

**Program Structure**  
**B. Tech ( Electronics & Communication Engineering)**  
**AY:2018-19**

Year	Semester-I						Semester-II					
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U		
1st	MA 111	MATHEMATICS I	3	0	3	ES111	THERMODYNAMICS	3	0	3		
	PH 111	PHYSICS I	3	0	3	ES121	ENGINEERING MECHANICS	3	0	3		
	CH 111	CHEMISTRY	3	0	3	MA 121	MATHEMATICS II	3	0	3		
	TA 104	PHYSICAL SCIENCES LAB I	0	3	1	PH 121	PHYSICS II	3	0	3		
	TA 102	WORKSHOP	2	4	4		PHYSICAL SCIENCES LAB II	0	2	1		
	ENV122	ENVIRONMENTAL SCIENCE	3	0	3	TA 101	ENGINEERING GRAPHICS	2	4	4		
	EGL111	ENGLISH LANGUAGE SKILL	3	0	3	TA121 T	C PROGRAMMING	3	0	3		
						TA121 P	C PROGRAMMING PRACTICAL	0	3	2		
							<b>Total No. of Credits</b>			<b>22</b>		
	Summer Term	SIP101		Summer Internship Program-I							<b>0 0 5</b>	
2nd			Semester-I					Semester-II				
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U		
	EC211T	DIGITAL LOGIC DESIGN	3	0	3		HUMANITIES ELECTIVE I	3	0	3		

  
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EC211 P	DIGITAL LOGIC DESIGN PRACTICAL	0	3	2	MA212	PROBABILITY AND STATISTICS	3	0	3		
CS 212T	OBJECT ORIENTED PROGRAMMING THROUGH C++	3	0	3	EC217	EM FIELDS & WAVES	3	0	3		
CS 212 P	OBJECT ORIENTED PROGRAMMING THROUGH C++ PRACTICAL	0	3	2	CS311T	DATABASE MANAGEMENT SYSTEM	3	0	3		
EC 221	ELECTRONIC DEVICES AND CIRCUITS	3	0	3	CS311P	DATABASE MANAGEMENT SYSTEM PRACTICAL	0	3	2		
ES 211T	BASIC ELECTRICAL & ELECTRONICS ENGINEERING	3	0	3	EC224T	NETWORK THEORY	3	0	3		
ES 211P	BASIC ELECTRICAL & ELECTRONICS ENGINEERING PRACTICAL	0	3	2	EC224 P	NETWORK THEORY PRACTICAL	0	3	2		
TA204/ EGL 233	TECHNICAL REPORT WRITING	3	0	3	EC222 T	MICROPROCESSOR PROGRAMMING AND INTERFACING	3	0	3		
MA 211	MATHEMATICS III	3	0	3	EC222 P	MICROPROCESSOR PROGRAMMING AND INTERFACING PRACTICAL	0	3	2		
	<b>Total No. of Credits</b>		<b>24</b>			<b>Total No. of Credits</b>		<b>24</b>			
<b>Summer Term</b>	<b>SIP201</b>	<b>Summer Internship Program-II</b>							<b>0</b>	<b>0</b>	<b>5</b>

  
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Year	Semester-I						Semester-II					
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U		
3rd	MA 309	NUMERICAL ANALYSIS	3	0	3		HUMANITIES ELECTIVE II	3	0	3		
	EC 324	SIGNALS & SYSTEM	3	0	3	EC325	RADAR SYSTEM	3	0	3		
	EC 313T	ANALOG ELECTRONICS	3	0	3	EC328T	DIGITAL SIGNAL PROCESSING	3	0	3		
	EC 313P	ANALOG ELECTRONICS PRACTICAL	0	3	2	EC328P	DIGITAL SIGNAL PROCESSING PRACTICAL	0	3	2		
	EC 315T	CONTROL SYSTEMS	3	0	3	EC326T	ANALOG COMMUNICATION TECHNIQUES	3	0	3		
	EC315 P	CONTROL SYSTEMS PRACTICAL	0	3	2	EC326P	ANALOG COMMUNICATION TECHNIQUES PRACTICAL	0	3	2		
	CS312T	PROGRAMMING WITH JAVA	3	0	3	EC327T	ELECTRICAL & ELECTRONICS MEASUREMENTS	3	0	3		
	CS312P	PROGRAMMING WITH JAVA PRACTICAL	0	3	2		ELECTRICAL & ELECTRONICS MEASUREMENTS PRACTICAL	0	3	2		
	EC323T	LINEAR INTEGRATED CIRCUITS AND APPLICATION	3	0	3	CS323	COMPUTER ORGANIZATION AND ARCHITECTURE	3	0	3		
	EC323P	LINEAR INTEGRATED CIRCUITS AND APPLICATION PRACTICAL	0	3	2							
	SSU354	SOFT SKILLS	3	0	2							

  
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Summer Term		Total No. of Credits				28				Total No. of Credits				24			
SIP301		Summer Internship Program-III												0 0 5			
Year	Semester-I						Semester-II						Total No. of Credits				
	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U		
4th	EC422T	DIGITAL COMMUNICATION	3	0	3	EC402T	VLSI DESIGN	3	0	3			3	0	3		
	EC422P	DIGITAL COMMUNICATION PRACTICAL	0	3	2	EC402P	VLSI DESIGN PRACTICAL	0	3	2			0	3	2		
	EC407T	MICRO CONTROLLERS AND APPLICATIONS	3	0	3	EC427	SATELLITE COMMUNICATION SYSTEMS	3	0	3			3	0	3		
	EC407P	MICRO CONTROLLERS AND APPLICATIONS PRACTICAL	0	3	2		ELECTIVE 3	0	3	2			0	3	2		
	EC430T	RF & MICROWAVE ENGINEERING	3	0	3	GV403	GRAND VIVA	3	0	3			0	0	3		
	EC430P	RF & MICROWAVE ENGINEERING PRACTICAL	0	3	2	EC492	SPECIAL PROJECT II	0	3	2			0	0	5		
		ELECTIVE 1	3	0	3												
		ELECTIVE 2	3	0	3												
	EC491	SPECIAL PROJECT I	0	0	5												
			<b>Total No. of Credits</b>						<b>26</b>						<b>Total No. of Credits</b>		<b>19</b>

**Total Credits: 202**

  
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**List of Elective 4<sup>th</sup> Year  
Semester-I and II**

Course Code	Course Name	L	P	U	Course Code	Course Name	L	P	U
EC 401	Telecom Switching Systems and Networks	3	0	3	EC 424	Mobile Telecommunication Networks	3	0	3
EC 431T	Image Processing	3	0	3	EC 426	Random Signal Processing	3	0	3
EC 431P	Image Processing Practical				EC 428	Wireless Communication Networks			
EC 432	Fiber Optics and Optoelectronics	3	0	3	EC 429	Antennas and wave Propagation	3	0	3
EC 406	Television Engineering	3	0	3	EC 434	Digital Image Processing	3	0	3
EC 419T	Mask Design	3	0	3	EC 435	Embedded Systems	3	0	3
EC 419P	Mask Design Practical	0	3	2	EC 437	Advance Control Systems	3	0	3
EC 420T	Analog and Digital VLSI Design	3	0	3	EC 438	Information Theory And Coding	3	0	3
EC 420P	Analog and Digital VLSI Design Practical	0	3	2		Robotics & robot application	3	0	3

  
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