

School Name: School Computing Science & Engineering

Program Name: B.Tech. (Computer Science)

Scheme: 2019-2023

Semester -I						
S.No	Subject	Name of the Course	Teaching Scheme			Credits
			L	T	P	
1	BCS151	Fundamentals of Computer Programming Lab	0	0	2	1
2	BCS101	Fundamentals of Computer Programming	3	0	0	3
3	BEC101	Basic Electrical and Electronics Engineering	3	0	0	3
4	BEC151	Basic Electrical and Electronics Engineering -Lab	0	0	2	1
5	BCH101	Engineering Chemistry	3	0	0	3
6	BCH152	Engineering Chemistry Lab	0	0	2	1
7	BMA101	Multivariable Calculus (5)	3	0	0	3
8	BMA151	Exploration with CAS - I	0	0	2	1
9	FENG1005	Functional English	0	0	4	2
10	BME-152	Engineering Graphics	0	0	4	2
Total			12	0	16	20

Semester-II						
SN	Subject	Name of the Course	Teaching Scheme			Credits
			L	T	P	
1	BMA201	Linear Algebra & Differential Equations	3	0	0	3
2	BMA251	Exploration with CAS-II	0	0	2	1
3	BHS251	Professional communication Lab	0	0	2	1
4	BCS251	Application Programming using Python(2)	0	0	2	1
5	BOC253	Design and Innovation	0	0	2	1
6	BME-151	Work Shop Practics	0	0	2	1
7	BCSE901	Disruptive Technology(4)	0	0	2	1
8	BME-101	Elements of Mechanical Engineering	3	0	0	3
9	BLE101	Psychology and Sociology	2	0	0	2
10	BPH101	Engineering Physics	3	0	0	3
11	BPH151	Engineering Physics Lab	0	0	2	1
Total			11	0	14	18

Semester -III						
SN	Subject	Name of the Course	Teaching Scheme			Credits
			L	T	P	
1	BCSE2361	Data Structures & Algorithms	2	0	2	3
2	BCSE2370	Data Communication and Networking	2	0	2	3
3	BCSE2073	Data Base management System	2	0	2	3
4	MATH2007	Discrete Mathematics	3	1	0	4
5	BCSE2333	Java Programming	0	0	4	2
Elective						
PE-I (6)	BCSE2350	Cryptographic Fundamentals	2	0	2	3
	BCSE2351	Software Project Management	2	0	2	3
	BSCS2380	Cyber Security (Infosys)	2	0	2	3
	BCSE2353	Optimization Techniques	2	0	2	3
	BCSE2354	Artificial Intelligence	2	0	2	3
Practical/Training						
7	SLBT2021	English Proficiency and Aptitude Building - 2	0	0	4	2
8	BCSE2390	Technical Training-I	0	0	4	2
9	BCSE2091	Project-I	0	0	0	1
10	BCSE2092	Industrial/Summer Training -I	0	0	0	2
Total			11	1	20	25

Semester-IV						
SN	Subject	Name of the Course	Teaching Scheme			Credits
			L	T	P	
1	BTCS2400	Operating System	2	0	2	3
2	BTCS2401	Computer Graphics	2	0	2	3
3	BTCS2402	Analysis and Design of Algorithms	3	0	0	3
4		Maths (elective)	3	0	0	3
5	BTCS2404	Python Programming	0	0	4	2
Elective						
PE-II (6)	BTCS9201	Internet of Things	2	0	2	3
	BTCS9202	Data Sciences	2	0	2	3
	BTCS9203	Data Mining and Warehousing	2	0	2	3
	BTCS9204	Bio Informatics	2	0	2	3
	BTCS9205	Network Design and Management	2	0	2	3
Practical/Training						
7	SLBT3031	English Proficiency and Aptitude Building - 3	0	0	4	2
8	BTCS2451	Technical Training-II	0	0	4	2
9	BTCS2452	Project-II	0	0	0	2
Total			12	0	18	23

Semester-V						
SN	Subject	Name of the Course	Teaching Scheme			Credits
			L	T	P	
1		Maths (elective)	3	0	0	3
2	BTCS3501	Theory of Computation	3	0	0	3
3	BTCS3502	Software Engineering & Testing Methodologies	2	0	4	4
Programme Elective						
PE-III (4)	BTCS9301	Microprocessor & Interfacing	2	0	2	3
	BTCS9302	Quantum Computing	2	0	2	3
	BTCS9303	Soft Computing	2	0	2	3
	BTCS9304	Machine Learning	2	0	2	3
	BTCS9305	Modeling and Simulation	2	0	2	3
Programme Elective						
PE-IV (5)	BTCS9401	Cloud Application Development	2	0	2	3
	BTCS9402	Adhoc & Sensors Networks	2	0	2	3
	BTCS9403	Statistical Analysis using R	2	0	2	3
	BTCS9404	Block Chain (Infosys)	2	0	2	3
	BTCS9405	Software Defined Network	2	0	2	3
Practical/Training						
6	BTCS3550	Technical Training-III	0	0	4	2
7	BTCS3551	Project-III	0	0	0	2
8	SLBT3032	English Proficiency and Aptitude Building - 4	0	0	4	2
9	BTCS3553	Industrial/Summer Training -II	0	0	0	2
TOTAL			12	0	16	24

Semester-VI						
SN	Subject	Name of the Course	Teaching Scheme			Credits
			L	T	P	
1		Math-Ele-4 (Basket)	3	0	0	3
2	BTCS3601	Web Technology	1	0	4	3
3	BTCS3602	Compiler Design	3	0	0	3
Programme Elective -V						
PE-V (4)	BTCS9501	Digital Signal Processing	2	0	2	3
	BTCS9502	Object Oriented Analysis & Design	2	0	2	3
	BTCS9503	E-Business	2	0	2	3
	BTCS9504	Network Operating System	2	0	2	3
	BTCS9505	Robotics Process automation	2	0	2	3
University Elective-I						

UE-I (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
Practical/Training						
6	BTCS3651	Technical Training-IV	0	0	6	3
7	BTCS3652	Project-IV	0	0	0	3
8	BTCS3653	Campus to Corporate	0	0	4	2
TOTAL			12	0	16	23

Semester-VII						
SN	Subject	Name of the Course	Teaching Scheme			Credits
			L	T	P	
Programme Elective -VI						
PE- VI(1)	BTCS9601	Digital System Design using VHDL	2	0	2	3
	BTCS9602	Advanced Computer Networks	2	0	2	3
	BTCS9603	Enterprise Resource Planning	2	0	2	3
	BTCS9604	Deep Learning	2	0	2	3
	BTCS9605	UI&UX	2	0	2	3
University Elective-II						
UE-II (2)	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
Practical/Training						
3	BTCS4751	Technical Training-V	0	0	6	3
4	BTCS9998	Capstone Design -Phase 1	0	0	12	6
TOTAL			5	0	20	15

Semester- VIII						
Subject		Name of the Course	Teaching Scheme			Credits
			L	T	P	
Practical/Training						
1	BTCS4851	Industrial Internship	0	0	12	6
2	BTCS9999	Capstone Design -Phase 1	0	0	12	6
TOTAL			0	0	24	12

**Total
Credit 160**