

First Semester

Sl No.	Code	Course Title	L	T	P	Credits	Dept.	Type
1	HS1401	Science, Society and Ethical values	2	1	0	3	HSS	FC
2	MA1401	Engineering Mathematics I	3	0	0	3	MA	FC
3	CH1401	Engineering Chemistry	3	0	0	3	CH	FC
4	CHL1401	Chemistry Lab	0	0	3	1	CH	FL
5	EC1401	Elements of Electronics Engineering	3	0	0	3	ECE	FC
6	ECL1401	EC Workshop	0	0	3	1	ECE	FL
7	CS1401	Introduction to computing	3	0	0	3	CSE	FC
8	CSL1401	Computing lab	0	0	3	1	CSE	FL
9	MEL1401	Engineering Graphics Lab	0	0	3	1	ME	FL
10	EAA1401	EAA-Sports/Innovative project	0	0	3	1	CSE/IC/S AC	EA
Total			14	1	15	20		

Contact Hours: 30

Second Semester

Sl No.	Code	Course Title	L	T	P	Credits	Dept.	Type
1	HS2401	Communicative English	3	0	0	3	HSS	FC
2	HSL2401	Language lab	0	0	3	1	HSS	FL
3	MA2401	Engineering Mathematics II	3	0	0	3	MA	FC
4	PH2401	Engineering Physics	3	0	0	3	PH	FC
5	PHL2401	Physics Lab	0	0	3	1	PH	FL
6	EE2401	Elements of Electrical Engineering	3	0	0	3	EE	FC
7	EEL2401	EE Workshop	0	0	3	1	EE	FL
8	CS2401	Object Oriented Programming	3	0	0	3	CSE	PC
9	CSL2401	Object Oriented Programming Lab	0	0	3	1	CSE	PL
10	MEL2401	Workshop practice	0	0	3	1	ME	FL
11	EAA2401	EAA-Swachha Bharat Mission (SBM)	0	0	3	1	CSE/SAC	EA
Total			15	0	18	21		

Contact Hours: 33

Third Semester

Sl No.	Code	Course Title	L	T	P	Credits	Type
1	CS3401	Data Structures	3	1	0	4	PC
2	CSL3401	Data Structures Lab	0	0	3	1	PL
3	EC34XX	Digital Logic and Computer Organization	3	0	0	3	FC
4	ECL34XX	Digital Logic and Computer Organization Lab	0	0	3	1	FL
5	CS3402	Discrete Mathematics and Graph Theory	3	1	0	4	PC
6	CS3403	Web Technology	3	0	0	3	PC
7	CSL3403	Web Technology Lab	0	0	3	1	PL
8	MA34XX	Probability & Statistics	3	0	0	3	FC
9	CE34XX	Environmental Engineering	3	0	0	3	FC
		Total	18	2	9	23	

Contact Hours: 26

Fourth Semester

Sl No.	Code	Course Title	L	T	P	Credits	Type
1	CS44XX	Professional Elective I	3	0	0	3	PE
2	CS4401	Computer Architecture	3	0	0	3	PC
3	XX44XX	Open Elective I/MOOCs	3	0	0	3	OE
4	CS4402	Formal Languages & Automata Theory	3	1	0	4	PC
5	CS4403	Design & Analysis of Algorithms	3	1	0	4	PC
6	CSL4403	Design & Analysis of Algorithms Lab	0	0	3	1	PL
7	CS4404	Operating Systems	3	1	0	4	PC
8	CSL4404	Operating Systems lab	0	0	3	1	PL
		Total	18	3	6	23	

Contact Hours: 27

Fifth Semester

Sl No.	Code	Course Title	L	T	P	Credits	Type
1	CS5401	Database Management Systems	3	1	0	4	PC
2	CSL5401	Database Management Systems Lab	0	0	3	1	PL
3	CS5402	Artificial Intelligence	3	0	0	3	PC
4	CSL5402	Artificial Intelligence Lab	0	0	3	1	PL
5	XX54XX	Open Elective IV / MOOCS	3	0	0	3	OE
6	CS54XX	Professional Elective II	3	0	0	3	PE
7	CS5403	Computer Networks	3	1	0	4	PC
8	CSL5403	Computer Networks lab	0	0	3	1	PL
9	CS5404	Compiler Design	3	0	0	3	PC
10	CSL5404	Compiler Design Lab	0	0	3	1	PL
		Total	18	2	12	24	

Contact Hours: 32

Sixth Semester

Sl No.	Code	Course Title	L	T	P	Credits	Type
1	CS6401	Computer Graphics	3	0	0	3	PC
2	CSL6401	Computer Graphics Lab	0	0	3	1	PL
3	XX64XX	Open Elective II/ MOOCS	3	0	0	3	OE
4	CS6402	Software Engineering	3	0	0	3	PC
5	CSL6402	Software Engineering Lab	0	0	3	1	PL
6	CS6403	Data Mining & Warehousing	3	1	0	4	PC
7	CS6404	Information Security	3	0	0	3	PC
8	CS64XX	Professional Elective III	3	0	0	3	PE
9	CS6490	Minor Project I				6	Oth
		Total	18	1	6	27	

