BOARD OF STUDIES (BOS) APPROVAL

COURSE STRUCTURE



For

I Year B.Tech. Degree Course

(Applicable for the batch admitted from 2025-26)

B.Tech in COMPUTER SCIENCE AND ENGINEERING

COURSE STRUCTURE & SYLLABUS (R25 Regulations)

I Year I Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.	S25MA101BS	Matrices and Calculus	3	1	0	4
2.	S25CH102BS	Engineering Chemistry	3	0	0	3
3.	S25EN103HS	English for Skill Enhancement	3	0	0	3
4.	S25EC104ES	Electronic Devices and Circuits	3	0	0	3
5.	S25CS105ES	Programming for Problem Solving	3	0	0	3
6.	S25CH106BS	Engineering Chemistry Lab	0	0	2	1
7.	S25CS107ES	Programming for Problem Solving Lab	0	0	2	1
8.	S25EN108HS	English Language and Communication Skills Lab	0	0	2	1
9.	S25ME109ES	Engineering Workshop	0	0	2	1
10.		Induction Program				
		Total Credits	**15**	**1**	**8**	**20**

I Year II Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.	S25MA201BS	Ordinary Differential Equations and Vector Calculus	3	0	0	3
2.	S25PH202BS	Advanced Engineering Physics	3	0	0	3
3.	S25ME203ES	Engineering Drawing and Computer Aided Drafting	2	0	2	3
4.	S25EE204ES	Basic Electrical Engineering	3	0	0	3
5.	S25CS205ES	Data Structures	3	0	0	3
6.	S25PH206BS	Advanced Engineering Physics Lab	0	0	2	1
7.	S25CS207ES	Data Structures Lab	0	0	2	1
8.	S25CS208ES	Python Programming Lab	0	0	2	1
9.	S25EE209ES	Basic Electrical Engineering Lab	0	0	2	1
10.	S25CS210ES	IT Workshop	0	0	2	1
		Total Credits	**14**	**0**	**12**	**20**

B.Tech in ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

COURSE STRUCTURE & SYLLABUS (R25 Regulations)

I Year I Semester

S.No.	Course Code	Course Title	L	T	P	Credits
1.	S25MA101BS	Matrices and Calculus	3	1	0	4
2.	S25PH102BS	Advanced Engineering Physics	3	0	0	3
3.	S25CS103ES	Programming for Problem Solving	3	0	0	3
4.	S25EE104ES	Basic Electrical Engineering	3	0	0	3
5.	S25ME105ES	Engineering Drawing and Computer Aided Drafting	2	0	2	4
6.	S25PH106BS	Advanced Engineering Physics Lab	0	0	2	1
7.	S25CS107ES	Programming for Problem Solving Lab	0	0	2	1
8.	S25EE108ES	Basic Electrical Engineering Lab	0	0	2	1
9.	S25CS109ES	IT Workshop	0	0	2	1
10.		Induction Program				
		Total Credits	**14**	**1**	**10**	**20**

I Year II Semester

S.No.	Course Code	Course Title	L	T	P	Credits
1.	S25MA201BS	Ordinary Differential Equations and Vector Calculus	3	0	0	3
2.	S25CH202BS	Engineering Chemistry	3	0	0	3
3.	S25CS203ES	Data Structures	3	0	0	3
4.	S25EC204ES	Electronic Devices and Circuits	3	0	0	3
5.	S25EN205HS	English for Skill Enhancement	3	0	0	3
6.	S25CH206BS	Engineering Chemistry Lab	0	0	2	1
7.	S25CS207ES	Data Structures Lab	0	0	2	1
8.	S25EN208HS	English Language and Communication Skills Lab	0	0	2	1
9.	S25ME209ES	Engineering Workshop	0	0	2	1
10.	S25CS208ES	Python Programming Lab	0	0	2	1
		Total Credits	**15**	**0**	**10**	**20**

B.Tech in COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

COURSE STRUCTURE & SYLLABUS (R25 Regulations)

I Year I Semester

S.No.	Course Code	Course Title	L	T	P	Credits
1.	S25MA101BS	Matrices and Calculus	3	1	0	4
2.	S25PH102BS	Advanced Engineering Physics	3	0	0	3
3.	S25CS103ES	Programming for Problem Solving	3	0	0	3
4.	S25EE104ES	Basic Electrical Engineering	3	0	0	3
5.	S25ME105ES	Engineering Drawing and Computer Aided Drafting	2	0	2	4
6.	S25PH106BS	Advanced Engineering Physics Lab	0	0	2	1
7.	S25CS107ES	Programming for Problem Solving Lab	0	0	2	1
8.	S25EE108ES	Basic Electrical Engineering Lab	0	0	2	1
9.	S25CS109ES	IT Workshop	0	0	2	1
10.		Induction Program				
		Total Credits	**14**	**1**	**10**	**20**

