

Curriculum Structure for UG Computer Science and Engineering (applicable for batch entered into 2023-24)

Curriculum Structure for UG Computer Science and Engineering (applicable for batch entered into 2023-24)															
	F.Y.	B.Tech. CSE AY 2023-24 onwards													
Sr. No.	Sem	NEP Category	EP Categor	Code	Course Name	L	T	P	Hr	Cr	ISE/LA	ISE/LA2	ESE	OE	POE
1	1	Basic Science Course	BSC	7MA101	Engineering Mathematics-I	3	1	0	4	4	30	20	50		
2	1	Basic Science Course	BSC	7PH103	Engineering Physics	3	0	0	3	3	30	20	50		
3	1	Engineering Science Course	ESC	7AM104	Engineering Mechanics	2	0	0	2	2	30	20	50		
4	1	Engineering Science Course	ESC	7CM106	Civil & Mechanical Engineering	3	0	0	3	3	30	20	50		
5	1	Ability Enhancement Course	AEC	7HS101	Communication & Generic Skills	1	0	2	3	2	30	30	40		
6	1	Basic Science Course	BSC	7PH155	Engineering Physics Lab	0	0	2	2	1	30	30	40		
7	1	Engineering Science Course	ESC	7AM155	Engineering Mechanics Lab	0	0	2	2	1	30	30	40		
8	1	Engineering Science Course	ESC	7CM156	Civil & Mechanical Engineering Lab	0	0	2	2	1	30	30	40		
9	1	Professinal Core Course	PCC	7CS101	Computer and network Essensisal	3	0	0	3	3	30	20	50		
10	1	Professinal Core Course	PCC	7CS151	Computer and network Essensisal Lab	0	0	2	2	1	30	30	40		
11	1	Vocational Skill Enhancement Course	VSEC	7VS151	Engineering Skills - I	0	0	2	2	1	30	30	40		
		Total				15	1	12	28	22					
	Sem	NEP Category	EP Categor	Code	Course Name	L	T	P	Hr	Cr	ISE/LA	ISE/LA2	ESE	OE	POE
12	2	Basic Science Course	BSC	7MA104	Engineering Mathematics-II	3	1	0	4	4	30	20	50		
13	2	Basic Science Course	BSC	7CH103	Engineering Chemistry	3	0	0	3	3	30	20	50		
14	2	Engineering Science Course	ESC	7ME108	Engineering Graphics	1	0	2	3	2	30	20	50		
15	2	Engineering Science Course	ESC	7EE106	Electrical & Electronics Engineering	3	0	0	3	3	30	20	50		
16	2	Basic Science Course	BSC	7CH155	Engineering Chemistry Lab	0	0	2	2	1	30	20	50		
17	2	Engineering Science Course	ESC	7CS108	Computer Programming	2	0	2	4	3	30	30	40		
18	2	Engineering Science Course	ESC	7EE156	Electrical & Electronics Engineering Lab	0	0	2	2	1	30	30	40		
19	2	Professinal Core Course	PCC	7CS102	Basic of Web Technology	3	0	0	3	3	30	30	40		
20	2	Professinal Core Course	PCC	7CS152	Basic of Web Technology Lab	0	0	2	2	1	30	30	40		
21	2	Vocational Skill Enhancement Course	VSEC	7VS152	Engineering Skills - II	0	0	2	2	1	30	30	40		
		Total				15	1	12	28	22					
	S.Y.	B.Tech. CSE AY 2024-25 onwards													
Sr. No.	Sem	NEP Category	EP Categor	Code	Course Name	L	T	P	Hr	Cr	ISE/LA	ISE/LA2	ESE	OE	POE
22	3	Professinal Core Course	PCC	7CS201	Computer Organization and Architecture	3			3	3	30	20	50		
23	3	Indian Knowledge System	IKS	Refer List	IKS Elective	2			2	2	30	20	50		
24	3	Entrepreneurship/Economics/	EEM	7EE201	Understanding Incubation and Entrepreneurship	3			3	3	30	20	50		
25	3	Professinal Core Course	PCC	7CS202	Discrete Mathematics	3			3	3	30	20	50		
26	3	Professinal Core Course	PCC	7CS203	Data Structure	3			3	3	30	20	50		
27	3	Professinal Core Course	PCC	7CS204	Computer Network	3			3	3	30	20	50		
28	3	Professinal Core Course	PCC	7CS205	Software Engineering	3			3	3	30	20	50		
29	3	Professinal Core Course	PCC	7CS251	Data Structure Lab			2	2	1	30	30	40		POE
30	3	Community Engangement Project / Field Project	CEP/FP	7CECS251	Community Engagement Project / Field Project			2	2	1	30	30	40		
31	3	Vocational Skill Enhancement Course	VSEC	7VSCS251	Object Oriented Programming	1		2	3	2	30	30	40		POE
		Total				21	0	6	27	24					

