

**B.Tech Curriculum - Computer Science and Engineering
For Academic Year 2018-19**

Semester - I

S.No	Course No	Course Name	Category	L-T-P-C
1.	ES1101/ EA1101	Computational Engineering/ Engineering Drawing	BET/ BES	2-0-3-4 1-0-3-3
2.	CY1101 / CY1202	Physical and Theoretical Chemistry / Organic and Inorganic Chemistry	SCY	2-1-0-3
3.	ID1101	Concepts in Engineering and Design	BET	1-0-2-2
4.	MA1101	Calculus	SMA	3-1-0-4
5.	PH1101	Introduction to Classical Mechanics	SPH	2-1-0-3
6.	PH1103/CY1204	Physics Laboratory/Chemistry Laboratory	SPH/SCY	0-0-3-2
7.	EA1103	Workshop-I	BES	0-0-3-2
8.	HS1101/ HS1103/ HS1105/ HS1107	Language Course (Pass/Fail)	HPF	2-0-0-2
Total				22/21

Semester - II

S.No	Course No	Course Name	Category	L-T-P-C
1.	ES1101/ EA1101	Computational Engineering/ Engineering Drawing	BET/ BES	2-0-3-4 1-0-3-3
2.	CY1101/ CY1202	Physical and Theoretical Chemistry Organic and Inorganic Chemistry	SCY	2-1-0-3
3.	ES1201	Basic Electrical Engineering	BET	3-0-0-3
4.	MA1202	Differential Equations and Matrices	SMA	3-1-0-4
5.	PH1202	Introduction to Electrodynamics and Quantum Mechanics	SPH	2-1-0-3
6.	PH1103/CY1204	Physics Laboratory / Chemistry Laboratory	SPH/SCY	0-0-3-2
7.	EA1202	Workshop-II	BES	0-0-3-2
Total				20/21

Semester - III

S.No	Course No	Course Name	Category	L-T-P-C
1.	CS/EE2101	Digital Systems	PMT	3-1-0-4
2.	CS2103	Discrete Mathematics for Computer Science	PMT	3-0-0-3
3.	CS2105	Programming Methodology	PMT	2-0-3-4
4.	CS/EE2191	Digital Systems Laboratory	PML	0-0-3-2
5.	ES2101	Engineering Mechanics	BET	3-1-0-4
6.	ES2103	Ecology and Environment	BET	2-0-0-2
7.	HSE1	Humanities Elective-1	HSS	3-0-0-3
8.	MA2021	Linear Algebra	SMA	3-0-0-3
Total				25

Semester - IV

S.No	Course No	Course Name	Category	L-T-P-C
1.	BS2101	Life Sciences	SLS	2-0-0-2
2.	CS2202	Theory of Computation	PMT	3-0-0-3
3.	CS2204	Computer Organization	PMT	3-0-0-3
4.	CS2206	Data Structures and Algorithms	PMT	3-1-0-4
5.	CS2292	Computer Organization Laboratory	PML	0-0-3-2
6.	CS2294	Data Structures and Algorithms Laboratory	PML	0-0-3-2
7.	HSE2	Humanities Elective-2	HSS	3-0-0-3
8.	MA2023	Probability and Statistics	SMA	3-0-0-3
Total				22

Semester - V

S.No	Course No	Course Name	Category	L-T-P-C
1.	CS3101	Design and Analysis of Algorithms	PMT	3-0-0-3
2.	CS3103	Compiler Design	PMT	3-0-0-3
3.	CS3105	Software Engineering	PMT	3-0-0-3
4.	CS3107	Operating Systems	PMT	3-0-0-3
5.	CS3109	Machine Learning	PMT	3-0-0-3
6.	CS3191	Compiler Design Laboratory	PML	0-0-3-2
7.	CS3193	Operating Systems Laboratory	PML	0-0-3-2
8.	FRE1	Free Elective-1	FRE	3-0-0-3
Total				22

Semester - VI

S.No	Course No	Course Name	Category	L-T-P-C
1.	CS3202	Computer Networks	PMT	3-0-0-3
2.	CS3204	Artificial Intelligence	PMT	3-0-0-3
3.	CS3206	Database Systems	PMT	3-0-2-4
4.	CS3292	Computer Networks Laboratory	PML	0-0-3-2
5.	CS3294	Software Engineering Laboratory	PML	0-0-3-2
6.	CS3296	Intelligent Systems Laboratory	PML	0-0-3-2
7.	HSE3	Humanities Elective-3	HSS	3-0-0-3
8.	FRE2	Free Elective-2	FRE	3-0-0-3
Summer				
9.	IT3202	Industrial/Research Internship	PIT	--- 2
Total				24

Semester - VII

S.No	Course No	Course Name	Category	L-T-P-C
1.	CS4101	Computer System Design	PMT	3-0-0-3
2.	CS4150	Project Phase-I	PMP	--- 2
3.	CS4191	Computer System Design Laboratory	PML	0-0-3-2
4.	DPE1	Department Elective-1	PMT	3-0-0-3
5.	DPE2	Department Elective-2	PMT	3-0-0-3
6.	FRE3	Free Elective-3	FRE	3-0-0-3
7.	IL4101	Industrial Lecture	PIL	1-0-0-1
Total				17

Semester - VIII

S.No	Course No	Course Name	Category	L-T-P-C
1.	CS4250	Project Phase-II	PMP	--- 7
2.	DPE3	Department Elective-3	PMT	3-0-0-3
3.	DPE4	Department Elective-4	PMT	3-0-0-3
4.	HS4202	Professional Ethics	HPE	2-0-0-2
Total				15

Total Credits - 167