I Year II Semester

S.No.	Course Code	Course Title	L	T	P	Credits
1.	S25MA201BS	Ordinary Differential Equations and Vector Calculus	3	0	0	3
2.	S25CH202BS	Engineering Chemistry	3	0	0	3
3.	S25CS203ES	Data Structures	3	0	0	3
4.	S25EC204ES	Electronic Devices and Circuits	3	0	0	3
5.	S25EN205HS	English for Skill Enhancement	3	0	0	3
6.	S25CH206BS	Engineering Chemistry Lab	0	0	2	1
7.	S25CS207ES	Data Structures Lab	0	0	2	1
8.	S25EN208HS	English Language and Communication Skills Lab	0	0	2	1
9.	S25ME209ES	Engineering Workshop	0	0	2	1
10.	S25CS208ES	Python Programming Lab	0	0	2	1
		Total Credits	**15**	**0**	**10**	**20**

BOARD OF STUDIES (BOS) APPROVAL

COURSE STRUCTURE (CSE)



For

II to IV Years B.Tech. Degree Course

(Applicable for the batch admitted from 2026-27)

B.Tech in COMPUTER SCIENCE AND ENGINEERING

COURSE STRUCTURE (R25 Regulation)

II Year I SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25CS301PC	Discrete Mathematics	3	0	0	3
2	S25CS302PC	Computer Organization and Architecture	3	0	0	3
3	S25CS303PC	Object Oriented Programming through java	3	0	0	3
4	S25CS304PC	Software Engineering	3	0	0	3
5	S25CS305PC	Database Management Systems	3	0	0	3
6	S25MS306HS	Innovation and Entrepreneurship	2	0	0	2
7	S25CS307PC	Object Oriented Programming through java Lab	0	0	2	1
8	S25CS308PC	Software Engineering Lab	0	0	2	1
9	S25CS309PC	Database Management Systems Lab	0	0	2	1
10	S25CS310SD	Node JS/React JS/ Django	0	0	2	1
11	S25VA300ES	Environmental Science	1	0	0	1
		Total	**18**	**0**	**08**	**22**

II Year II SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25MA401PC	Computer oriented Statistical Methods	3	0	0	3
2	S25CS402PC	Operating Systems	3	0	0	3
3	S25CS403PC	Algorithm design and Analysis	3	0	0	3
4	S25CS404PC	Computer Networks	3	0	0	3
5	S25CS405PC	**Artificial Intelligence**	3	0	0	3
6	S25MA406PC	Computational Mathematics Lab	0	0	2	1
7	S25CS407PC	Operating Systems Lab	0	0	2	1
8	S25CS408PC	Computer Networks Lab	0	0	2	1
9	S25CS409PC	**Artificial Intelligence using Python Lab**	0	0	2	1
10	S25CS410SD	Data Visualization- R/ Python/ Power BI	0	0	2	1
		Total	**15**	**0**	**10**	**20**

III Year I SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25CS501PC	Automata Theory and Compiler Design	3	0	0	3
2	**S25CS502PC**	**Machine learning**	**3**	**0**	**0**	**3**
3	S25CS503PC	DevOps	3	0	0	3
4	S25CS51X	Professional Elective-I	3	0	0	3
5	S25CS51X	Open Elective-I	2	0	0	2
6	S25CS504PC	Compiler Design Lab	0	0	2	1
7	**S25CS505PC**	**Machine learning Lab**	**0**	**0**	**2**	**1**
8	S25CS506PC	DevOps Lab	0	0	2	1
9	S25CS507PC	Field-Based Research Project	0	0	4	2
10	S25CS508SD	UI Design – Flutter/ Android Studio	0	0	2	1
11	S25VA500HS	Indian Knowledge System	1	0	0	1
		Total	**15**	**0**	**12**	**21**