Contact Hours: 25

Seventh Semester

Sl No.	Code	Course Title	L	T	P	Credits	Type
1	CS74XX	Professional Elective IV	3	0	0	3	PE
2	CS7401	IOT	3	0	0	3	PC
3	CSL7401	IOT lab	0	0	3	1	PL
4	CS74XX	Professional Elective V	3	0	0	3	PE
5	XX74XX	Open Elective III / MOOCS	3	0	0	3	OE
6	CS7491	Minor Project II				6	Oth
7	CS7492	Industrial Training (4 to 6 weeks after 6th Sem)				1	Oth
8	CS7493	Seminar and Technical writing				1	Oth
		Total	12	0	3	21	

Contact Hours: 15

Eighth Semester

Sl No.	Code	Course Title	L	T	P	Credits	Type
1	CS84XX	Professional Elective VI	3	0	0	3	PE
3	CSL8494	Major Project & Comprehensive Viva				12	Oth
		Total	3	0	0	15	

Contact Hours: 3

		Overall Credit Summary								
Semester		FC	FL	PC	PL	PE	OE	EA	Oth	Total
1	#Courses	5	4	0	0	0	0	1	0	10
	#Credits	15	4	0	0	0	0	1	0	20
2	#Courses	4	4	1	1	0	0	1	0	11
	#Credits	12	4	3	1	0	0	1	0	21
3	#Courses	3	1	3	2	0	0	0	0	9
	#Credits	9	1	11	2	0	0	0	0	23
4	#Courses	0	0	4	2	1	1	0	0	8
	#Credits	0	0	15	2	3	3	0	0	23
5	#Courses	0	0	4	4	1	1	0	0	10
	#Credits	0	0	14	4	3	3	0	0	24
6	#Courses	0	0	4	2	1	1	0	1	9
	#Credits	0	0	13	2	3	3	0	6	27
7	#Courses	0	0	1	1	2	1	0	3	8
	#Credits	0	0	3	1	6	3	0	8	21
8	#Courses	0	0	0	0	1	0	0	1	2
	#Credits	0	0	0	0	3	0	0	12	15
Total	#Courses	<b>12</b>	<b>9</b>	<b>17</b>	<b>12</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>5</b>	<b>67</b>
	#Credits	<b>36</b>	<b>9</b>	<b>59</b>	<b>12</b>	<b>18</b>	<b>12</b>	<b>2</b>	<b>26</b>	<b>174</b>

**Common Elective Pool for B.Tech CSE**

<b>Sl. No</b>	<b>Code</b>	<b>Description</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	CSX430	Semantic Web	3	0	0	3
2	CSX431	Natural Language Processing	3	0	0	3
3	CSX432	Computational Intelligence	3	0	0	3
4	CSX433	Pattern Recognition and Machine Learning	3	0	0	3
5	CSX434	Mobile and Web Applications	3	0	0	3
6	CSX435	E-Governance	3	0	0	3
7	CSX436	Cryptography	3	0	0	3
8	CSX437	Distributed Database Systems	3	0	0	3
9	CSX438	Computational Geometry	3	0	0	3
10	CSX439	Machine Learning	3	0	0	3
11	CSX440	Operations Research	3	0	0	3
12	CSX441	Digital Image Processing	3	0	0	3
13	CSX442	Intrusion Detection	3	0	0	3
14	CSX443	Computational Biology	3	0	0	3
15	CSX444	Real Time Systems	3	0	0	3
16	CSX445	Distributed Algorithms	3	0	0	3
17	CSX446	Advanced Algorithms	3	0	0	3
18	CSX447	Computer Vision	3	0	0	3
19	CSX448	Text Mining	3	0	0	3
20	CSX449	Data Science	3	0	0	3
21	CSX450	Social Networks	3	0	0	3
22	CSX451	Big Data	3	0	0	3
23	CSX452	Recommendation Systems	3	0	0	3
24	CSX453	Network Security	3	0	0	3
25	CSX454	Distributed Event Based Systems	3	0	0	3
26	CSX455	Approximation Algorithms	3	0	0	3
27	CSX456	Advanced Data Mining	3	0	0	3
28	CSX457	Cloud Computing	3	0	0	3
29	CSX458	Wireless Sensor Networks	3	0	0	3
30	CSX459	Web Mining	3	0	0	3
31	CSX460	Object Oriented Systems Development	3	0	0	3
32	CSX461	Wireless Networks	3	0	0	3
33	CSX462	Mobile Communication	3	0	0	3
34	CSX463	Artificial Intelligence Fundamentals	3	0	0	3
35	CSX464	Cyber Security	3	0	0	3