		JES			
		4 year BTech Curricula for Information Tec	hnology		
		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 Curricula for Information Tec	hnology		
		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 Curricula for Information Tec BTech III semester (B3)	nnology		
		Brech in 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 Curricula for Information Technology	chnology		
		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 Curricula for Information Tec	chnology		
		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	IT	Web Application Engineering	4	4	
6	EC	Communication Systems Lab	2	1	
7	CS	Operating Systems Lab	2	1	
8	CS	Software Engineering Lab	2	1	
9	IT	Web Technology Lab	2	1	
10	CS	Software Testing and Debugging	4	4	
11	CS	Software Testing and Debugging Lab	2	1	
		Total	33	28	
		JES	·		
		4 year BTech Curricula for Information Technology	chnology		
		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	
_		Information Systems	4	4	
3	III		'	•	I
3	IT PH	-	4	4	
3 4 5	PH IT	Material Science Data Mining	4 4	4	

7	IT	Information Systems Lab	2	1	
8	IT	Multimedia Development Lab II	2	1	
9	IT	Data Mining Lab	2	1	
10	IT	Data Analysis and Simulation Techniques	4	4	
11	IT	Simulation Techniques Lab	2	1	1
- ' '	· ·	Total	33	28	
		Total	33	20	
		JES			
		4 year BTech Curricula for Information Techr	nology		
		BTech VII semester (B7)			
		, ,			
SN	Sub		Contact	O 111	
	Code	Subject	hours	Credits	Remarks
1	PD	Professional Dev – VII	3	3	
2		DE-I	3	3	
3		DE-II	3	3	
4		DE-III	3	3	
5	IT	Project Part I	20	10	
		Total	32	22	
		List of Electives			
		(To be updated from time to time)			
1	MA	Abstract Algebra			
2	CS	Artificial Intelligence			
3	PH	Astrophysics			
4	BT	Biosciences			
5	IT	Computer Animation			
6	CS	Computer Graphics			
7	CS	Design of Database Sytems			
8	IT	Enterprise Application Development			
9	MA	Game Theory			
10	PH	General Theory of Relativity			
11	MA	Graph Theory			
12	IT	Human Computer Interaction			
13	CS	Multi-Dimensional Data Structures			
14	PH	Nano Science and Technology			
15	CS	Network Programming			
16	MA	Numerical Analysis			
17	IT	Research Methodology			
18	CS	Software Engineering Management			
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	Sub Code PD	4 year BTech Curricula for Information Technology BTech VIII semester (B8) Subject	Contact		
1	Code	BTech VIII semester (B8)			
1	Code	Subject	Contact		
1	Code	Subject	Contact		
	PD		hours	Credits	Remarks
2		Professional Dev – VIII	3	3	
		DE-IV	3	3	
3		DE-V	3	3	
4		DE-VI	3	3	
5	IT	Project Part II	20	10	
		Total	32	22	
		List of Electives			
		(To be updated from time to time)			
1	MA	Algebraic Number Theory			
2	ВТ	Bio-informatics			
3	IT	Computer Games			
4	IT	Cryptography and Network Security			
5	IT	E-commerce			
6	IT	Geographic Information Systems			<u> </u>
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			
		Credit Summary	Credits		
		Sem1	23		
		Sem2	23		
		Sem3	23		†
		Sem4	26		1
		Sem5	28		†
		Sem6	28		1
		Sem7	22		1
		Sem8	22		1
		Total	195		