	Sem	NEP Category	EP Categor	Code	Course Name	L	T	P	Hr	Cr	ISE/LA	ISE/LA2	ESE	POE	
	4	Basic Science Course	BSC	7MA205	Applied Mathematics for Computer Science and	3			3	3	30	20	50		
	4	Ability Enhancement Course	AEC	7AE201	Employability Skills	2			2	2	30	20	50		
	4	Value Education Course	VEC	7VE201	Value Education	2			2	2	30	20	50		
	4	Professinal Core Course	PCC	7CS221	Operating System	3			3	3	30	20	50		
	4	Professinal Core Course	PCC	7CS222	Database Engineering	3			3	3	30	20	50		
	4	Professinal Core Course	PCC	7CS223	Formal Language & Automata	3			3	3	30	20	50		
	4	Professinal Core Course	PCC	7CS271	Database Engineering Lab			2	2	1	30	30	40	POE	
	4	Professinal Core Course	PCC	7CS272	Web Design and Development Lab			2	2	1	30	30	40	POE	
	4	Multidisciplinary Minor	MDM	Refer List	MDM	3			3	3	30	20	50		
	4	Vocational Skill Enhancement Course	VSEC	7VSCS271	Innovation and Design Thinking			2	2	1	30	30	40		
		Total				19	0	6	25	22					
	T.Y.	B.Tech. CSE AY 2025-26 onwards													
Sr. No.	Sem	NEP Category	EP Categor	Code	Course Name	L	T	P	Hr	Cr	ISE/LA	ISE/LA2	ESE	OE	POE
42	5	Multidisciplinary Minor	MDM	Refer List	MDM	3			3	3	30	20	50		
43	5	Open Elective	OE	Refer List	Open Elective - 1	3			3	3	30	20	50		
44	5	Entrepreneurship/Economics/	EEM	7EE301	Finance for Engineering	2			2	2	30	20	50		
45	5	Professinal Core Course	PCC	7CS301	Compiler Design	3			3	3	30	20	50		
46	5	Professinal Core Course	PCC	7CS302	Machine Learning	3			3	3	30	20	50		
47	5	Professinal Core Course	PCC	7CS303	Computer Algorithms	3			3	3	30	20	50		
48	5	Professinal Core Course	PCC	7CS351	Computer Algorithms Lab			2	2	1	30	30	40	POE	
49	5	Professinal Core Course	PCC	7CS352	Mobile App development	1		2	3	2	30	30	40		
50	5	Professinal Core Course	PCC	7CS353	Machine Learning Lab			2	2	1	30	30	40		
51	5	Professinal Core Course	PCC	7CS345	Mini Project 1			2	2	1	30	30	40	POE	
		Total				18	0	8	26	22					
Sem	NEP Category	EP Categor	Code	Course Name	L	T	P	Hr	Cr	ISE/LA	ISE/LA2	ESE	POE		
6	Professinal Elective Course	PEC	Refer List	Program Elective - 1	2			2	2	30	20	50			
6	Multidisciplinary Minor	MDM	Refer List	MDM					4	30	20	50			
6	Open Elective	OE	Refer List	Open Elective - 2	3			3	3	30	20	50			
6	Professinal Elective Course	PEC	Refer List	Program Elective - 1 Lab			2	2	1	30	30	40			
6	Professinal Core Course	PCC	7CS321	Cloud Computing	3			3	3	30	20	50			
6	Professinal Core Course	PCC	7CS322	Cryptography & Network Security	2			2	2	30	20	50			
6	Professinal Core Course	PCC	7CS323	Advanced Database System	3			3	3	30	20	50			
6	Professinal Core Course	PCC	7CS371	Advanced Database System Lab			2	2	1	30	30	40	POE		
6	Professinal Core Course	PCC	7CS372	Cryptography & Network Security lab			2	2	1	30	30	40			
6	Value Education Course	VEC	7VE301	Environmental Science	2			2	2	30	20	50			
6	Vocational Skill Enhancement Course	VSEC	7VSCS346	Mini Project 2			2	2	1	30	30	40	POE		
		Total			15	0	8	23	23						
	Final.Y.	B.Tech. CSE AY 2026-27 onwards			Sem A										
Sr. No.	Sem	NEP Category	EP Categor	Code	Course Name	L	T	P	Hr	Cr	ISE/LA	ISE/LA2	ESE	OE	POE
63	A	Professional Elective Course	PEC	Refer List	Program Elective - 2	3			3	3	30	20	50		
64	A	Professional Elective Course	PEC	Refer List	Program Elective - 3	3			3	3	30	20	50		
65	A	Research Methodology	RM	7RM401	Research Methodology	2			2	2	30	20	50		
66	A	Co-curricular Course Activity	CCA	7CC451	Techno Socio Activities			2	2	1	30	30	40		

67	A	INTERNSHIP	INTERNSHIP	7CS445	Internship					8	30	30	40		
		Total				8	0	2	10	17					
				Sem B											
	Sem	NEP Category	EP Category	Code	Course Name	L	T	P	Hr	Cr	ISE/LA	ISE/LA2	ESE	POE	
68	B	Professional Elective Course	PEC	Refer List	Program Elective - 4	3			3	3	30	20	50		
69	B	Professional Elective Course	PEC	Refer List	Program Elective - 5	3			3	3	30	20	50		
70	B	Professional Core Course	PCC	7CS421	High Performance Computing	3			3	3	30	20	50		
71	B	Professional Core Course	PCC	7CS471	High Performance Computing Lab			2	2	1	30	30	40		
72	B	Multidisciplinary Minor	MDM		MDM					4	30	20	50		
73	B	Professional Core Course	PCC	7CS422	Deep Learning	3			3	3	30	20	50		
74	B	Research Project	PROJECT	7CS491	Project				0	5	30	30	40		POE
		Total				12	0	2	14	22					
										174					