4 year BTech Curricula for Information Technology

Computer Science and Engineering

4 year BTech Curricula for Information Technology

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

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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

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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

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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	10B22CI421	Computer Organisation	4	4
5	10B11CI411	Fundamentals of Algorithms	4	4
6	10B11GE411	Environmental Studies	3	3
7	10B17EC307	Signals and Systems Lab	2	1
8	10B28CI481	Computer Organisation Lab	2	1
9	10B17CI471	Algorithms Lab	2	1
10	10B28CI408	Multimedia Development Lab I	2	1
		Total	30	26

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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	10B22CI521	Web Application Engineering	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	10B29CI592	Minor Project I	10	5
		Total	37	28

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BTech VI semester (B6)

SN	Sub Code	Subject	Contact hours	Credits
1	10B11PD611	Project Management	3	3
2	10B11CI611	Computer Networks	4	4
3	10B22CI621	Information Systems	4	4
4	10B11PH611	Material Science	4	4
5	10B22CI622	Data Mining	4	4
6	10B17CI671	Computer Networks Lab	2	1
7	10B28CI681	Information Systems Lab	2	1
9	10B28CI682	Data Mining Lab	2	1
8	10B28CI683	Multimedia Development Lab II	2	1
10	10B19GE698	Industrial Training		0
11	10B29CI692	Minor Project II	10	5
		Total	37	28

4 year BTech Curricula for Information Technology				
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	10B29CI792	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	10B1NCI732	Computer Graphics		
2	12B2NCI831	Human Aspects for Information Technology		
3	12B2NCI753	Human Computer Interaction		
4	10B1NCI737	Multimedia Computing		
5	10B2NCI753	Network Programming		
6	11B1NCI732	Robotics		
7	10B1NCI832	Software Design		
8	10B2NCI734	Software Engineering Management		
9	10B2NCI752	Software Quality		
10	10B1NCI735	Theory of Knowledge, Learning, and Research		

4 year BTech Curricula for Information Technology				
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	10B29CI892	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	13B1NCI833	Computer Games		
2	10B2NCI852	E-Commerce		
3	12B1NCI832	Mobile Application Engieering		
4	12B2NCI751	Theory of Automata and Compiler Design		
5	13B1NCI731	Cloud Computing		
6	13B1NCI732	Wireless and Mobile Ad Hoc Networks		
7	14B1NCI836	Digial Audio and Speech Processing		
8	14B1NCI837	Multimedia Interaction Design		
Note for Elective Courses				
*All Electives offered to B.Tech CSE,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				