Curriculum

Computer Science & Engineering

Semester	Subjects	Credits
1	Mathematics-I for CSE Stream	4
	Applied Physics for CSE stream	4
	Principles of Programming Using C	3
	Introduction To Electronics And Communication	3
	Introduction To AI	3
	Communicative English	1
	Samskrutika Kannada/ Balake Kannada	1
	Innovation and Design Thinking	1
2	Mathematics-II for CSE Stream	4
	Applied Chemistry for CSE Stream	4
	Computer-Aided Engineering Drawing	3
	Introduction To Electrical Engineering	3
	Introduction To Python Programming	3
	Professional Writing Skills in English	1
	Indian Constitution	1
	Scientific Foundations of Health	1
3	Discrete Mathematics and Graph Theory	3
	Data Structures	3
	Digital Logic Design and Computer Organization	4
	Operating Systems	3
	Programming with Python	3
	Social Connect and Responsibility	1
	Introduction to Web Technologies	2
	National Service Scheme (NSS)	0
	Physical Education (PE) (Sports and Athletics)	0
	Yoga	0
	Data Structures Lab	0
4	Probability and Linear Algebra	3
	Design and Analysis of Algorithms	3
	Object Oriented Programming with Java	4
	Theory of Computation	3
	Unix Programming	3
	Universal Human Values	1
	Full Stack Framework (Front End)	2
	National Service Scheme (NSS)	0
	Physical Education (PE) (Sports and Athletics)	0
	Yoga	0
	Algorithms Laboratory	0
5	Software Engineering & Project Management	3
	Database Management Systems	3
	Computer Networks	4
	Full Stack Framework (Back End)	1
	Professional Elective - I	3
	Mini Project	2
	Research Methodology and IPR	3
	Environmental Studies	2
	National Service Scheme (NSS)	0
	Physical Education (PE) (Sports and Athletics)	0
	Yoga	0
	DBMS Laboratory	0
6	Cloud Computing	4
	Machine Learning	3
	Professional Elective - II	3
	Open Elective - I	3
	Major Project Phase - I	2
	Machine Learning Lab	1
	DevOps	2
	National Service Scheme (NSS)	0
	Physical Education (PE) (Sports and Athletics)	0
	Yoga	0
	Indian Knowledge System	0
7	Internet of Things	4
	Deep Learning	4
	Cryptography & Network Security	3
	Professional Elective - III	3
	Open Elective - II	3
	Major Project Phase - II	6
	Cryptography Lab	1
8	Professional Elective - IV (Online Course)	3
	Open Elective - III (Online Course)	3
	Internship (Industry /Research) (14-20 weeks)	10

Electives

Professional Electives

Computer Graphics
Robotic Process Automation
Data Visualization
Distributed Systems
Blockchain Technology
Compiler Design
Computer Vision
Advanced Java
Ethical Hacking
Natural Language Processing
Enterprise Data Warehousing
Big Data Analytics
Tosca – Automated Software Testing
Agile

Open Electives

Introduction to Data Structures
Fundamentals of Operating Systems
Mobile Application Development
Introduction to AI
Introduction to DBMS
Introduction to Algorithms
Software Engineering
Introduction to Networks