

JES					
4 year BTech New Approved Curricula for Computer Science Engineering 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	
		<b>Total</b>	<b>29</b>	<b>23</b>	
JES					
4 year BTech New Approved Curricula for Computer Science Engineering 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	CS	Departmental Orientation	2	0	
		<b>Total</b>	<b>29</b>	<b>23</b>	
JES					
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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	

		<b>Total</b>	<b>27</b>	<b>23</b>	
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<b>BTech IV semester (B4)</b>					
<b>SN</b>	<b>Sub Code</b>	<b>Subject</b>	<b>Contact hours</b>	<b>Credits</b>	<b>Remarks</b>
1	PD	Professional Dev – IV	3	3	
2	MA	Mathematics-IV	4	4	
3	EC	Signals and Systems	4	4	
4	CS	Microprocessors and Controllers	4	4	
5	CS	Fundamentals of Algorithms	4	4	
6	EC	Signals and Systems Lab	2	1	
7	CS	Microprocessors and Controllers Lab	2	1	
8	CS	Algorithms Lab	2	1	
9	IT	Multimedia Development Lab I	2	1	
		Environmental Studies	3	3	
		<b>Total</b>	<b>30</b>	<b>26</b>	
<b>JES</b>					
<b>4 year BTech New Approved Curricula for Computer Science Engineering wef 2017-18 batch</b>					
<b>BTech V semester (B5)</b>					
<b>SN</b>	<b>Sub Code</b>	<b>Subject</b>	<b>Contact hours</b>	<b>Credits</b>	<b>Remarks</b>
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		DE-I	3	3	
10	CS	Project Part-I	6	3	
			<b>32</b>	<b>25</b>	
<b>JES</b>					
<b>4 year BTech New Approved Curricula for Computer Science Engineering wef 2017-18 batch</b>					
<b>BTech VI semester (B6)</b>					
<b>SN</b>	<b>Sub Code</b>	<b>Subject</b>	<b>Contact hours</b>	<b>Credits</b>	<b>Remarks</b>
1	PD	Professional Dev – VI	3	3	
2	CS	Computer Networks	4	4	
3	CS	Computer Organisation and Architecture	4	4	
4	CS	Computer Networks Lab	2	1	
5	CS	System and Network Programming Lab	4	2	

6	IT	Computer Graphics	4	4	
7	IT	Computer Graphics Lab	2	1	
8	CS	Project Part II	6	3	
9	CS	DE-II	3	3	
		<b>Total</b>	<b>32</b>	<b>25</b>	

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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 La	2	1	
4	CS	Theory of Computation	4	4	
5		DE-III	3	3	
6		DE-IV	3	3	
7	CS	Project Part III	14	7	
		<b>Total</b>	<b>33</b>	<b>25</b>	

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BTech VIII semester (B8)					
SN	Sub Code	Subject	Contact hours	Credits	Remarks
1	PD	Professional Dev – VIII	3	3	
2	CS	Compiler Design	4	4	
3	CS	Compiler Design Lab	2	1	

5		DE-V	3	3	
6		DE-VI	3	3	
7	CS	Project Part IV	17	7	
3	PH	Material Science	4	4	
		<b>Total</b>	<b>36</b>	<b>25</b>	

List of Electives (To be updated from time to time)					
SN	Sub Code	Subject	Contact hours	Credits	Remarks
1	MA	Algebraic Number Theory			
2	BT	Bio-informatics			
3	IT	Computer Games			
4	IT	Cryptography and Network Security			
5	CS	Design of Algorithms			
6	CS	Embedded Systems			
7	IT	Human Aspects for Information Technology			
8	CS	Image Processing			
9	IT	Information Retrieval and Data Mining			
10	MA	Integral Transforms			
11	EC	Mobile Communications			
12	IT	Network Management			
13	MA	Operation Research			
14	CS	Parallel Processing			
15	MA	Partial Differential Equations			
16	PH	Quantum Computing			

17	PH	Special Theory of Relativity			
18	CS	Systems Programming			
19	MA	Abstract Algebra			
20	CS	Artificial Intellegence			
21	PH	Astrophysics			
22	BT	Biosciences			
23	CS	Computer Graphics			
24	CS	Design of Database Sytems			
25	EC	Digital Signal Processing			
26	MA	Game Theory			
27	PH	General Theory of Relativity			
28	CS	Graph Algorithms and Applications			
29	MA	Graph Theory			
30	EC	Information Theory and Applications			
31	IT	Learning Sciences and Technology			
32	CS	Multi-Dimensional Data Structures			
33	PH	Nano Science and Technology			
34	CS	Network Programming			
35	MA	Numerical Analysis			
36	CS	Principles of Programming Languages			
37	IT	Research Methodology			
38	CS	Soft Computing			
39	CS	Software Engineering Management			
		Credit Summary	Credits		
		Sem1	23		
		Sem2	23		
		Sem3	23		
		Sem4	26		
		Sem5	25		
		Sem6	25		
		Sem7	25		
		Sem8	<b>25</b>		
		Total	195		