

DETAILED SYLLABUS

for

**BACHELOR OF TECHNOLOGY
(Computer Science & Engineering)**

BACHELOR OF TECHNOLOGY
(B.TECH.) DEGREE COURSE (CSE)

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
BTMET101	Engineering Mechanics	3	0	3
BTCHT101	Engineering Chemistry	3	0	3
BTCST101	Introduction to Computers and IT Tools	3	0	3
BTECT101	Basic Electronics	3	1	4
BTHUT101	Professional Communication Skills in English -I	2	1	3
Practical /VIVA VOCE				
BTPHL101	Applied Physics Lab-I	0	2	1
BTMEL101	Engineering Mechanics Lab	0	2	1
BTCHL101	Engineering Chemistry Lab	0	2	1
BTCSL101	Automation Tools & Web designing Lab	0	2	1
BTECL101	Basic Electronics Lab	0	2	1
BTHUL101	#Community Service and Welfare	0	1	1
	TOTAL	20	15	30

SECOND SEMESTER (CSE)

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
BTMET102	Engineering Graphics	2	0	2
BTEET101	Basic Electrical Engineering	3	1	4
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
BTCST102	C Programming Lab	0	4	2
BTEEL101	Basic Electrical Engineering Lab	0	2	1
BTMEL102	Engineering Graphics Lab	0	4	2
BTMEL103	Manufacturing practices	0	3	1
BTHUL102	#Comparative Study of Religions	1	0	1
	TOTAL	18	22	31

BACHELOR OF TECHNOLOGY (Computer Science & Engineering)

THIRD SEMESTER

Code No.	Paper	L	T/P	Credits
THEORY PAPERS				
BTMAT203	Applied Mathematics III	3	1	4
BTECT202	Analog Electronics	3	1	4
BTECT204	Circuits and Systems	3	1	4
BTCST203	Foundations of Computer Science	3	1	4
BTCST204	Object Oriented Programming using C++	3	1	4
BTCST205	Data Structures	3	1	4
PRACTICAL/VIVA VOCE				
BTECL202	*Analog Electronics Lab.	0	2	1
BTECL203	*Circuits & Systems Lab.	0	2	1
BTCSL203	Object Oriented Programming using C++ Lab.	0	2	1
BTCSL204	Data Structure Lab.	0	2	1
TOTAL		18	14	28

FOURTH SEMESTER

Code No.	Paper	L	T/P	Credits
THEORY PAPERS				
BTCST206	Software Engineering	3	1	4
BTCST207	Algorithm Analysis & Design	3	1	4
BTECT206	Digital Circuits & System – I	3	1	4
BTECT207	Communication Systems	3	1	4
BTCST208	Computer Graphics	3	1	4
BTCST209	Operating Systems	3	1	4
PRACTICAL/VIVA VOCE				
BTCSL205	Software Engineering Lab.	0	2	1
BTCSL206	Algorithm Analysis and Design Lab.	0	2	1
BTECL205	*Digital Circuits & System – I Lab.	0	2	1
BTCSL207	Computer Graphics Lab.	0	2	1
BTCSL208	Operating system Lab	0	2	1
TOTAL		18	15	29

BACHELOR OF TECHNOLOGY (Computer Science & Engineering)

FIFTH SEMESTER

Code No.	Paper	L	T/P	Credits
THEORY PAPERS				
BTECT310	Digital Circuits & Systems – II	3	1	4
BTCST310	Java Programming and Website Design	3	1	4
BTCST311	Computer Architecture	3	1	4
BTCST312	Linux and X-Windows Programming	3	1	4
BTCST313	Database Management Systems	3	1	4
BTHUT303	Principle of Management and Organizational Behaviour	3	1	4
PRACTICAL/VIVA VOCE				
BTECL307	Digital Circuits & Systems – II Lab.	0	2	1
BTCSL309	Java Programming & Website Design Lab.	0	2	1
BTCSL310	Linux & X-Windows Programming Lab.	0	2	1
BTCSL311	Database Management Systems Lab.	0	2	1
BTCSP301	# Practical Training Viva	0	0	1
TOTAL		18	14	29

SIXTH SEMESTER

Code No.	Paper	L	T/P	Credits
THEORY PAPERS				
BTECT311	Microprocessor Systems	3	1	4
BTCST314	Object Oriented Software Engineering	3	1	4
BTCST315	Computer Networks	3	1	4
BTECT317	Digital Signal Processing & its applications	3	1	4
BTCST316	Data Warehousing & Data Mining	3	1	4
BTCST317	Multimedia Technologies	3	1	4
PRACTICAL/VIVA VOCE				
BTECL308	Microprocessor Lab.	0	2	1
BTCSL312	OO Software Engineering Lab	0	2	1
BTECL314	Digital Signal Processing Lab.	0	2	1
BTCSL313	Data Warehousing & Data Mining Lab.	0	2	1
BTCSL314	Multimedia Technologies Lab.	0	2	1
TOTAL		18	16	29

Computer Science & Engineering

B.Tech. (CSE) VII – Semester

Subject Code	Subject	L	T/P	Credits
Theory Papers				
BTCST401	Software Testing and Quality Assurance	3	1	4
BTCST402	Advance JAVA	3	1	4
BTCST403	Mobile Computing	3	1	4
BTCST404	Theory of Computations	3	1	4
BTCST405	Cryptography and Internet Security	3	1	4
LAB/VIVA VOCE				
BTCSL402	Advanced JAVA Lab	0	2	1
BTCSL401	Software Testing and Quality Assurance Lab	0	2	1
BTCSL412	Project	0	8	4
BTCSL413	6 th Semester Practical Training			4
Total		15	17	30

B.Tech. (CSE) VIII – Semester

Subject Code	Subject	L	T/P	Credits
Theory Papers				
BTCST406	Network Programming	3	1	4
BTCST407	Web Services	3	1	4
BTCST408	Artificial Intelligence	3	1	4
BTCST409	Parallel Computing	3	1	4
BTCST410	Emerging Technologies and Current IT Trends	3	1	4
LAB/VIVA VOCE				
BTCSL415	Network Programming Lab	0	2	1
BTCSL416	Web Services Lab	0	2	1
BTCSL417	Project	0	16	8
Total		15	25	30