

12.05.18

**4 year B. Tech. degree Course - IT w.e.f. 2018-19 Batch****FIRST SEMESTER**

Sr No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
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 / 18B15GE112	Engineering Drawing & Design/ Workshop			3	3	1.5
		<b>TOTAL</b>				24	19.5

**SECOND SEMESTER**

Sr No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	15B11MA211	Mathematics-2	3	1	-	4	4
2.	15B11PH211	Physics-2	3	1	-	4	4
3.	18B17EC214	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 / 18B15GE111	Workshop/ Engineering Drawing & Design			3	3	1.5
		<b>TOTAL</b>				25	20.5

**THIRD SEMESTER**

Sr. No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	15B11CI212	Theoretical Foundations of Computer Science	3	1	-	4	4
2.	15B11CI312	Database Systems and Web	3	1	-	4	4
3.	18B11CS211	Data Structures and Algorithms	3	1	-	4	4
4.	18B15CS211	Data Structures and Algorithms 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
		<b>TOTAL</b>				27	23

### FOURTH SEMESTER

Sr. No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxx	HSS Elective - 1	2	1	-	3	3
2.	15B11MA412	Probability and Statistics	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		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxxx	HSS Elective-2	3		-	3	3
2.	18B11CS212	Computer Networks and Security	3		-	3	3
3.	Xxxxxx	Discipline Elective -1	3	-	-	3	3
4.	Xxxxxx	Science Elective	3	-	-	3	3
5.	15B29CI591	Minor Project – 1			4	4	2
6.	18B15CS212	Computer Networks and Security 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.	15B28CI582	Multimedia Lab	-	-	2	2	1
11.	18B12HS311	Indian Constitution & Traditional Knowledge	3	-	-	3	Qualifying
		TOTAL				31	22

### SIXTH SEMESTER

Sr. No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	15B22CI521	Cloud based Enterprise Systems	3		-	3	3
2.	Xxxxxx	Discipline Elective – 2(*)	3	-	-	3	3
3.	Xxxxxx	Discipline Elective - 3	3	-	-	3	3
4.	Xxxxxx	Open Elective - 1	3			3	3
		Selected Value Added Course	2			2	Audit
5.	15B28CI581	Cloud based Enterprise Systems Lab	-	-	2	2	1
6.	15B29CI691	Minor Project-2	-	-	4	4	2
7	15B22CI621 OR 15B22CI622	Data Mining and Web Algorithms OR Mobile Applications and Internet of Things	3	1	-	4	4
8	15B28CI681 OR 15B28CI682	Data Mining and Web Algorithms Lab OR Mobile Applications and Internet of Things Lab	-	-	2	2	1
9	Xxxxxx	HSS Elective - 3	2	1	-	3	3
		TOTAL				27/ 29	23

1. Students may opt to study Selected Foreign Language during 5<sup>th</sup> 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		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxxx	Discipline Elective – 4(**)	3			3	3
2.	Xxxxxx	Discipline Elective – 5	3			3	3
3.	Xxxxxx	Discipline Elective - 6	3	-	-	3	3
4.	Xxxxxx	Open Elective - 2	3		-	3	3
5.	15B29CI791	Major Project Part-1	-	-	8	8	4
6		Summer Training Viva	-	-	-	-	Qualifying
		TOTAL				20	16

## EIGHTH SEMESTER

Sr. No.	Course		Contact Hours				Credits
	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.	15B29CI891	Major Project Part-2	-	-	16	16	8
		TOTAL				25	17

**Total Credits for B. Tech. –160**

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1. 18B12CS316 Computational Mathematics for Artificial Intelligence
2. 18B12CS318 Artificial Intelligence Programming
3. 18B12CS320 Big Data Storage, Infrastructure and Technologies
4. 18B12CS322 Artificial Intelligence and Robotics
5. 18B12CS323 Computer Architecture for Artificial Intelligence
6. 18B12CS324 Intelligent Database Systems

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