



(Applicable from the academic year 2024-25 and onwards)

(AI & ML)

B.Tech. – III Year I Semester

S.No.	Category	Title	L	T	P	Credits
1	Professional Core	Information Retrieval Systems	3	0	0	3
2	Professional Core	Computer Networks	3	0	0	3
3	Professional Core	Deep Learning with Applications	3	0	0	3
4	Professional Elective-I	1. Software Engineering 2. Digital Twin 3. Mobile Edge Computing 4. Optimization Techniques 5. Any of the 12-Week SWAYAM /NPTEL Course suggested by the BoS	3	0	0	3
5	Open Elective- I	Open elective offered by other department	3	0	0	3
6	Professional Core	Information Retrieval &Deep Learning Lab	0	0	3	1.5
7	Professional Core	Computer Networks Lab	0	0	3	1.5
8	SkillEnhancementcourse	NodesJS	0	1	2	2
9	ES	Tinkering Lab	0	0	2	1
10	EvaluationofCommunity ServiceInternship		-	-	-	2
Total			14	1	10	23



(Applicable from the academic year 2024-25 and onwards)

(AI & ML)

B.Tech.– III Year II Semester

S.No.	Category	Title	L	T	P	Credits
1	Professional Core	Operating System	3	0	0	3
2	Professional Core	Automata Theory & Compiler Design	3	0	0	3
3	Professional Core	Computer Vision	3	0	0	3
4	Professional Elective-II	Software Testing Methodology Cryptography & Network Security Internet of Things Recommender Systems Any of the 12-Week SWAYAM /NPTEL Course suggested by the BoS	3	0	0	3
5	Professional Elective-III	Software Project Management Ethical AI Data Visualization Soft computing Any of the 12-Week SWAYAM /NPTEL Course suggested by the BoS	3	0	0	3
6	Open Elective - III	Open elective offered by other department	3	0	0	3
7	Professional Core	Computer Vision Lab	0	0	3	1.5
8	Professional Core	Operating System lab	0	0	3	1.5
9	Skill Enhancement course	Soft skills	0	1	2	2
10	Audit Course	Technical Paper Writing & IPR	2	0	0	-
Total			20	1	8	23



(Applicable from the academic year 2024-25 and onwards)

(AI & ML)

B.Tech. – IV Year I Semester

S.No.	Category	Title	L	T	P	Credits
1	Professional Core	Natural Language Programming	3	0	0	3
2	Management Course-II	Management Science Human resource Management Entrepreneurship & Incubation	2	0	0	2
3	Professional Elective-IV	1. Federated Learning 2. NoSQL databases 3. Quantum Computing 4. Computational Neuroscience 5. Any of the 12-Week SWAYAM /NPTEL Course suggested by the BoS	3	0	0	3
4	Professional Elective-V	1. Agile methodologies 2. Big Data Analytics 3. Reinforcement Learning 4. High-performance Computing (HPC) 5. Any of the 12-Week SWAYAM /NPTEL Course suggested by the BoS	3	0	0	3
5	Open Elective-III	Open elective offered by other department	3	0	0	3
6	Open Elective-IV	Open elective offered by other department	3	0	0	3
7	Skill Enhancement Course	Prompt Engineering	0	1	2	2
8	AuditCourse	Gender Sensitization	2	0	0	-
9	Internship	Evaluation of Industry Internship	-	-	-	2
Total			19	1	02	21



(Applicable from the academic year 2024-25 and onwards)

(AI & ML)

B.Tech.– IV Year II Semester

S.No.	Category	Title	L	T	P	Credits
1	Internship & Project Work	Full semester Internship & Project Work	0	0	24	12

OPEN ELECTIVES OFFERED BY CSE (AI &ML) TO OTHER BRANCHES:

OPEN ELECTIVE -I	OPEN ELECTIVE -II
1. Introduction to Artificial Intelligence 2. Exploratory Data Analysis with Python 3. Web Technologies	1. Fundamentals of Data Base Management System 2. JAVA Programming 3. Social Media Analytics
OPEN ELECTIVE -III	OPEN ELECTIVE -IV
1. Introduction to Machine Learning 2. Data Wrangling and Pre-processing 3. Block Chain Technologies	1. Internet of Things 2. Fundamentals of Cloud Computing 3. Cyber Security