III Year II SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25CS601PC	Cryptography and Networks Security	3	0	0	3
2	S25CS602PC	Deep Learning	3	0	0	3
3	S25MS603HS	Business Economics and Financial Analysis	3	0	0	3
4	S25CS62X	Professional Elective-II	3	0	0	3
5	S25CS62X	Open Elective – II	2	0	0	2
6	S25CS604PC	Cryptography and Networks Security Lab	0	0	2	1
7	S25CS605PC	Deep Learning Lab	0	0	2	1
8	S25CS606PC	Advanced Data Structures using Python	0	0	2	1
9	S25EN607HS	Advanced English Communication Skills Laboratory	0	0	2	1
10	S25CS608SD	Prompt Engineering	0	0	2	1
11	S25VA600HS/ S25VA601HS/	Gender Sensitization Lab*/ Human Values and Professional Ethics*	1	0	0	1
		Total	**15**	**0**	**10**	**20**

***Note:** For the courses **Gender Sensitization Lab** and **Human Values and Professional Ethics** - one hour of instruction will be conducted on alternate weeks. For example, if a one-hour class for Gender Sensitization Lab is conducted this week, then a one-hour class for Constitution of India will be conducted in the following week.*

IV Year I SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25CS701PC	Natural Language Processing	3	0	0	3
2	S25CS702PC	Cyber Security	3	0	0	3
3	S25MS703HS	Fundamentals of Management	3	0	0	3
4	S25CS73X	Professional Elective-III	3	0	0	3
5	S25CS74X	Professional Elective – IV	3	0	0	3
6	S25CS73X	Open Elective – III	2	0	0	2
7	S25 CS704PC	Natural Language Processing Lab	0	0	2	1
8	S25 CS705PC	Cyber Security Lab	0	0	2	1
9	S25 CS706PC	Industry Oriented Mini Project/ Internship	0	0	4	2
		Total	**17**	**0**	**08**	**21**

IV Year II SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25CS85X	Professional Elective – V	3	0	0	3
2	S25CS86X	Professional Elective – VI	3	0	0	3
3	S25CS801PC	Project Work	0	0	28	14
		Total	**6**	**0**	**28**	**20**

Professional Elective-I

S25CS511PE	Computer Graphics
S25CS512PE	Introduction to Data Science
S25CS513PE	Software Testing Methodologies
S25CS514PE	Data Mining
S25CS515PE	Web Programming
S25CS516PE	Distributed Systems

Professional Elective-II

S25CS621PE	Image Processing
S25CS622PE	Block chain Technology
S25CS623PE	Software Project Management
S25CS624PE	Mining Massive Datasets
S25CS625PE	Full Stack Development
S25CS626PE	Generative AI

Professional Elective-III

S25CS731PE	Computer Vision
S25CS732PE	Scripting Languages
S25CS733PE	Vulnerability and Penetration Testing
S25CS734PE	Data Stream Mining
S25CS735PE	Cloud Computing
S25CS736PE	Information Retrieval Systems

Professional Elective-IV

S25CS741PE	Augmented Reality & Virtual Reality
S25CS742PE	Agile Methodology
S25CS743PE	Big Data Analytics
S25CS744PE	Quantum Computing
S25CS745PE	Robotic Process Automation
S25CS746PE	Cyber Forensics

Professional Elective-V

S25CS851PE	Social Media Mining
S25CS852PE	Nature Inspired Computing
S25CS853PE	Internet of Things
S25CS854PE	Game Theory
S25CS855PE	Mobile Application Development
S25CS856PE	Human Computer Interaction
S25CS857PE	**Agentic AI**

Professional Elective–VI

S25CS861PE	High Performance Computing
S25CS862PE	Edge Computing
S25CS863PE	Graph Theory
S25CS864PE	Adhoc and Sensor Networks
S25CS865PE	Sustainable Engineering
S25CS866PE	Distributed Databases
S25CS867PE	**Expert Systems**

Open Elective-1:

S25CS511OE	Operating Systems
S25CS512OE	Database Management Systems

Open Elective-2:

S25CS621OE	Introduction to Computer Networks
S25CS622OE	Software Engineering

Open Elective-3:

S25CS731OE	Algorithms Design and Analysis
S25CS732OE	Fundamentals of Cyber Security

BOARD OF STUDIES (BOS) APPROVAL

COURSE STRUCTURE

AIML



For

II to IV Years B.Tech. Degree Course

(Applicable for the batch admitted from 2026-27)

B.Tech in ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

COURSE STRUCTURE (R25 Regulations)

