4 year BTech Curricula for Computer Science and Engineering

BTech I semester (B1)

SN	Sub Code	Subject	Contact hours	Credits
1	10B11PD111	Presentation and Communication Skills	3	3
2	10B11PD199	English – Audit Course	2	0
3	10B11MA111	Mathematics-I	4	4
4	10B11PH111	Physics-I	4	4
5	10B11EC111	Electrical Circuit Analysis	4	4
6	10B11CI111	Introduction to Computers and Programming	4	4
7	10B17PH171	Physics Lab-I	2	1
8	10B17EC171	Electrical Circuits Lab	2	1
9	10B17CI171	Computer Programming Lab	4	2
10	10B19GE199	Institutional Orientation	2	0
		Total	31	23

4 year BTech Curricula for Computer Science and Engineering

BTech II semester (B2)

SN	Sub Code	Subject	Contact hours	Credits
1	10B11PD211	Group and Cooperative Processes	3	3
2	10B11MA211	Discrete Mathematics	4	4
3	10B11PH211	Physics-II	4	4
4	10B11EC211	Basic Electronic Devices and Circuits	4	4
5	10B11CI211	Data Structures	4	4
6	10B17PH271	Physics Lab-II	2	1
7	10B17EC271	Basic Electronics Lab	2	1
8	10B17CI271	Data Structures and Computer Programming Lab	4	2
9	10B19CI299	Departmental Orientation	2	0
		Total	**29**	**23**

4 year BTech Curricula for Computer Science and Engineering

BTech III semester (B3)

SN	Sub Code	Subject	Contact hours	Credits
1	10B11PD311	Economics	3	3
2	10B11MA201	Mathematics-II	4	4
3	10B11EC401	Digital Electronics	4	4
4	10B11CI311	Object Oriented Programming	4	4
5	10B11CI312	Database Systems	4	4
6	10B17EC407	Digital Electronics Lab	2	1
7	10B17CI371	Object Oriented Programming Lab	2	1
8	10B17CI372	Database Systems Lab	2	1
9	10B17CI307	Unix Programming Lab	2	1
		Total	**27**	**23**

4 year BTech Curricula for Computer Science and Engineering

BTech IV semester (B4)

SN	Sub Code	Subject	Contact hours	Credits
1	10B11PD411	Financial Management	3	3
2	10B11MA411	Probability Theory and Random Processes	4	4
3	10B11EC301	Signals and Systems	4	4
4	10B11CI401	Microprocessors and Controllers	4	4
5	10B11CI411	Fundamentals of Algorithms	4	4
6	10B11GE411	Environmental Studies	3	3
7	10B17EC307	Signals and Systems Lab	2	1
8	10B17CI407	Microprocessors and Controllers Lab	2	1
9	10B17CI471	Algorithms Lab	2	1
10	10B28CI408	Multimedia Development Lab I	2	1
		Total	**30**	**26**

4 year BTech Curricula for Computer Science and Engineering

BTech V semester (B5)

SN	Sub Code	Subject	Contact hours	Credits
1	10B11PD511	Social and Legal Issues	3	3
2	10B11EC514	Communication Systems	4	4
3	10B11CI511	Operating Systems	4	4
4	10B11CI512	Software Engineering	4	4
5	10B11CI513	Theory of Computation	4	4
6	10B17EC574	Communication Systems Lab	2	1
7	10B17CI571	Operating Systems Lab	2	1
8	10B17CI572	Software Engineering Lab	2	1
9	10B28CI581	Web Technology Lab	2	1
10	10B19CI591	Minor Project I	10	5
		Total	**37**	**28**

4 year BTech Curricula for Computer Science and Engineering

BTech VI semester (B6)

SN	Sub Code	Subject	Contact hours	Credits
1	10B11PD611	Project Management	3	3
2	10B11CI611	Computer Networks	4	4
3	10B11CI612	Compiler Design	4	4
4	10B11CI613	Computer Organisation and Architecture	4	4
5	10B11PH611	Material Science	4	4
6	10B17CI671	Computer Networks Lab	2	1
7	10B17CI672	Compiler Design Lab	2	1
9	10B17CI673	System and Network Programming Lab	4	2
10	10B19GE698	Industrial Training		0
11	10B19CI691	Minor Project II	10	5
		Total	**37**	**28**

4 year BTech Curricula for Computer Science and Engineering

BTech VII semester (B7)

SN	Sub Code	Subject	Contact hours	Credits
1		HSS Elective-I	3	3
2		DE-I	3	3
3		DE-II	3	3
4		DE-III	3	3
5	10B19CI791	Project Part I	20	10
		Total	**32**	**22**

List of courses for HSS Elective-I

SN	Sub Code	Subject		
1	13B11NHS731	Technology and Culture		
2	10B1NPD733	Managing and Marketing Technology		
3	10B1NPD735	Indian Financial System		
4	10B1NPD734	Customer Relationship Management		
5	10B1NPD732	Entrepreneurial Development		

List of courses for DE-I, DE-II, DE-III

SN	Sub Code	Subject		
1	10B1NCI731	Artificial Intelligence		
2	10B1NCI733	Graph Algorithm and Applications		
3	10B1NCI736	Information Retrieval and Data Mining		
4	12B2NCI752	Mobile Computing		
5	10B13CI834	Parallel Processing		
6	13B1NCI834	Software Construction		
7	14B1NCI731	Embedded Systems		

4 year BTech Curricula for Computer Science and Engineering

BTech VIII semester (B8)

SN	Sub Code	Subject	Contact hours	Credits
1		HSS Elective-II	3	3
2		DE-IV	3	3

3		DE-V	3	3
4		DE-VI	3	3
5	10B19CI891	Project Part II	20	10
		Total	**32**	**22**

List of courses for HSS Elective-II

SN	Sub Code	Subject		
1	13B1NHS831	Organizational Psychology		
2	10B13PD832	Quality Issues In Engineering		
3	10B13PD831	Knowledge Management		
4	12B1NHS831	Industrial Sociology		

List of courses for DE-IV, DE-V, DE-VI

SN	Sub Code	Subject		
1	14B1NCI833	Advanced Data Structure		
2	10B2NCI853	Cryptography & Network Security		
3	14B1NCI831	Design of Algorithms		
4	11B1NCI831	Distributed Computing		
5	10B1NCI831	Image Processing		
6	14B1NCI832	Industrial Automation		
7	14B1NCI834	Mobile Application Development		
8	10B1NCI837	Natural Language Processing		
9	14B1NCI835	Performance Analysis of Computing Systems		
10	11B1NCI731	Soft Computing		
11	10B1NCI835	System Programming		
12	13B1NCI832	Design of Database Systems		
13	13B1NCI831	Multidimentional Data Structure		

Note for Elective Courses

* All Electives offered to B.Tech IT,B.Tech-M.Tech Dual Degree (CSE) 4th year students are also open for these students
* Few electives offered by other departments are also open for these students
* Few electives open to M.Tech (CSE) or B.Tech-M.Tech Dual Degree (CSE) 5th year are also open to these students.
* List of electives to be updated from time to time as per academic needs