

**School Name: School Computing Science & Engineering**

**Program Name: B.Tech. (Computer Science)**

**Scheme: 2018-2022**

1 <sup>st</sup> Semester						
S.No.	Course Code	Name of the Course	Teaching Scheme			Credits
			L	T	P	
1	MATH1005	Calculus	3	0	0	3
2	BTME1003	Product Manufacturing	0	0	2	1
3	CHEM1001	Engineering Chemistry	3	0	0	3
4	PHYS1001	Engineering Physics	3	0	0	3
5	UHVE1001/PSSO1001	Universal Human Values /Psychology & Sociology	0	0	4	2
6	GERN1001	Germen-I	0	0	2	1
Practical						
1	MATH1007	Exploration with CAS-I	0	0	2	1
2	SLBT1011	English Proficiency and Aptitude Building-1	0	0	4	2
3	BCSE1001	Introduction to Computer Science and Engineering 0-0-2(1)	0	0	2	1
4	BCSE1002	Computer Programming and Problem Solving	0	0	4	2
5	CHEM1002	Engineering Chemistry-Lab	0	0	2	1
6	PHYS1002	Engineering Physics-Lab	0	0	2	1
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>24</b>	<b>21</b>

2 <sup>nd</sup> Semester						
S.No.	Course Code	Name of the Course	Teaching Scheme			Credits
			L	T	P	
1	MATH1006	Linear Algebra and Differential Equation	3	0	0	3
2	BTME1002	Product Design Using Graphics	0	0	4	2
3	ENVS1001	Environmental Science	3	0	0	3
4	BEEE1002	Basic Electrical and Electronic Engineering	3	0	0	3
5	UHVE1001/PSSO1001	Universal Human Values /Psychology & Sociology	0	0	4	2
6	GERN1002	Germen-II	0	0	2	1
Practical						
1	MATH1008	Exploration with CAS-II	0	0	2	1
2	SLBT1012	English Proficiency and Aptitude Building -II	0	0	4	2
3	BCSE1003	Application Oriented Programming Using Python	0	0	4	2

4	BEEE1003	Basic Electrical and Electronic Engineering-Lab	0	0	2	1
<b>TOTAL</b>			9	0	22	20

### 3<sup>rd</sup> Semester

S.No.	Course Code	Name of the Course	Teaching Scheme			Credits
			L	T	P	
1	MATH2007	Discrete Structure	3	1	0	4
2	BCSE-2330	Introduction to cryptographic Fundamentals	3	0	0	3
3	BCSE-2320	Data Structure Using C++	3	0	0	3
4	BCSE-2310	Digital Design and Computer Architecture	3	0	0	3
5	BTME-2002	Engineering Thermodynamics	3	0	0	3
6	BCSE-2340	Theory of Automata & Formal Language	3	0	0	3
<b>Practical</b>						
1	BCSE-2331	Introduction to cryptographic Fundamentals-Lab	0	0	2	1
2	SLBT-2021	English Proficiency and Aptitude Building -III	0	0	4	2
3	BCSE-2321	Data Structure Using C++-lab	0	0	2	1
4	BCSE-2311	Digital Design and Computer Architecture-Lab	0	0	2	1
5	BCSE-2072	Industry Oriented Python-1	0	0	2	1
6	BCSE-2071	Industry Oriented Java-1	0	0	2	1
<b>TOTAL</b>			18	1	14	26

### 4<sup>th</sup> Semester

S.No.	Course Code	Name of the Course	Teaching Scheme			Credits
			L	T	P	
1	MATH2003	Probability & Statistics	3	0	0	3
2	BCSE2010	Operating System	2	0	2	3
3	BCSE2011	Data base management System	2	0	2	3
4	BCSE3029	AI&ML Using Python	3	0	0	3
5	BCSE2012	Data Communication & Networking	3	0	0	3
6	BECE9009	Transducer Sensor & Embedded System	3	0	0	3
<b>Practical</b>						
1	SLBT2022	English Proficiency and Aptitude Building -4	0	0	4	2
2	BCSE3072	Industry Oriented Python-2	0	0	2	1
3	BCSE3071	Industry Oriented Java-2	0	0	2	1
<b>Total</b>			16	0	12	22

