Curriculum
Information Science & Engineering

Semester	Subjects	Credits
1	Mathematics I for ISE/CSE Stream	4
	Applied Physics for ISE/CSE Stream	4
	Principles of programming using C	4
	Introduction to Electrical Engineering	3
	Introduction to AI	3
	Communicate English	1
	Samskrutika Kannada / Balake Kannada	1
2	Mathematics II for ISE/CSE Stream	4
	Chemistry for ISE/CSE Stream	4
	Advanced Programming in C	4
	Introduction to Electronics and Communication	3
	Computer Aided Engineering Drawing	3
	Professional Writing skills in English	1
	Scientific Foundation of Health	1
	Innovative and Design thinking	1
3	Discrete Mathematics – I (Branch Specific)	3
	Digital Logic Design and Computer Organization	4
	Data Structure (Integrated)	4
	Operating Systems	3
	Object Oriented Programming using Java	3
	Web Technology and LTS Applications (Integrated)	3
4	Discrete Mathematics -II (Branch Specific)	3
	Design and Analysis of Algorithms (Integrated)	4
	Database Management Systems (Integrated)	4
	Software Engineering	3
	Data Communications	3
	Mobile Application Development (Integrated)	3
5	Software Project Management and Economics	3
	Computer Networks	4
	Machine learning and its Applications	4
	Theory of Computation	3
	Data Analytics using R	3
	Environmental Science/ Universal Human Values	2
6	Cryptography and Network Security	3
	Full Stack Development	4
	Deep Learning (Integrated)	4
7	Storage Area Network	3
	Big data Analytics (Integrated)	4
	IOT and Its Applications	4
8	Software Architecture and Design Pattern	4
	Project work phase – II	8
	Technical Seminar	1
	Internship	2

Electives

System Software, Optimization Techniques

Natural Language Processing ,Object Oriented Modelling and Design

AI and Its Application ,Cloud Computing

.NET Framework for Applications, Business Intelligence

Blockchain Technologies, Computer Graphics

Software Defined Network, Software Testing

Green Computing, Wireless Sensor Networks

Social Network Analysis

Digital Image Processing