



**COURSE STRUCTURE FOR FIRST YEAR B.TECH PROGRAMME
(FOR STUDENTS ADMITTED IN THE SESSION 2017-2018)
(Syllabus common to All Branches of Engineering)**

**FIRST SEMESTER
(SCHEME-I)**

Theory							
Sl. No.	Course Code	Subject	L	T	P	Total	Credit
1	MA 1001	Mathematics – I	3	1	0	4	4
2	CS 1001	Programming in C	3	0	0	3	3
3	PH 1003	Physics	3	1	0	4	4
4	ME 1001	Engg. Mechanics	3	1	0	4	4
5	EE 1003	Basic Electrical Engineering	3	0	0	3	3
Total of Theory						18	18
Practical							
1	CS 1091	Programming Lab in C	0	0	3	3	2
2	PH 1093	Physics Lab	0	0	3	3	2
3	EE 1093	Basic Electrical Engineering Lab	0	0	3	3	2
Sessional							
1	CE 1081	Engg. Graphics	0	0	3	3	2
Total of Practical & Sessional						12	8
Semester Total						30	26

**SECOND SEMESTER
(SCHEME-I)**

Theory							
Sl. No.	Course Code	Subject	L	T	P	Total	Credit
1	MA 1002	Mathematics – II	3	1	0	4	4
2	IT 1002	Object Oriented Programming	3	0	0	3	3
3	CH 1003	Chemistry	3	0	0	3	3
4	EC 1001	Basic Electronics	3	0	0	3	3
5	HS 1003	Professional Communication	2	0	0	2	2
6	CH 1005	Environmental Science	2	0	0	2	2
Total of Theory						17	17
Practical							
1	IT 1092	Object Oriented Programming Lab	0	0	3	3	2
2	CH 1093	Chemistry Lab	0	0	3	3	2
3	EC 1091	Basic Electronics Lab	0	0	3	3	2
Sessional							
1	ME 1081	Basic Manufacturing Systems	0	0	3	3	2
2	HS 1083	Language Lab	0	0	2	2	1
Total of Practical & Sessional						14	9
Semester Total						31	26
1	EAA1	Extra Academic Activity					P/NP



**FIRST SEMESTER
(SCHEME-II)**

Theory							
Sl. No.	Course Code	Subject	L	T	P	Total	Credit
1	MA 1001	Mathematics – I	3	1	0	4	4
2	CS 1001	Programming in C	3	0	0	3	3
3	CH 1003	Chemistry	3	0	0	3	3
4	EC 1001	Basic Electronics	3	0	0	3	3
5	HS 1003	Professional Communication	2	0	0	2	2
6	CH 1005	Environmental Science	2	0	0	2	2
Total of Theory						17	17
Practical							
1	CS 1091	Programming Lab in C	0	0	3	3	2
2	CH 1093	Chemistry Lab	0	0	3	3	2
3	EC 1091	Basic Electronics Lab	0	0	3	3	2
Sessional							
1	ME 1081	Basic Manufacturing Systems	0	0	3	3	2
2	HS 1083	Language Lab	0	0	2	2	1
Total of Practical & Sessional						14	9
Semester Total						31	26

**SECOND SEMESTER
(SCHEME-II)**

Theory							
Sl. No.	Course Code	Subject	L	T	P	Total	Credit
1	MA 1002	Mathematics – II	3	1	0	4	4
2	IT 1002	Object Oriented Programming	3	0	0	3	3
3	PH 1003	Physics	3	1	0	4	4
4	ME 1001	Engg. Mechanics	3	1	0	4	4
5	EE 1003	Basic Electrical Engineering	3	0	0	3	3
Total of Theory						18	18
Practical							
1	IT 1092	Object Oriented Programming Lab	0	0	3	3	2
2	PH 1093	Physics Lab	0	0	3	3	2
3	EE 1093	Basic Electrical Engineering Lab	0	0	3	3	2
Sessional							
1	CE 1081	Engg. Graphics	0	0	3	3	2
Total of Practical & Sessional						12	8
Semester Total						30	26
1	EAA1	Extra Academic Activity					P/NP

**COURSE STRUCTURE FOR B. TECH
IN COMPUTER SCIENCE & COMMUNICATION ENGINEERING
(SECOND YEAR TO FOURTH YEAR)**

SEMESTER-III

Theory							
Sl. No.	Subject Code	Course Title	L	T	P	Total	Credit
1	MA 2003	Discrete Mathematics	3	1	0	4	4
2	CS 2001	Data Structures & Algorithms	3	1	0	4	4
3	IT 2003	Web Technology	3	1	0	4	4
4	MA 2001	Mathematics-III	3	1	0	4	4
5	EC 2011	Digital Electronics	3	0	0	3	3
6	EC 2003	Signals & Systems	3	0	0	3	3
Total of Theory						22	22
Practical							
1	CS 2091	Data Structures Lab	0	0	3	3	2
2	IT 2093	Web Technology Lab	0	0	3	3	2
3	EC 2093	Digital Electronics Lab	0	0	3	3	2
Total of Practical						9	6
Semester Total						31	28