<b>5<sup>th</sup> Semester</b>						
<b>Subject Code</b>		<b>Name of the Course</b>	<b>Teaching Scheme</b>			<b>Credits</b>
			<b>L</b>	<b>T</b>	<b>P</b>	
1	BCSE3031	Design & Analysis of Algorithms	3	0	0	3
2	BCSE3032	Software Engineering & Testing Methodologies	2	0	4	4
3	BCSE3069	Computer Graphics	2	0	2	3
<b>Programme Elective -III</b>						
Elective-II:4	BCSE3051	Microprocessor & Interfacing	2	0	2	3
	BCSE3092	Data Sciences	2	0	2	3
	BCSE3093	Machine Learning	2	0	2	3
	BCSE3094	Data Mining and Warehousing	2	0	2	3
	BCSE3087	Information Theory and Coding Techniques	2	0	2	3
<b>Programme Elective -IV</b>						
Elective -III :5	BCSE3096	Cloud Application Development	2	0	2	3
	BCSE3097	Adhoc & Sensors Networks	2	0	2	3
	BCSE3086	Statistical Analysis using R	2	0	2	3
	BCSE3099	Block Chain Technology	2	0	2	3
	BCSE3088	Software Defined Network	2	0	2	3
<b>Practical/Training</b>						
6	BCSE3073	Programming Skills-1/ Industry Oriented Python-III/	0	0	2	1
7	BCSE3074	Programming Skills-1/ Industry Oriented Java-III/	0	0	2	1
8	BCSE3075	Minor Project	0	0	0	3
9	SLBT3031	English Proficiency and Aptitude Building -4	0	0	4	2
10	BCSE3076	Industrial/Summer Training -II	0	0	0	4
<b>TOTAL</b>			<b>11</b>	<b>0</b>	<b>18</b>	<b>27</b>

<b>6<sup>th</sup> Semester</b>						
<b>S.No.</b>	<b>Course Code</b>	<b>Name of the Course</b>	<b>Teaching Scheme</b>			<b>Credits</b>
			<b>L</b>	<b>T</b>	<b>P</b>	
1	BTCS3601	Web Technology	2	0	2	3
2	BTCS3602	Compiler Design	3	0	0	3
<b>Programme Elective -V</b>						
Elective-II:4	BTCS9502	Object Oriented Analysis & Design	2	0	2	3
	BTCS9503	Software Project Management	2	0	2	3
	BTCS9504	Network Operating System	2	0	2	3
	BTCS9505	Robotics Process automation	2	0	2	3
<b>University Elective -I</b>						
Elective -III :5	BTCS8101	Entrepreneurship	3	0	0	3
	BTCS8102	Project Management	3	0	0	3
	BTCS8103	Managerial Economics	3	0	0	3

	BTCS8104	Equity & Portfolio Management	3	0	0	3
<b>Practical/Training</b>						
6	BTCS3651	Industry Oriented Python-IV	0	0	2	1
7	BTCS3652	Industry Oriented Java-IV	0	0	2	1
8	SLBT3002	Campus to Corporate	0	0	4	2
9	BTCS3653	Project-II	0	0	0	2
<b>TOTAL</b>			<b>10</b>	<b>0</b>	<b>12</b>	<b>18</b>

### 7<sup>th</sup> Semester

S.No.	Course Code	Name of the Course	Teaching Scheme			Credits
			L	T	P	
<b>Programme Elective -VI</b>						
1	BTCS9603	Enterprise Resource Planning	3	0	2	4
	BTCS9604	Deep Learning	3	0	2	4
	BTCS9605	UI&UX	3	0	2	4
<b>Practical</b>						
2	BTCS9998	Capstone Design -1	0	0	12	6
<b>University Elective -II</b>						
3	BTCS8201	Banking system	3	0	0	3
	BTCS8202	Corporate Laws and Policy	3	0	0	3
	BTCS8203	Export and Import Policy	3	0	0	3
4	BTCS9997	Industrial Internship	0	0	0	4
<b>Total</b>			<b>18</b>	<b>0</b>	<b>18</b>	<b>17</b>

### 8<sup>th</sup> Semester

S.No.	Course Code	Name of the Course	Teaching Scheme			Credits
			L	T	P	
1	BTCS4881	Capstone Design -Phase-II	0	0	12	6
2	BTCS9992	Industrial Internship	0	0	6	3

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<b>Total Credits</b>	<b>160</b>
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