

B. Tech (Electronics & Telecommunication Engineering) / B. Tech (Electronics Engineering)
Curriculum for Semester III [Second Year]

Sr. No.	Course Code	Course Title	Hours Per Week			Evaluation Scheme			Total Marks	Credits
			L	T	P	MSE	CA	ESE		
1	BTBSC301	Engineering Mathematics-III	3	1	0	20	20	60	100	4
2	BTEXC302	Analog Circuits	2	1	0	20	20	60	100	3
3	BTEXC303	Electronic Devices & Circuits	2	1	0	20	20	60	100	3
4	BTEXC304	Network Analysis	2	1	0	20	20	60	100	3
5	BTEXC305	Digital Logic Design	2	1	0	20	20	60	100	3
6	BTHM3401	Basic Human Rights	2	0	0	--	50	--	50	(Audit)
7	BTEXL307	Analog Circuits Lab	0	0	2	--	60	40	100	1
8	BTEXL308	Electronic Devices & Circuits Lab	0	0	2	--	60	40	100	1
9	BTEXL309	Network Analysis Lab	0	0	2	--	60	40	100	1
10	BTEXL310	Digital Logic Design Lab	0	0	2	--	60	40	100	1
11	BTEXW311	Electronics Workshop	0	0	2	--	60	40	100	1
Total			13	05	10	100	450	500	1050	21

		Training (Minimum 4 weeks which can be completed partially in third semester or fourth semester or in at one time)								evaluated in V th Semester)	
			Total	11	05	13	100	560	640	1100	22

B. Tech (Electronics & Telecommunication Engineering)
Proposed Curriculum for Semester V [Third Year]

Sr. No.	Course Code	Type of Course	Course Title	Hours Per Week			Evaluation Scheme			Total Marks	Credits
				L	T	P	MSE	CA	ESE		
1	BTEXC501	Professional Core Course 1	Electromagnetic Field Theory	2	1	0	20	20	60	100	3
2	BTEXC502	Professional Core Course 2	Control System Engineering	3	0	0	20	20	60	100	3
3	BTETC503	Professional Core Course 3	Computer Architecture	3	0	0	20	20	60	100	3
4	BTEXC504	Professional Core Course 4	Digital Signal Processing	2	1	0	20	20	60	100	3
5	BTEXC505	Professional Core Course 5	Microcontroller and its Applications	3	0	0	20	20	60	100	3
6	BTEXPE506A	Program Elective Course 1	Probability Theory and Random Processes	3	0	0	20	20	60	100	3
	BTEXPE506B		NSQF (Level 7 Course)								
	BTEXPE506C		Data Structure & Algorithms Using Java Programming								
	BTEXPE506D		Introduction to MEMS								
7	BTETL507	Control System Engineering Lab		0	0	2	--	30	20	50	1

8	BTETL508	Digital Signal Processing Lab	0	0	2	--	30	20	50	1
9	BTETL509	Microcontroller and its Applications Lab	0	0	2	--	30	20	50	1
10	BTETP510	Mini Project	0	0	2	--	30	20	50	1
11	BTETS511	Seminar	0	0	2	--	30	20	50	1
12	BTEXF412	Field Training/ Internship/Industrial Training Evaluation	--	--	--	--	--	50	50	1
Total			16	02	10	120	240	490	850	24

B. Tech (Electronics & Telecommunication Engineering)
Proposed Curriculum for Semester VI [Third Year]

Sr. No.	Course Code	Type of Course	Course Title	Hours Per Week			Evaluation Scheme			Total Marks	Credits
				L	T	P	MSE	CA	ESE		
1	BTETC601	Professional Core Course 1	Antennas and Wave Propagation	3	0	0	20	20	60	100	3
2	BTETC602	Professional Core Course 2	Computer Network & Cloud Computing	3	0	0	20	20	60	100	3
3	BTETC603	Professional Core Course 3	Digital Image Processing	3	0	0	20	20	60	100	3
4	BTETPE604A	Program Elective Course 2	CMOS Design	3	0	0	20	20	60	100	3
	BTETPE604B		Information Theory and Coding								
	BTETPE604C		Power Electronics								
	BTETPE604D		Nano Electronics								
	BTETPE604E		NSQF (Level 7 Course)								
	BTETPE604F		Android Programming								
5	BTETOE605A	Open Elective Course 1	Digital System Design	3	0	0	20	20	60	100	3
	BTETOE605B		Optimization Techniques								
	BTETOE605C		Project Management and Operation Research								
	BTETOE605D		Augmented, Virtual and Mixed Reality								

	BTETOE605E		Python Programming									
	BTETOE605F		Web Development and Design									
6	BTHM606	Humanities & Social Science including Management Courses	Employability & Skill Development	2	0	0	20	20	60	100	2	
7	BTETL607	Computer Network & Cloud Computing Lab		0	0	2	--	30	20	50	1	
8	BTETL608	Program Elective-2 Lab		0	0	2	--	30	20	50	1	
9	BTETL609	Open Elective-1 Lab		0	0	2	--	30	20	50	1	
10	BTETP610	Mini-project		0	0	2	--	30	20	50	1	
11	BTETF611	Field Training/ Internship/ Industrial Training (Minimum 4 weeks)		--	--	--	--	--	--	--	1*	
Total				17	0	8	120	240	440	800	21	
Program Elective- 2				Open Elective- 1								
(A) CMOS Design				(A) Digital System Design								
(B) Information Theory and Coding				(B) Optimization Techniques								
(C) Power Electronics				(C) Project Management and Operation Research								
(D) Nano Electronics				(D) Augmented, Virtual and Mixed Reality								
(E) NSQF (Level 7 Course)				(E) Python Programming								
(F) Android Programming				(F) Web Development and Design								

