one course with corresponding lab.)

Sr. NO	Course Name	Course Code
1	Antenna & Wave Propagation	BTETPE07ET6T
2	Advanced Digital Signal Processing	BTETPE08ET6T
3	5G – 6G Mobile Communication	BTETPE09ET6T

Scheme for Multiple Entry and Exit

Exit option1(L5.5): Award of Three Years Bachelor's Degree(B. Voc or B.Sc.) in Major with 132 credits and additional 8 credits.															
Exit Courses															
1	Eight Credit Online Course from Swayam / NPTEL / Any Other Agency approved by the BoS, which provides Certification / Evaluation.										Online Certification Course		8Credits		



Scheme Semester- VII

Scheme for Fourth Year B. Tech. In Electronics and Telecommunications Engineering (Semester -VII)

Sr No	Course Name	Course Code	Course Plan per Week (Hrs)				Credits	Theory Evaluation				Practical Evaluation		Total	ESE Time (Hrs)
			L	P	T	Hrs		MSE-I	MSE-II	TA	ESE	INT	EXT		
	Program Core Courses (PCC)														
1	Communication Networks	BTETPC24ET7T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
2	Communication Networks LAB	BTETPC24ET7P	0	2	0	2	1	-	-	-	-	30	20	50	-
3	VLSI	BTETPC26ET7T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
4	VLSI Lab	BTETPC27ET7P	0	2	0	2	1	-	-	-	-	30	20	50	-
5	Mobile Computing	BTETPC28ET7T	3	0	0	3	3	15	15	10	60	-	-	100	2.5
6	Program Elective Course- IV	--	3	0	1	4	4	15	15	10	60	-	-	100	2.5
7	Program Elective Course- V	--	3	0	0	3	3	15	15	10	60	-	-	100	2.5
	Laboratory Courses														
8	Project and Seminar	BTETPS01ET7P	0	8	0	8	4	-	-	-	-	30	20	50	-
TOTAL			15	12	1	28	22	75	75	50	300	90	60	650	-
L: Lecture P: Practical T : Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External															

Note: Suitable number of hours per week are allotted for continuous evaluation process of all subjects (Total contact hours per week = 42 Hrs).

Programme Elective Courses (PEC-IV) Semester-VII (Choose any one course)

Sr.NO	Course Name	Course Code
1	Biomedical Engineering	BTETPE10ET7T
2	IoT & Applications	BTETPE11ET7T
3	Introduction to Cloud Computing	BTETPE12ET7T

Programme Elective Courses (PEC-V) Semester-VII (Choose any one course with corresponding lab.)

Sr.NO	Course Name	Course Code
1	Cryptography & Network Security	BTETPE13ET7T
2	Real Time Embedded Systems	BTETPE14ET7T
3	Introduction to Machine Learning	BTETPE15ET7T

Approved in.....
Academic Council Meeting
Dated:-.....05/7/15.....



Scheme Semester- VIII

Scheme for Fourth Year B. Tech. In Electronics and Telecommunications Engineering (Semester -VIII)															
Sr. No.	Course Name	Course Code	Course Plan per Week (Hrs)				Credits	Theory Evaluation				Practical Evaluation		Total	ESE Time (Hrs)
			L	P	T	Hrs		MSE-I	MSE-II	TA	ESE	INT	EXT		
	Program Core Courses (PCC)														
1	Industry Internship OR Research Internship OR Entrepreneurship	BTETII01ET8P OR BTETRI01ET8P OR BTETEI01ET8P	0	24	0	24	12	-	-	-	-	20	80	100	-
2	Research Methodology	BTETRM01ET8T	3	0	1	4	4	15	15	10	60	-	-	100	2.5
	Multidisciplinary Minor Courses (MDM)														
3	Multi-Disciplinary Minor-V	--	0	2	0	4	2	-	-	-	-	50	-	50	-
TOTAL			3	26	1	32	18	15	15	10	60	70	80	250	-
L: Lecture P: Practical T : Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External															

NOTE: Suitable number of hours per week are allotted for continuous evaluation process for the above subjects. (Total contact hours per week =42 Hrs.)

For the details of MDM Courses, Refer the link given on page no.....

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 Academic Council Meeting
 Dated:-.....05/7/15.....