

Computer Science and Engineering

Semester - I (Common for all B.Tech Courses)

S.N	C. Code	Course	L	T	P	C
1	MA 101	Calculus	3	1	0	8
2	PH 101	Quantum Physics and Applications	2	1	0	6
3	CH 102	Fundamental Concepts and Applications of Chemistry	3	0	0	6
4	BB 103	Introduction to Modern biology	3	0	0	6
5	PH 113	Hands on Science Laboratory - I	0	0	3	3
6	CS 101	Computer Programming	3	0	2	8
7	HS 103	Introduction to Fine Arts	0	0	1	PP/NP
8	HS 106	Design Thinking and Creativity	1	0	0	PP/NP
9	NO107/NO105	NSO/NSS	0	0	2	2
First Semester Total Credits						37

Semester - II

S.N	Course Code	Course Name	L	T	P	C
1	MA 102	Linear Algebra (1st Half)	3	1	0	4
2	MA 103	Differential Equations - I (2nd Half)	3	1	0	4
3	ME 111	Engineering Graphics Laboratory	1	0	3	5
4	EE 101	Introduction to Electrical Systems and Electronics	3	0	0	6
5	CS 201	Data Structures and Algorithms	3	0	0	6
6	CS 211	Data Structures and Algorithms Laboratory	0	0	3	3
7	ME 113	Hands on Engineering Laboratory	0	0	3	3
8	PH 102	Electricity and magnetism	2	1	0	6
9	NO 105/ NO 107	National Sports Organization (NSO)/National Service Scheme (NSS)	1	0	0	2
Total Credits						37

Semester III

S.N	Course code	Course name	L	T	P	C
1	CS 205	Design and analysis of algorithms	3	0	0	6
2	CS 203	Discrete structures	3	0	0	6
3	EE 221	Introduction to Probability (1st Half)	3	0	0	3
4	EE 227	Data Analysis (2nd Half)	3	0	0	3
5	HS 201	Economics	3	0	0	6
6	CS 213	Software Systems Lab	1	3	0	8

Total credits							32
Semester IV							
S.N	Course code	Course name	L	T	P	C	
1	CS 202	Automata theory	3	1	0	8	
2	CS 209	Artificial intelligence	3	0	0	6	
3	CS 301	Computer Architecture	3	0	0	6	
4	EE 204	Digital systems	3	0	0	6	
5	EE 214	Digital Circuits Lab	3	0	0	3	
6	CS 214	Artificial intelligence lab	0	0	3	3	
7	CS 311	Computer Architecture lab	0	0	3	3	
Total credits							35
Semester V							
S.N	Course code	Course name	L	T	P	C	
1	CS303T	Operating systems	3	0	0	6	
2	CS205T	Data bases and information systems	3	0	0	6	
3		Elective I / R&D I#	3	0	0	6	
4		Elective II	3	0	0	6	
5		HSS Elective 1*	3	0	0	6	
6	CS302L	Operating systems lab	0	0	3	3	
7	CS202L	Data bases and information systems laboratory	0	0	3	3	
Total credits							36
Semester VI							
S.N	Course code	Course name	L	T	P	C	
1	CS305T	Computer networks	3	0	0	6	
2	CS304T	Compilers	3	0	0	6	
3	CS304L	Compilers lab	0	0	3	3	
4	CS303L	Computer networks lab	0	0	3	3	
5		HSS Elective II*	3	0	0	6	
6	CE301T	Environmental studies	3	0	0	6	
7		Elective III / R&D I/II#	3	0	0	6	
Total credits							36
Semester VII							
S.N	Course Code	Course Name	L	T	P	C	
1		Elective IV				6	
2		Elective V				6	

3		Elective VI				6
		Elective VII / BTP#				6
Total credits						24
Semester VIII						
S.N	Course Code	Course Name	L	T	P	C
1		Elective VIII				6
2		Elective IX				6
3		Elective X/ BTP#				6
Total credits						18
Overall Credits Required (Minimum)						255