B.Tech Computer Science & Engineering Curriculum - Batch 2016

Semester I

S.No	Course No	Course Name	Category	L-T-P-C
1	CS1100	Computational Engineering	BET	2-0-3-4
2	CY1010	Chemistry – I (Physical & Theoretical)	SCY	2-1-0-3
3	ID1100	Concepts in Engineering & Design	BET	3-0-0-3
4	MA1010	Mathematics-I	SMA	3-1-0-4
5	ME1120	Engineering Drawing	BES	1-0-3-3
6	PH1010	Physics-I	SPH	2-1-0-3
7	PH1030	Physics Lab	SPH	0-0-3-2
8	WS1010	Workshop-I	BES	0-0-3-2
			Total	**24**

Semester II

S.No	Course No	Course Name	Category	L-T-P-C
1	AM1100	Engineering Mechanics	BET	3-1-0-4
2	CY1020	Chemistry – II (Organic & Inorganic)	SCY	2-1-0-3
3	CY1030	Chemistry Lab	SCY	0-0-3-2
4	GN1100	Life skills	BES	2-0-0-2
5	ID1200	Ecology and Environment	BET	2-0-0-2
6	MA1020	Mathematics-II	SMA	3-1-0-4
7	ME1100	Thermodynamics	BET	2-1-0-3
8	PH1020	Physics – II	SPH	2-1-0-3
9	WS1020	Workshop – II	BES	0-0-3-2
			Total	**25**

Semester III

S.No	Course No	Course Name	Category	L-T-P-C
1	CS2100	Discrete Mathematics for Computer Science	PMT	3-0-0-3
2	CS2110	Computer Programming Lab	PML	0-0-3-2
3	EE2001	Digital Systems	PMT	3-1-0-4
4	EE2702	Digital Circuits Lab	PML	0-0-3-2
5	EE1100	Basic Electrical Engineering	BET	3-0-0-3
6	BT1010	Life Sciences	SLS	2-0-0-2
7	MAE1	Mathematics Elective 1	SMA	3-0-0-3
8	HSE1	Humanities Elective 1	HSS	3-0-0-3
			Total	**22**

Semester IV

S.No	Course No	Course Name	Cat	L-T-P-C
1	CS2200	Theory of Computation	PMT	3-0-0-3
2	CS2600	Computer Organization	PMT	3-0-0-3
3	CS2610	Assembly Language Programming Lab	PML	0-0-3-2
4	CS2800	Data structures and Algorithms	PMT	3-1-0-4
5	CS2810	Advanced Programming Lab	PML	0-0-3-2
6	CS3100	Paradigms of Programming	PMT	3-1-0-4
7	MAE2	Mathematics Elective 2	SMA	3-0-0-3
8	HSE2	Humanities Elective 2	HSS	3-0-0-3
			Total	**24**

Semester V

S.No	Course No	Course Name	Category	L-T-P-C
1	CS3400	Software Engineering	PMT	3-0-0-3
2	CS3300	Compiler Design	PMT	3-0-0-3
3	CS3310	Compiler Design Lab	PML	0-0-3-2
4	CS3500	Operating Systems	PMT	3-0-0-3
5	CS3510	Operating Systems Lab	PML	0-0-3-2
6	CS3700	Database Systems	PMT	3-1-0-4
7	CS3101	Design and Analysis of Algorithms	PMT	3-0-0-3
8	FRE1	Free Elective 1	FRE	3-0-0-3
			Total	23

Semester VI

S.No	Course No	Course Name	Category	L-T-P-C
1	CS3200	Computer Networks	PMT	3-0-0-3
2	CS3210	Computer Networks Lab	PML	0-0-3-2
3	CS3XXX	Artificial Intelligence	PMT	3-0-0-3
4	CS3XXX	Machine Learning	PMT	2-0-3-4
5	CS3410	Software Engineering Lab	PML	0-0-3-2
6	DPE1	Department Elective 1	PMT	3-0-0-3
7	FRE2	Free Elective 2	FRE	3-0-0-3
8	FRE3	Free Elective 3	FRE	3-0-0-3
9	CS3660	Industrial/ Research Internship	PIT	- - - 2
			Total	25

Semester VII

S.No	Course No	Course Name	Category	L-T-P-C
1	CS4100	Computer System Design	PMT	3-0-0-3
2	CS4110	Computer System Design Lab	PML	0-0-3-2
3	DPE2	Department Elective 2	PMT	3-0-0-3
4	FRE4	Free Elective 4	FRE	3-0-0-3
5	HSE3	Humanities Elective 3	HSS	3-0-0-3
6	CS4700	Project I	PMP	- - - 2
7	CS4880	Industrial Lecture	PIL	1-0-0-1
			Total	17

Semester VIII

S.No	Course No	Course Name	Cat	L-T-P-C
1	CS4800	Project II	PMP	- - - 6
2	DPE3	Department Elective 3	PMT	3-0-0-3
3	HS3050	Professional Ethics	HPE	2-0-0-2
			Total	11

Total Credits 171