4 year B. Tech. degree Course - CSE w.e.f. 2018-19 Batch

FIRST SEMESTER

Sr. No.	Course No.	Title	L	T	P	Total	Credits
1.	15B11MA111	Mathematics-1	3	1	-	4	4
2.	15B11PH111	Physics-1	3	1	-	4	4
3.	15B11CI111	Software Development Fundamentals-I	3	1	-	4	4
4.	15B11HS112	English	2	1	-	3	3
5.	15B17PH171	Physics Lab-1	-	-	2	2	1
6.	15B17CI171	Software Development Lab-I	-	-	4	4	2
7.	18B15GE111	Engineering Drawing & Design			3	3	1.5
		TOTAL				24	19.5

SECOND SEMESTER

Sr. No.	Course No.	Title	L	T	P	Total	Credits
1.	15B11MA211	Mathematics-2	3	1	-	4	4
2.	15B11PH211	Physics-2	3	1	-	4	4
3.	15B11EC111	Electrical Science-I	3	1	-	4	4
4.	15B11CI211	Software Development Fundamentals-II	3	1	-	4	4
5.	15B17PH271	Physics Lab-2	-	-	2	2	1
6.	15B17EC171	Electrical Science Lab-I	-	-	2	2	1
7.	15B17CI271	Software Development Lab-II	-	-	2	2	1
8.	18B15GE112	Workshop			3	3	1.5
		TOTAL				25	20.5

THIRD SEMESTER

Sr. No.	Course No.	Title	L	T	P	Total	Credits
1.	15B11CI212	Theoretical Foundations of Computer Science	3	1	-	4	4
2.	15B11CI312	Database Systems and Web	3	1	-	4	4
3.	15B11CI311	Data Structures	3	1	-	4	4
4.	15B17CI371	Data Structures Lab	-	-	4	4	2
5.	15B17CI372	Database Systems and Web Lab	-	-	2	2	1
6.	15B11EC211	Electrical Science-II	3	1	-	4	4
7.	15B17EC271	Electrical Science Lab-II	-	-	2	2	1
8.	15B11HS211	Economics	2	1	-	3	3
		TOTAL				27	23

FOURTH SEMESTER

Sr. No.	Course No.	Title	L	T	P	Total	Credits
1.	Xxxxx	HSS Elective - 1	2	1	-	3	3
2.	15B11MA301	Probability and Random Processes	3	1	-	4	4
3.	18B11EC213	Digital Systems	3	1	-	4	4
4.	15B11CI313	Computer Organisation and Architecture	3	1	-	4	4
5.	15B11GE301	Environmental Science	3	-	-	3	Qualifying
6.	18B15EC213	Digital Systems Lab	-	-	2	2	1
7.	15B17CI373	Computer Organisation and Architecture Lab	-	-	2	2	1
8	15B11HS111	Life Skills				2	2
		TOTAL				24	19

FIFTH SEMESTER

Sr. No.	Course No.	Title	L	T	P	Total	Credits
1.	Xxxxx	HSS Elective-2	3		-	3	3
2.	15B11CI411	Algorithms and Problem Solving	3		-	3	3
3.	Xxxxx	Discipline Elective -1	3	-	-	3	3
4.	Xxxxx	Science Elective	3	-	-	3	3
5.	15B19CI591	Minor Project – 1			4	4	2
6.	15B17CI471	Algorithms and Problem Solving Lab	-	-	2	2	1
7.	15B17CI472	Operating Systems and Systems Programming Lab	-	-	2	2	1
8.	15B17CI575	Open Source Software lab	-	-	2	2	1
9	15B11CI412	Operating Systems and Systems Programming	3	1	-	4	4
10	15B17CI576	Information Security Lab	-	-	2	2	1
11	18B12HS311	Indian Constitution & Traditional Knowledge	3	-	-	3	Qualifying
		TOTAL				31	22

SIXTH SEMESTER

Sr. No.	Course No.	Title	L	T	P	Total	Credits
1.	18B11CS311	Computer Networks and Internet of Things	3		-	3	3
2.	Xxxxx	Discipline Elective – 2(*)	3	-	-	3	3
3.	Xxxxx	Discipline Elective - 3	3	-	-	3	3
4.	Xxxxx	Open Elective - 1	3			3	3
		Selected Value Added Course	2			2	Audit
5.	18B15CS311	Computer Networks and Internet of Things Lab	-	-	2	2	1
6.	15B19CI691	Minor Project-2	-	-	4	4	2
7	15B11CI513 OR 15B11CI514	Software Engineering OR Artificial Intelligence	3	1	-	4	4
8	15B17CI573 OR 15B17CI574	Software Engineering Lab OR Artificial Intelligence Lab	-	-	2	2	1
9	Xxxxx	HSS Elective - 3	2	1	-	3	3
		TOTAL				27/29	23

1. Students may opt to study Selected Foreign Language during 5th semester as an additional course of 2 credits not to be counted towards CGPA calculation. Those who qualify will be provided with additional certificate.
2. All students will undergo Value Added Course, however it will not count for CGPA calculations and will not be reflected in transcript of those students who fail to qualify. Those who qualify will be provided with additional certificate.
3. Students will undergo 6 weeks Industrial Training during Summer Vacation after 6th Semester.

SEVENTH SEMESTER

Sr. No.	Course No.	Title	L	T	P	Total	Credits
1.	Xxxxx	Discipline Elective – 4(**)	3			3	3
2.	Xxxxx	Discipline Elective – 5	3			3	3
3.	Xxxxx	Discipline Elective - 6	3	-	-	3	3
4.	Xxxxx	Open Elective - 2	3		-	3	3
5.	15B19CI791	Major Project Part-1	-	-	8	8	4
6	15B19CI793	Summer Training Viva	-	-	-	-	Qualifying
		TOTAL				20	16

EIGHTH SEMESTER

Sr.	Course		Contact Hours				Credits
No.	No.	Title	L	T	P	Total	
1.	Xxxxx	Discipline Elective – 7	3			3	3
2.	Xxxxx	Discipline Elective - 8	3			3	3
3.	Xxxxx	Open Elective -3	3		-	3	3
4.	15B19CI891	Major Project Part-2	-	-	16	16	8
		TOTAL				25	17

Total Credits for B. Tech. –160

(*)
1. 18B12CS315   Computational Mathematics for Data Analytics
2. 18B12CS316   Computational Mathematics for Artificial Intelligence
3. 18B12CS317   Fundamentals of Computer and Information Security
4. 16B1NCI644   Cloud based Enterprise Applications
5. 18B12CS318   Artificial Intelligence Programming
6. 18B12CS319   IoT Programming
7. 18B12CS320   Big Data Storage, Infrastructure and Technologies
8. 18B12CS322   Artificial Intelligence and Robotics
9. 18B12CS323   Computer Architecture for Artificial Intelligence
10. 18B12CS324   Intelligent Database Systems

(**)
1. 18B12CS442   Data and Web Analytics
2. 18B12CS443   Distributed Artificial Intelligence
3. 18B12CS444   Software Security
4. 17B1NCI747   Cloud Computing
5. 18B12CS445   Big Data Systems Engineering
6. 17B1NCI731   Machine Learning and Natural Language Processing
7. 18B12CS446   Embedded and IoT Systems Engineering
8. 18B12CS447   Artificial Intelligence for Software Engineering
9. 18B12CS448   Cloud based Intelligent Systems Engineering
10. 18B12CS449   Intelligent Operating Systems