SEMESTER-IV

Theory							
Sl. No.	Subject Code	Course Title	L	T	P	Total	Credit
1	CS 2008	Design & Analysis of Algorithms	3	1	0	4	4
2	CS 2006	Computer Organization and Architecture	3	1	0	4	4
3	MA 2002	Mathematics- IV	3	1	0	4	4
4	CS 2004	Database Management Systems	3	1	0	4	4
5	EC 2016	Communication Engineering	3	1	0	4	4
Total of Theory						20	20
Practical							
1	CS 2096	Design & Analysis of Algorithms Lab	0	0	3	3	2
2	CS 2094	DBMS Lab	0	0	3	3	2
3	EC 2094	Communication Engineering Lab	0	0	3	3	2
Sessional							
1	HS 2081	Business Communication	0	0	3	3	2
Total of Practical & Sessional						12	8
Semester Total						32	28

SEMESTER-V

Theory							
Sl. No.	Subject Code	Course Title	L	T	P	Total	Credit
1	CS 3009	Operating Systems	3	1	0	4	4
2	IT 3003	Software Engineering	3	1	0	4	4
3	CS 3003	Formal Languages and Automata Theory	3	1	0	4	4
4	EC 3007	Digital Signal Processing	3	1	0	4	4
5		Dept Elective-I	3	0	0	3	3
6		Institute Elective – 1	3	0	0	3	3
7	HS 3003	Professional Ethics & Code of Conduct	1	0	0	1	1
Total of Theory						23	23
Practical							
1	CS 3091	Operating Systems Lab	0	0	3	3	2
2	EC 3097	Signal Processing Lab	0	0	3	3	2
Sessional							
1	TP 3081	Cognitive Aptitude Test-1	0	0	2	2	1
Total of Practical & Sessional						8	5
Semester Total						31	28

SEMESTER-VI

Theory							
Sl. No.	Subject Code	Course Title	L	T	P	Total	Credit
1	IT 3001	Computer Networks	3	1	0	4	4
2	CS 3002	Compiler Design	3	1	0	4	4
3	IT 3004	Object Oriented System Design	3	1	0	4	4
4	EC 3016	RF Communication	3	1	0	4	4
5		Open Elective-I	3	0	0	3	3
Total of Theory						19	19
Practical							
1	IT 3091	Computer Networks Lab	0	0	3	3	2
2	CS 3092	Compiler Design Lab	0	0	3	3	2
Sessional							
1	CC 3082	Minor Project	0	0	3	3	2
2	TP 3082	Cognitive Aptitude Test-II	0	0	2	2	1
Total of Practical & Sessional						11	7
Semester Total						30	26

SEMESTER-VII

Theory							
Sl. No.	Subject Code	Course Title	L	T	P	Total	Credit
1		Dept. Elective-II	3	0	0	3	3
2		Dept. Elective-III	3	0	0	3	3
3		Dept. Elective-IV	3	0	0	3	3
4		Institute Elective-II	3	0	0	3	3
5		Open Elective-II	3	0	0	3	3
6	HS 4003	Legal Issues & requirement in Engineering	1	0	0	1	1
Total of Theory						16	16
Sessional							
1	CC 4081	Project (Part I)	0	0	3	3	2
2	CC 4083	Practical Training	-	-	-	-	2
Total of Sessional						3	4
Semester Total						19	20

SEMESTER-VIII

Theory							
Sl. No.	Subject Code	Course Title	L	T	P	Total	Credit
1		Open Elective - III	3	0	0	3	3
2		Dept. Elective-V	3	0	0	3	3
Total of Theory						6	6
Sessional							
1	CC 4082	Project (Part II)	0	0	9	9	6
2	CC 4084	Seminar	0	0	3	3	2
3	CC 4086	General Viva Voce	-	-	-	-	2
Total of Sessional						12	10
Semester Total						18	16

LIST OF INSTITUTE ELECTIVES

Institute Elective - I

Sl. No	Subject Code	Subject Name	Credit
1	HS 2002	Engineering Economics	3
2	HS 2006	International Economics	3
3	HS 2004	Public Finance	3

Institute Elective – II

1	HS 3006	Entrepreneurship	3
2	HS 3008	Management Concepts & Practices	3
3	HS 3002	Organizational Behavior	3
4	HS 3004	Human Resource Management	3

LIST OF DEPARTMENTAL ELECTIVES

Dept. Elective - I

1	CS 3022	Parallel and Distributed Computing	3
2	EC 3027	Optical and Satellite Communication	3
3	CS 3032	Big Data	3
4	CS 3046	Introduction to Computer Graphics	3

Dept. Elective – II

1	CS 4027	Real-time Systems	3
2	IT 4021	Internet of Things	3
3	EC 4031	Mobile Communication Engg.	3
4	EC 6108	Digital Image Processing	3

Dept. Elective – III

1	CS 4031	Software Testing	3
2	CS 3034	Service Oriented Architecture	3
3	CS 4037	Human Computer Interaction	3
4	CS 3030	Computational Intelligence	3

Dept. Elective – IV

1	EC 6128	Wireless Sensor Networks	3
2	EC 3034	Industrial Data Networks	3
3	EC 3030	Adaptive Systems and Signal Processing	3
4	EC 4044	Information Theory & Coding	3

Dept. Elective – V

1	IT 4022	Cyber Law and Intellectual Property Right	3
2	IT 4026	Network Security	3
3	IT 4028	Cyber Security	3
4	EC 4046	Modern Digital Communication	3