* To be evaluated in VIIth Semester

B. Tech (Electronics & Telecommunication Engineering)
Proposed Curriculum for Semester VII [Final Year]

Sr. No.	Course Code	Type of Course	Course Title	Hours Per Week			Evaluation Scheme			Total Marks	Credits
				L	T	P	MSE	CA	ESE		
1	BTETC701	Professional Core Course- 1	Digital Communication	3	0	0	20	20	60	100	3
2	BTETPE702	Program Elective-3	Group A	3	0	0	20	20	60	100	3
3	BTETPE703	Program Elective-4	Group B	3	0	0	20	20	60	100	3
4	BTETPE704	Program Elective-5	Group C	3	0	0	20	20	60	100	3
5	BTHM705	Humanities & Social Science including Management Courses	Financial Management	2	0	0	20	20	60	100	2
6	BTETL706	Program Elective - 3 Lab		0	0	2	--	30	20	50	1
7	BTETL707	Program Elective - 4 Lab		0	0	2	--	30	20	50	1
8	BTETL708	Program Elective - 5 Lab		0	0	2	--	30	20	50	1
9	BTETP709	Project Part-I		0	0	8	--	50	50	100	4
10	BTETF611	Field Training/ Internship/Industrial Training Evaluation		--	--	--	--	--	50	50	1
Total				14	0	14	100	240	460	800	22

Program Elective - 3 (Group A)	Program Elective -4 (Group B)	Program Elective- 5 (Group C)
(A) Microwave Theory & Techniques	(A) Embedded System Design	(A) Consumer Electronics
(B) RF Circuit Design	(B) Artificial Intelligence Deep learning	(B) Analog Integrated Circuit Design
(C) Satellite Communication	(C) VLSI Design & Technology	(C) Soft Computing
(D) Fiber Optic Communication	(D) Data Compression & Encryption	(D) Advance Industrial Automation-I
(E) Wireless Sensor Networks	(E) Big Data Analytics	(E) Mechatronics
(F) Mobile Computing	(F) Cyber Security	(F) Electronics in Smart City

B. Tech (Electronics & Telecommunication Engineering)
Proposed Curriculum for Semester VIII [Final Year]

(Students doing the Project at Institute Level)

Sr. No.	Course Code	Type of Course	Course Title	Hours Per Week			Evaluation Scheme			Total Marks	Credits
				L	T	P	MSE	CA	ESE		
1	BTETPE801	Program Elective 6	Group A	3	0	0	20	20	60	100	3
2	BTETPE802	Program Elective 7	Group B	3	0	0	20	20	60	100	3
3	BTETOE803	Open Elective 2	Group C	3	0	0	20	20	60	100	3
4	BTETL804	Program Elective 6 Lab		0	0	2	--	40	60	100	1
5	BTETL805	Program Elective 7 Lab		0	0	2	--	40	60	100	1
6	BTETP806	Project Part-II		0	0	16	--	100	50	150	8
Total				9	0	20	60	240	350	650	19

OR

B. Tech (Electronics & Telecommunication Engineering)
Proposed Curriculum for Semester VIII [Final Year]

(Students doing the Project at Industry)

Sr. No.	Course Code	Type of Course	Course Title	Hours Per Week			Evaluation Scheme			Total Marks	Credits
				L	T	P	MSE	CA	ESE		
1	BTETPE801	Program Elective 6	Group A	3	0	0	20	20	60	100	3*
2	BTETPE802	Program Elective 7	Group B	3	0	0	20	20	60	100	3*
3	BTETOE803	Open Elective 2	Group C	3	0	0	20	20	60	100	3*
4	BTETP804	Project Part-II		0	0	20	--	100	50	150	10
Total				9	0	20	60	240	350	650	19

* Students should complete the certification credit course using SWAYAM, MOOC, NPTEL, Coursera platform and submit the certificate . University will transfer these credits accordingly.

OR

B. Tech (Electronics & Telecommunication Engineering)

Proposed Curriculum for Semester VIII [Final Year]

(Students doing the In-plant training and completing the Project sponsored / promoted by Industry)

Sr. No.	Course Code	Type of Course	Course Title	Hours Per Week			Evaluation Scheme			Total Marks	Credits
				L	T	P	MSE	CA	ESE		
1	BTETPE801	Program Elective 6	Group A	--	--	--	--	60*	40*	--	Audit *
2	BTETPE802	Program Elective 7	Group B	--	--	--	--	60*	40*	--	Audit *
3	BTETOE803	Open Elective 2	Group C	--	--	--	--	60*	40*	--	Audit *
4	BTETP804I	In-Plant Training and Project Part-II		--	--	30	--	450	200	--	19
Total				--	--	30	--	450	200	650	19

* Students should complete the certification course using SWAYAM, MOOC, NPTEL Platform or self -study mode.

Program Elective 6 (Group A)	Program Elective 7 (Group B)	Open Elective 2 (Group C)
(A) Entrepreneurship Development	(A) e-Yantra	(A) Advanced Industrial Automation -2
(B) Mixed Signal Design	(B) Mobile Communication & Networks	(B) IoT based Embedded System Design.
(C) Bio-medical Signal Processing	(C) Geo-informatics and Spatial Computing	(C) Industrial Drives and Control
(D) Multirate Digital Signal Processing	(D) Software Defined Radio	(D) Robotics Design
(E) Wavelet Theory	(E) Under Water Signal Processing	(E) Block Chain Technology