## Curriculum

## Computer Science & Engineering, Artificial Intelligence & Machine Learning

Semester	Subjects	Credits
	Mathematics I For CSE Stream	4
1	Applied Physics For CSE Stream (Integrated)	<b>4</b> <b>4</b>
	Principles Of Programming Using C (Integrated)	4
	Introduction To Electrical Engineering	3
	Introduction To Al	3
	Communicative English	1
	Samskrutika Kannada / Balake Kannada	1
	Innovation & Design Thinking	1
2	Mathematics II For CSE Stream	4
	Applied Chemistry For CSE Stream (Integrated)	4
	Introduction to Python Programming	4
	Introduction To Electronics And Communication  Computer Aided Engineering Drawing	3
	Innovation And Design Thinking	3 1
	Indian Constitution	1
	Innovation And Design Thinking	1
	Discrete Mathematics and Graph Theory	3
	Data Structures	4
	Fundamentals of python programming	4
	Operating Systems	3
	Introduction to Web Technologies	3
	Data Analytics with R	3
3	Ability Enhancement Course - I	2
	Computer Organisation and Architecture	
	Ethics and Public Policy for Al	
	National Service Scheme (NSS)	0
	Physical Education (PE) (Sports and Athletics)	0
	Yoga	0
	Data Structures Laboratory	1
	Probability and Linear Algebra	3
	Design and Analysis of Algorithms	3
	Database Management Systems	4
	Software Engineering	3
	Theory of Computation	3
	Unix System Programming	3
	Metrics Spaces	3
	Universal Human Values	1//////
4	Ability Enhancement Course - II	2
	Advanced Python	
	Object oriented Programming with java	
	Object oriented Programming with C++	
	National Service Scheme (NSS)	0
	Physical Education (PE) (Sports and Athletics)	0
	Yoga	0
	Algorithms Laboratory	1
	Management, Economics and Finance for IT Engineers	3
	Computer Networks Fundamentals of Machine Learning	4
	Fundamentals of Machine Learning Laboratory	4 1
	Professional Elective - I	3
5	Mini Project	2
	Ability Enhancement Course - III	3
	Research Methodology and IPR	
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	Environmental Studies	2
	National Service Scheme (NSS)	0
	Physical Education (PE) (Sports and Athletics)	0
	Yoga	0
	Cloud Computing	4
	Advanced Machine learning	4
	Professional Elective - II	3
	Open Elective -I	3
	Major Project Phase -I	2
	Advanced Machine learning Laboratory	1
	Ability Enhancement Course - IV	2
	Mongo DB	
	Data Visualization	
	National Service Scheme (NSS)	Ο
7	Physical Education (PE) (Sports and Athletics)	Ο
	Yoga	0
	Indian Knowledge System	0
	Natural Language processing	4
	Deep Learning	4
	Computer vision and image processing	4
	Professional Elective - III  Open Elective -II	3
	Open Elective -II  Major Project Phase -II	<b>3</b> 6
	Professional Elective - IV	3
	Open Elective - IV	3
8	Internship	10

## Electives

Block Chain and Its Applications

Social network Analysis

Google Cloud Computing Foundations

Professional Electives	Open Electives
Enterprise Java Programming	Chat GPT -AI Learning Models
Cryptography and network Security	Scala Programming
Fundamentals of Internet of Things	Introduction to Machien Learning
Data Mining & Data Warehousing	Mobile Application Development
Fundamentals of Cyber security	R Programming
Server side scripting	Java Programming
Network and data analaysis in IoT	Fundamentals of IoT
Fundamentals of Data Science	Digital Image Processing
Framework for Application Deployment	Cyber security and privacy
Ethical Hacking	Computer Vision
Industrial IoTBusiness Intelligence & Analytics	Big data Computing
Parameterised Algorithm	Responsible and Safe Al Systems