II Year I SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25MA301BS	Mathematical and Statistical Foundations	3	0	0	3
2	S25CS302PC	Computer Organization and Architecture	3	0	0	3
3	S25CS303PC	Object Oriented Programming through java	3	0	0	3
4	S25CS304PC	Software Engineering	3	0	0	3
5	S25CS305PC	Database Management System	3	0	0	3
6	S25MA306PC	Computational Mathematics Lab	0	0	2	1
7	S25CS307PC	Object Oriented Programming through Java Lab	0	0	2	1
8	S25CS308PC	Software Engineering Lab	0	0	2	1
9	S25CS309PC	Database Management Systems Lab	0	0	2	1
10	S25CS310SD	Node JS/React JS/Django	0	0	2	1
		Total	**15**	**0**	**10**	**20**

II Year II SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25CS401PC	Discrete Mathematics	3	0	0	3
2	S25CS402PC	Operating Systems	3	0	0	3
3	S25CS403PC	Algorithms Design and Analysis	3	0	0	3
4	S25CS404PC	Computer Networks	3	0	0	3
5	**S25CS405PC**	**Artificial Intelligence**	**3**	**0**	**0**	**3**
6	S25MS406HS	Innovation and Entrepreneurship	2	0	0	2
7	S25CS407PC	Operating Systems Lab	0	0	2	1
8	S25CS408PC	Computer Networks lab	0	0	2	1
9	**S25CS409PC**	**Artificial Intelligence Lab**	**0**	**0**	**2**	**1**
10	S25CS410SD	Data Visualization- R Programming/ Power BI	0	0	2	1
11	S25VA400HS	Indian Knowledge System	1	0	0	1
		Total	**18**	**0**	**08**	**22**

III Year I SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	**S25AI501PC**	**Machine learning**	**3**	**0**	**0**	**3**
2	**S25MS502HS**	**Business Economics and Financial Analysis**	**3**	**0**	**0**	**3**
3	S25AI503PC	Data Analytics and Visualization	3	0	0	3
4	S25CS51X	Professional Elective-I	3	0	0	3
5	S25AI51X	Open Elective-I	2	0	0	2
6	**S25AI504PC**	**Machine learning Lab**	**0**	**0**	**2**	**1**
7	S25AI505PC	Compiler Design Lab	0	0	2	1
8	S25AI506PC	Data Analytics and Visualization Lab	0	0	2	1
9	S25AI507PC	Field Based Research Project	0	0	4	2
10	S25AI508SD	UI Design –Flutter/ Android Studio	0	0	2	1
11	S25VA500HS/ S25VA501HS	Gender Sensitization*/ Human Values and Professional Ethics*	1	0	0	0.5+0.5
		Total	**15**	**0**	**10**	**21**

***Note:** For the courses **Gender Sensitization** and **Human Values and Professional Ethics** - one hour of instruction will be conducted on alternate weeks. For example, if a one-hour class for Gender Sensitization is conducted this week, then a one-hour class for Human Values and Professional Ethics will be conducted in the following week.*

III Year II SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	**S25AI601PC**	**Reinforcement Learning**	**3**	**0**	**0**	**3**
2	S25AI602PC	Deep Learning	3	0	0	3
3	**S25AI603PC**	**Automata theory and Compiler Design**	**3**	**0**	**0**	**3**
4	S25CS62X	Professional Elective-II	3	0	0	3
5	S25AI62X	Open Elective – II	2	0	0	2
6	**S25AI604PC**	**Reinforcement Learning Lab**	**0**	**0**	**2**	**1**
7	S25AI605PC	Deep Learning Lab	0	0	2	1
8	S25AI606PC	Chatbots Lab	0	0	2	1
9	S25EN607HS	English for Employability Skills Lab	0	0	2	1
10	S25AI608SD	Prompt Engineering	0	0	2	1
11	S25VA600ES	Environmental Science	1	0	0	1
		Total	**18**	**1**	**10**	**20**

IV Year I SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	**S25AI701PC**	**Natural Language Processing**	**3**	**0**	**0**	**3**
2	S25AI702PC	Generative AI	3	0	0	3
3	S25MS703HS	Fundamentals of Management for Engineers	3	0	0	3
4	S25CS73X	Professional Elective-III	3	0	0	3
5	S25CS74X	Professional Elective – IV	3	0	0	3
6	S25AI73X	Open Elective – III	2	0	0	2
7	**S25AI704PC**	**Natural Language Processing Lab**	**0**	**0**	**2**	**1**
8	S25AI705PC	Generative AI Lab	0	0	2	1
9	S25AI706PC	Industry Oriented Mini Project/ Internship	0	0	4	2
		Total	**17**	**0**	**8**	**21**

