

JES					
4 year BTech New Approved Curricula for Information Technology wef 2017-18 batch					
BTech I semester (B1)					
SN	Sub Code	Subject	Contact hours	Credits	Remarks
1	PD	Professional Dev – I	3	3	
2	MA	Mathematics-I	4	4	
3	PH	Physics-I	4	4	
4	EC	Electrical Circuit Analysis	4	4	
5	CS	Introduction to Computers and Programming	4	4	
6	PH	Physics Lab-I	2	1	
7	EC	Electrical Circuits Lab	2	1	
8	CS	Computer Programming Lab	4	2	
9		Institutional Orientation	2	0	
		Total	29	23	
JES					
4 year BTech New Approved Curricula for Information Technology wef 2017-18 batch					
BTech II semester (B2)					
SN	Sub Code	Subject	Contact hours	Credits	Remarks
1	PD	Professional Dev – II	3	3	
2	MA	Mathematics-II	4	4	
3	PH	Physics-II	4	4	
4	EC	Basic Electronic Devices and Circuits	4	4	
5	CS	Data Structures	4	4	
6	PH	Physics Lab-II	2	1	
7	EC	Basic Electronics Lab	2	1	
8	CS	Data Structures and Computer Programming Lab	4	2	
9	IT	Departmental Orientation	2	0	
		Total	29	23	
JES					
4 year BTech New Approved Curricula for Information Technology wef 2017-18 batch					
BTech III semester (B3)					
SN	Sub Code	Subject	Contact hours	Credits	Remarks
1	PD	Professional Dev – III	3	3	
2	MA	Mathematics-III	4	4	
3	EC	Digital Electronics	4	4	
4	CS	Object Oriented Programming	4	4	
5	CS	Database Systems	4	4	
6	EC	Digital Electronics Lab	2	1	
7	CS	Object Oriented Programming Lab	2	1	
8	CS	Database Systems Lab	2	1	
9	CS	Unix Programming Lab	2	1	
		Total	27	23	

--	--	--	--	--	--

JES					
4 year BTech New Approved Curricula for Information Technology wef 2017-18 batch					
BTech IV semester (B4)					
SN	Sub Code	Subject	Contact hours	Credits	Remarks
1	PD	Professional Dev – IV	3	3	
2	MA	Mathematics-IV	4	4	
3	EC	Signals and Systems	4	4	
4	IT	Computer Organisation	4	4	
5	CS	Fundamentals of Algorithms	4	4	
6	EC	Signals and Systems Lab	2	1	
7	CS	Computer Organisation Lab	2	1	
8	CS	Algorithms Lab	2	1	
9	IT	Multimedia Development Lab I	2	1	
10	Civ	Environmental Studies	3	3	
		Total	30	26	
JES					
4 year BTech New Approved Curricula for Information Technology wef 2017-18 batch					
BTech V semester (B5)					
SN	Sub Code	Subject	Contact hours	Credits	Remarks
1	PD	Professional Dev – V	3	3	
2	EC	Communication Systems	4	4	
3	CS	Operating Systems	4	4	
4	CS	Software Engineering	4	4	
5	EC	Communication Systems Lab	2	1	
6	CS	Operating Systems Lab	2	1	
7	CS	Software Engineering Lab	2	1	
8	IT	Web Technology Lab	2	1	
9	IT	DE-I	3	3	
10	IT	Project Part-I	6	3	
		Total	32	25	
JES					
4 year BTech New Approved Curricula for Information Technology wef 2017-18 batch					
BTech VI semester (B6)					
SN	Sub Code	Subject	Contact hours	Credits	Remarks
1	PD	Professional Dev – VI	3	3	
2	CS	Computer Networks	4	4	
4	IT	Data Mining	4	4	
5	CS	Computer Networks Lab	2	1	
7	IT	Multimedia Development Lab II	2	1	
8	IT	Data Mining Lab	2	1	
2	IT	Computer Graphics	4	4	
3	IT	Computer Graphics Lab	2	1	
9	IT	DE-II	3	3	
10	IT	Project Part II	6	3	

		Total	32	25	
JES					
4 year BTech New Approved Curricula for Information Technology wef 2017-18 batch					
BTech VII semester (B7)					
SN	Sub Code	Subject	Contact hours	Credits	Remarks
1	PD	Professional Dev – VII	3	3	
2	CS	Software Testing and Debugging	4	4	
3	CS	Software Testing and Debugging Lab	2	1	
4	IT	Web Application Engineering	4	4	
5	IT	DE-III	3	3	
6	IT	DE-IV	3	3	
7	IT	Project Part I	14	7	
		Total	33	25	

JES					
4 year BTech New Approved Curricula for Information Technology wef 2017-18 batch					
BTech VIII semester (B8)					
SN	Sub Code	Subject	Contact hours	Credits	Remarks
1	PD	Professional Dev – VIII	3	3	
2	IT	Information Systems	4	4	
3	IT	Information Systems Lab	2	1	
4	PH	Material Science	4	4	
5	IT	DE-V	3	3	
6	IT	DE-VI	3	3	
7	IT	Project Part II	14	7	
		Total	33	25	
List of Electives					
(To be updated from time to time)					
1	MA	Algebraic Number Theory			
2	BT	Bio-informatics			
3	IT	Computer Games			
4	IT	Cryptography and Network Security			
5	IT	E-commerce			
6	IT	Geographic Information Systems			
7	IT	Human Aspects for Information Technology			
8	CS	Image Processing			
9	MA	Integral Transforms			
10	IT	Learning Sciences and Technology			
11	EC	Mobile Communications			
12	IT	Multimedia Content Creation			
13	MA	Operation Research			
14	MA	Partial Differential Equations			
15	PH	Quantum Computing			
16	PH	Special Theory of Relativity			
17	CS	Systems Programming			
18	MA	Abstract Algebra			
19	CS	Artificial Intelligence			
20	PH	Astrophysics			
21	BT	Biosciences			
22	IT	Computer Animation			
23	CS	Computer Graphics			
24	CS	Design of Database Systems			
25	IT	Enterprise Application Development			
26	MA	Game Theory			
27	PH	General Theory of Relativity			
28	MA	Graph Theory			
29	IT	Human Computer Interaction			
30	CS	Multi-Dimensional Data Structures			
31	PH	Nano Science and Technology			
32	CS	Network Programming			
33	MA	Numerical Analysis			
34	IT	Research Methodology			
35	CS	Software Engineering Management			

		Credit Summary	Credits		
		Sem1	23		
		Sem2	23		
		Sem3	23		
		Sem4	26		
		Sem5	25		
		Sem6	25		
		Sem7	25		
		Sem8	25		
		Total	195		