

# Curriculum

## Artificial Intelligence & Machine Learning

Semester	Subjects	Credits
1	Mathematics I For CSE Stream	4
	Applied Physics For CSE Stream (Integrated)	4
	Principles Of Programming Using C (Integrated)	4
	Introduction To Electrical Engineering	3
	Introduction To AI	3
	Communicative English	1
	Samskrutika Kannada / Balake Kannada	1
2	Mathematics II For CSE Stream	4
	Applied Chemistry For CSE Stream (Integrated)	4
	Advanced Programming In C (Integrated)	4
	Introduction To Electronics And Communication	3
	Computer Aided Engineering Drawing	3
	Innovation and design thinking	1
	Indian Constitution	1
3	Discrete Mathematics and Graph Theory	3
	Data Structures	3
	Python Programming	4
	Computer Organization and Operating System	3
	Machine Learning Foundation	3
	Social Connect and Responsibility	1
	Web Application Frameworks	3
	National Service Scheme (NSS)	0
	Physical Education (PE) (Sports and Athletics)	0
	Yoga	0
4	Data Structures Laboratory	
	Probability and Linear Algebra	3
	Design and Analysis of Algorithms	3
	Database Management Systems	4
	Machine Learning Techniques	3
	Object Oriented Programming using Java	3
	Universal human values course	1
	AI Tools, Frameworks & its Application I	3
	National Service Scheme (NSS)	0
	Physical Education (PE) (Sports and Athletics)	0
	Yoga	0
	Algorithms Laboratory	1
5	Engineering Economics	3
	Machine Learning Practices	4
	Big data Analytics	4
	Big data Analytics LAB	1
	Program Elective 1	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
6	Deep Learning Principles & Practices	4
	Natural Language Processing	4
	Program Elective 2	3
	Open Elective 1	3
	Project Phase 1	2
	Natural Language Processing LAB	1
	Ability Enhancement Course	1
	National Service Scheme (NSS)	0
	Physical Education (PE) (Sports and Athletics)	0
	Yoga	0
	Indian Knowledge System	0
7	Image analytics with Computer Vision	4
	Advance Natural Language Processing	4
	Quantum Computing	4
	Program Elective 3	3
	Open Elective 2	3
	Major Project Phase-II	6
8	Program Elective 4	3
	Open Elective (Online courses)	3
	Internship	10

### Electives

- DevOPs Essentials
- Microcontroller and Embedded System
- Introduction to Intelligent Networks
- Data-mining and Data warehousing
- Introduction to Robotics
- Business Intelligence
- Parallel and Distributed computing
- Artificial Intelligence In Block Chain
- Intelligent Embedded System
- Next-Gen Database Technology using MongoDB
- AI Tools, Frameworks & its Application II
- Data-mining and Data warehousing
- Human Computer Interaction
- Introduction to Robotics
- Business Intelligence
- Soft Computing
- Augment Reality and Virtual Reality
- Intelligent Robots and Drone Technologies
- High Performance Computing, Predictive Analysis and IoT