

DETAILED SYLLABI

for

BACHELOR OF TECHNOLOGY

(B.TECH) DEGREE

ELECTRONICS AND COMMUNICATION ENGINEERING

FIRST SEMESTER

Code No.	Paper	L	T/P	Credits
THEORY PAPERS				
BTMAT101	Applied Mathematics – I	3	1	4
BTPHT101	Applied Physics - I	3	1	4
BTCHT101	Engineering Chemistry	3	0	3
BTMET102	Engineering Graphics	2	0	2
BTCST101	Introduction to Computers and IT Tools	2	0	2
BTEET101	Basic Electrical Engineering	3	1	4
BTHUT101	Professional Communication skills in English -I	2	1	3
Practical /VIVA VOCE				
BTPHL101	Applied Physics Lab-I	0	2	1
BTCHL101	Engineering Chemistry Lab	0	2	1
BTEEL101	Basic Electrical Engineering Lab	0	2	1
BTCSL101	Automation Tools & Web designing Lab	0	2	1
BTMEL102	Engineering Graphics	0	4	2
BTMEL103	Manufacturing Practices	0	3	1
BTHUL101	# Community Service and Welfare	0	1	1
	TOTAL	18	20	30

SECOND SEMESTER

Code No.	Paper	L	T/P	Credits
THEORY PAPERS				
BTMAT102	Applied Mathematics – II	3	1	4
BTPHT102	Applied Physics - II	3	1	4
BTCHT102	Environment chemistry	2	1	3
BTCST102	Problem Solving and Programming in C	2	0	2
BTECT101	Basic Electronics	3	1	4
BTMET101	Engineering Mechanics	3	0	3
BTHUT102	Professional Communication Skills in English -II	2	1	3
LAB/VIVA VOCE				
BTPHL102	Applied Physics – II Lab	0	2	1
BTCHL102	Environment Chemistry Lab.	0	2	1
BTCSTL102	C programming Lab	0	4	2
BTECL101	Basic Electronics Lab	0	2	1
BTMEL101	Engineering Mechanics Lab	0	2	1
BTHUL102	#Comparative Study of Religions	1	0	1
	TOTAL	19	17	30

THIRD SEMESTER

Course Code	Paper/Subject Name	L	T/P	Credits
THEORY PAPERS				
BTMAT203	Applied Mathematics-III	3	1	4
BTECT202	Analog Electronics	3	1	4
BTECT203	Signal & Systems	3	1	4
BTECT204	Circuits and Systems	3	1	4
BTCST204	Object Oriented Programming using C++	3	1	4
BTECT205	Electronic Measurement & Measuring Instruments	3	1	4
LAB/VIVA VOCE				
BTECL202	*Analog Electronics Lab.	0	2	1
BTECL203	*Circuits & Systems Lab.	0	2	1
BTCCL203	C++ Programming Lab.	0	2	1
BTECL204	Electronic Measurement & Measuring Instruments Lab	0	2	1
	TOTAL	18	14	28

FOURTH SEMESTER

Code No.	Paper	L	T/P	Credits
THEORY PAPERS				
BTEET202	Electrical Machines and Drives	3	1	4
BTECT206	Digital Circuits & Systems – I	3	1	4
BTCST205	Data Structures	3	1	4
BTECT208	Communication Systems & Circuits – I	3	1	4
BTECT209	Electromagnetic Fields & Transmission Lines	3	1	4
BTCST209	Operating Systems	3	1	4
LAB/VIVA VOCE				
BTEEL202	Electrical Machines & Drives Lab	0	2	1
BTECL205	*Digital Circuits & Systems – I Lab.	0	2	1
BTCCL204	Data Structures Lab.	0	2	1
BTECL206	*Communication Systems & Circuits – I Lab.	0	2	1
BTCCL208	Operating Systems Lab	0	1	1
	TOTAL	18	15	29

FIFTH SEMESTER

Code No.	Paper	L	T/P	Credits
THEORY PAPERS				
BTECT310	Digital Circuits & Systems – II	3	1	4
BTECT311	Microprocessor Systems & Applications	3	1	4
BTCST311	Computer Architecture	3	1	4
BTECT312	Communication Systems & Circuits – II	3	1	4
BTECT313	Control Engineering	3	1	4
BTHUT303	Principle of Management and Organizational Behaviour	3	1	4
LAB/VIVA VOCE				
BTECL307	Digital Circuits & Systems – II Lab.	0	2	1
BTECL308	Microprocessor Lab.	0	2	1
BTECL309	Communication Systems & Circuits – II Lab.	0	2	1
BTECL310	Control Engineering Lab.	0	2	1
BTECP301	# Project work/practical training viva voce	0	1	1
	TOTAL	18	15	29

SIXTH SEMESTER

Code No.	Paper	L	T/P	Credits
THEORY PAPERS				
BTECT314	<u>Microwave Engineering</u>	3	1	4
BTCST206	Software Engineering	3	1	4
BTCST315	Computer Networks	3	1	4
BTECT315	VLSI Design	3	1	4
BTECT316	Telecommunication Networks	3	1	4
BTECT317	Digital Signal Processing and its applications	3	1	4
LAB/VIVA VOCE				
BTECL311	<u>Microwave Engineering Lab</u>	0	2	1
BTCCL205	Software Engineering Lab	0	2	1
BTECL312	VLSI Design Lab	0	2	1
BTECL313	Telecommunication Networks Lab	0	2	1
BTECL314	Digital Signal Processing Lab	0	2	1
BTHUL303	# Foreign Language	0	1	1
	TOTAL	18	17	30

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SEVENTH SEMESTER

Code No.	Paper	L	T/P	Credits
THEORY PAPERS				
BTECT401	Antennas & Wave Propagation	3	1	4
BTECT402	Television Engineering	3	1	4
BTCST403	Optical Fiber Communication	3	1	4
BTECT404	RADAR & Navigational aids	3	1	4
BTECT405	Total Quality Management	3	1	4
LAB/VIVA VOCE				
BTECL402	Television Engineering Lab	0	2	1
BTECL403	Optical Fiber Communication Lab	0	2	1
BTECL412	Electronic Circuit Design Lab/Mini Project	0	8	4
BTECL413	6 th Semester Practical Training			4
	TOTAL	15	17	30

EIGHTH SEMESTER

Code No.	Paper	L	T/P	Credits
THEORY PAPERS				
BTECT407	Micro Controller & Embedded systems	3	1	4
BTECT408	Cellular & Satellite Communication	3	1	4
BTECT409	Biomedical Electronics	3	1	4
BTECT410	Non-Conventional Electrical Power generation	3	1	4
BTECT411	Neural Networks & Fuzzy Logic	3	1	4
LAB/VIVA VOCE				
BTECL407	Micro Controller & embedded system Lab	0	2	1
BTECL412	Consumer Electronics Lab	0	2	1
BTECL414	Major Project	0	16	8
	TOTAL	15	25	30