

School Name: School Computing Science & Engineering

Program Name: B.Tech. (Computer Science)

Scheme: 2016-2020

1st Semester						
Subject Code	Name of the Course	Teaching Scheme			Credits	
		L	T	P		
Theory						
1	CHY111	General Chemistry	3	0	0	3
2	EEE101/CSE101	Basic Electrical and Electronics Engineering/Computer Programming and Problem solving	3	0	0	3
3	EVS102/HUM201	Environmental Science & Energy/ Psychology & Sociology	2	0	0	2
4	LLL111	Basic English	0	0	4	2
5	MAT113	Differential and Integral Calculus	3	1	0	4
6	MEE152/MEE151	Workshop Practice/ Engineering Graphics	0	0	4	2
7	PHY111	Modern Physics	3	0	0	3
8	CSE215	Introduction to Open Source Software and Open Standard	0	0	4	2
Practical						
1	PHY151	<i>Physics Lab I</i>	0	0	2	1
2	CHY151	<i>Engineering Chemistry- 1 Lab</i>	0	0	2	1
3	EEE151/CSE 151	<i>Basic Electrical and Electronics Engineering Lab (6)/Computer Programming and Problem Solving Lab(3)</i>	0	0	2	1
Total:			14	1	18	24

2nd Semester						
Subject Code	Name of the Course	Teaching Scheme			Credits	
		L	T	P		
Theory						
1	CSE123	Web Programming Through PHP and HTML	3	0	0	3
2	EEE101/CSE101	Basic Electrical and Electronics Engineering/Computer Programming and Problem solving	3	0	0	3
3	EVS102/HUM201	Environmental Science & Energy/ Psychology & Sociology	3	0	0	3
4	LLL101	Universal Human Values & Ethics	3	0	0	3

5	LLL123	English Proficiency and Aptitude Building I	0	0	4	2
6	MAT122	Matrices & Ordinary Differential Equations(12)	3	1	0	4
7	MEE152/MEE151	Workshop Practice/ Engineering Graphics	0	0	2	1
8	PHY121	Condensed Matter Physics	3	0	0	3
Practical						
1	<i>EEE151/CSE 151</i>	<i>Basic Electrical and Electronics Engineering Lab (6)/Computer Programming and Problem Solving Lab(3)</i>	0	0	2	1
2	PHY 141	Physics Lab II	0	0	2	1
3	CSE143	Web Programming Through PHP and HTML-Lab	0	0	2	1
Total:			18	1	12	25

3rd Semester						
Subject Code	Name of the Course	Teaching Scheme			Credits	
		L	T	P		
Theory						
1	CSE121	Object Oriented Programming	3	0	0	3
2	CSE312	Data Base Management System	3	0	0	3
3	CSE212	Data Structures and Algorithms	3	0	0	3
4	CSE218	Introduction to IT Infrastructure Landscape	2	0	0	2
5	CSE216	Digital Design	3	0	0	3
6	LLL213	English Proficiency and Aptitude Building -2	0	0	4	2
Practical						
1	CSE252	Data Structures and Algorithms Lab	0	0	2	1
2	CSE256	Digital Design Lab	0	0	2	1
3	CSE141	Object oriented programming Lab(10)	0	0	2	1
4	CSE352	Data Base Management System-Lab	0	0	2	1
5	CSE251	Dynamic Pradigm-I	0	0	2	1
Total:			14	0	14	21

4th Semester

Subject Code	Name of the Course	Teaching Scheme			Credits	
		L	T	P		
1	CSE213	Computer Architecture and Organization	3	0	0	3
2	CSE221	Theory of Automata and Formal Languages	3	1	0	4
3	CSE222	Operating System	3	0	0	3
4	CSE381	Data Communication and Computer Networks	3	0	0	3
5	CSE227	Introduction to Virtualization and Cloud Computing	3	0	0	3
6	MGT302	Industrial Economics and Management	3	0	0	3
Practical						
7	CSE242	Operating System Lab	0	0	2	1
8	CSE354	Computer Networks Lab	0	0	2	1
9	CSE247	Introduction to Virtualization and Cloud Computing-Lab	0	0	2	1
10	LLL222	English Proficiency and Aptitude Building -3	0	0	4	2
11	CSE241	Dynamic Paradigm-II	0	0	2	1
Total			18	1	12	25

5th Semester

Subject Code	Name of the Course	Teaching Scheme			Credits	
		L	T	P		
1	CSE311	Design and Analysis of Algorithms	3	0	0	3
2	CSE313	Compiler Design	3	0	0	3
3	CSE314	Computer Network	3	0	0	3
4	CSE322	Software Engineering	3	0	0	3
Elective-01						
5	CSE461	Introduction to Cloud Computing	3	0	0	3
	CSIO-101	Introduction to IoT	3	0	0	3
	CSE200	Programming in Python	2	0	2	3
Practical						
6	CSE351	Design and Analysis of Algorithms Lab	0	0	2	1
7	CSE353	Compiler Design Lab	0	0	2	1
8	CSE354	Computer Networks Lab	0	0	2	1
9	CSE342	Software Engineering Lab	0	0	2	1
10	LLL312	English Proficiency and Aptitude Building -4	0	0	4	2
Total:			15	0	14	21

6th Semester

Subject Code	Name of the Course	Teaching Scheme			Credits	
		L	T	P		
1	CSE220	Microprocessors and Interfacing	3	0	0	3
2	CSE321	Data Mining and Data Warehousing	3	0	0	3
3	CSE323	Computer Graphics	3	0	0	3
4	CSE411	Software Testing Methodologies	3	0	0	3
5	EMPS3012	Industry Oriented Java(4)	0	0	4	2
Programme Elective -II & III						
6&7	CSE473	Digital Image Processing	3	0	0	3
	CSE360	Artificial Intelligence	3	0	0	3
	CSE608	Machine Learning	3	0	0	3
	CSE374	Software Project Management	3	0	0	3
	CSE372	Wireless & Mobile Communication	3	0	0	3
	CSE517	Distributed System	3	0	0	3
Practical						
8	CSE451	Software Testing Methodologies Lab	0	0	2	1
9	CSE343	Computer Graphics Lab	0	0	2	1
10	CSE240	Microprocessor and Interfacing Lab	0	0	2	1
11	LLL322	Campus-to-Corporate	0	0	4	2
Total:			18	0	14	25

7th Semester

Subject Code	Name of the Course	Teaching Scheme			Credits	
		L	T	P		
1	CSE412	Web Technology	3	0	0	3
2	CSE522	Mobile Computing	3	0	0	3
3	CSE401	Network security	3	0	0	3
Programme Elective -V&VI						
4&5	CSE606	Big Data Analytics for IOT	3	0	0	3
	BCSE9003	Big Data Technology	3	0	0	3
	CSIO101	Introduction to IOT	3	0	0	3
	BCSE9004(PE5)	Programming for Data Analytics(11)	3	0	0	3
	BCSE9002	Cloud Application Development	3	0	0	3
Practical						
6	CSE452	Web Technology Lab	0	0	2	1
7	CSE453	Project 1 (Domain Based)	0	0	10	5
Total:			15	0	12	21

8th Semester						Credits
S. No.	Course Code	Course Title	L	T	P	
Practical						
1	CSE421	Project 2	0	0	30	15
Total:						

Total Credits 177