

Type of Course Sem	Major Core					Skill Enhancement	Ability Enhancement	Value Added Courses	Multi-disciplinary	OJT	Audit Course
	Discipline Core 1 & 2	Discipline Core 3 & 4	Discipline Core 5	Discipline Elective 1	Discipline Elective 2						
Semester I	1. Discrete Mathematics (4) 2. Programming Language (2)	3. Information Technology Essentials (2) 4. Web Technologies + Certiport Certification (2)	5. Basics of Electrical & Electronics Engg (2)	--	--	1. Engg Graphics and CAD Lab (2) 2. Programming Language – Lab (2)	1. Engg Graphics and CAD (2) 2. Electrical and Electronics Engg Lab (2)	--	--		Environmental Science and Engg (0)
Semester II	1. Engg Mathematics - Module I - Linear Algebra, Module II - Probability and Statistics Module III- Numerical Methods (4) 2. Theory of computing (2)	3. Data Structures and Algorithms (2) 4. Database System Concepts (2)	5. Computer Architecture (2)	--	--	1. Database System Lab + SQL Certification (2) 2. Physical computing Lab (2)	1. Computer Networks (2) 2. DS and CN Lab (2)	Carbon Credits/ Climate Change (1)			Universal Human Values (0)
Exit UG Certificate											
Semester III	1. Object Oriented Analysis and Design (2) 2. Operating Systems (Desktop, Mobiles) (2)	--	--	A. Full Stack frontend- Angular (4) B. Artificial Intelligence (4)	A. full stack development- Java Programming (4) B. Machine learning (with Certification) (4)	1. Capstone Project on Discipline Elective I and II (2)	1. OS and Data Science Lab (2)	--	1. Design Thinking and Innovation (2) 2. Fundamentals of Data Science (2)	--	A. Foreign Language I - Japanese / German / Chinese (0)
Semester IV	1. Software Engg and Agile Methodology (2) 2. Computer Graphics and Animation (3)	--	--	A. Full Stack framework- Java Web+ Spring Framework (3) B. Preparation and Analysis of Data (3)	A. Data Warehousing and Big Data (3) B. Deep Learning with certification (3) C. Data Storage Technologies	Capstone Project on Discipline Elective 1 and II (2)	Software Engg and Computer Graphics Lab (2)	(1)	1. Cloud Infra Fundamentals AWS Certification (3) 2. Intellectual property Rights IPR (2)	--	A. Foreign Language II - Japanese / German / Chinese (0) B. Entrepreneurship (0)

					and Networks (3)						
Diploma in Computer Technology											
Semester V	1. Compiler Construction (3) 2. UI / UX Design (3)			A. Full Stack-Microservices (4) B. Computational Linguistic Analysis (4)	A Full Stack-Cloud developing certification (4) B Business Analytics + Certification (4) C Video processing and Analysis (4)	Project (2)	Software Testing and Quality Assurance + Certification ISTQB (2)	--	MIS – (case study based) (2)		A. Foreign Language III - Japanese / German / Chinese(0) B. Entrepreneurship
Semester VI	--	--	--	--	--	--	Agile Scrum (4)	(1)	--	OJT (16)	Constitution of India (0)
Advanced Diploma in Computer Technology											
Semester VII	--	--	--	--	--	--	Engg. Economics/ Research Methodology (4)		--	OJT (16)	Disaster Management (0)
Semester VIII	--	--	--	--	--	--	Software Project Management (4)	(1)	--	OJT (16)	English for research paper writing/ Personality Development and Professional Ethics (0)
BTech in Computer Technology											