IV Year II SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25CS85X	Professional Elective – V	3	0	0	3
2	S25CS86X	Professional Elective – VI	3	0	0	3
3	S25AI801PC	Project Work	0	0	42	14
		Total	**9**	**0**	**22**	**20**

Professional Elective-I

S25CS511PE	Computer Graphics
S25CS512PE	Introduction to Data Science
S25CS513PE	Software Testing Methodologies
S25CS514PE	Data Mining
S25CS515PE	Web Programming
S25CS516PE	Distributed Systems

Professional Elective-II

S25CS621PE	Image Processing
S25CS622PE	Blockchain Technology
S25CS623PE	Software Project Management
S25CS624PE	Mining Massive Datasets
S25CS625PE	Full Stack Development
S25AI626PE	DevOps

Professional Elective – III

S25CS731PE	Computer Vision
S25AI732PE	Cryptography and Network Security
S25AI733PE	Penetration Testing and Incident Response
S25CS734PE	Data Stream Mining
S25CS735PE	Cloud Computing
S25CS736PE	Information Retrieval Systems

Professional Elective - IV

S25CS741PE	Augmented Reality & Virtual Reality
S25CS742PE	Agile Methodology
S25AI743PE	Big Data Technologies
S25CS744PE	Quantum Computing
S25CS745PE	Robotic Process Automation
S25CS746PE	Cyber Forensics

Professional Elective - V

S25CS851PE	Social Media Mining
S25CS852PE	Nature Inspired Computing
S25CS853PE	Internet of Things
S25CS854PE	Game Theory
S25CS855PE	Mobile Application Development
S25CS856PE	Human Computer Interaction
S25AI857PE	**Explainable AI**

Professional Elective - VI

S25CS861PE	High Performance Computing
S25CS862PE	Edge Computing
S25CS863PE	Graph Theory
S25CS864PE	Adhoc & Sensor Networks
S25CS865PE	Sustainable Engineering
S25CS866PE	Distributed Databases
S25AI867PE	**Responsible AI**

OPEN ELECTIVES

Open Elective I:

S25AI511OE	Fundamentals of AI
S25AI512OE	Machine Learning Basics

Open Elective II:

S25AI621OE	Introduction to Natural Language Processing
S25AI622OE	AI applications

Open Elective III:

S25AI731OE	Chatbots
S25AI732OE	Computer Vision with Open CV

BOARD OF STUDIES (BOS) APPROVAL

COURSE STRUCTURE

CSM



For

II to IV Years B.Tech. Degree Course

(Applicable for the batch admitted from 2026-27)

B.Tech in COMPUTER SCIENCE & ENGINEERING ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

COURSE STRUCTURE (R25 Regulations)

II Year I SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25MA301BS	Mathematical and Statistical Foundations	3	0	0	3
2	S25CS302PC	Computer Organization and Architecture	3	0	0	3
3	S25CS303PC	Object Oriented Programming through java	3	0	0	3
4	S25CS304PC	Software Engineering	3	0	0	3
5	S25CS305PC	Database Management System	3	0	0	3
6	S25MA306PC	Computational Mathematics Lab	0	0	2	1
7	S25CS307PC	Object Oriented Programming through Java Lab	0	0	2	1
8	S25CS308PC	Software Engineering Lab	0	0	2	1
9	S25CS309PC	Database Management Systems Lab	0	0	2	1
10	S25CS310SD	Node JS/React JS/Django	0	0	2	1
		Total	**15**	**0**	**10**	**20**

II Year II SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25CS401PC	Discrete Mathematics	3	0	0	3
2	S25CS402PC	Operating Systems	3	0	0	3
3	S25CS403PC	Algorithms Design and Analysis	3	0	0	3
4	S25CS404PC	Computer Networks	3	0	0	3
5	**S25CS405PC**	**Artificial Intelligence**	**3**	**0**	**0**	**3**
6	S25MS406HS	Innovation and Entrepreneurship	2	0	0	2
7	S25CS407PC	Operating Systems Lab	0	0	2	1
8	S25CS408PC	Computer Networks lab	0	0	2	1
9	**S25CS409PC**	**Artificial Intelligence using Python Lab**	**0**	**0**	**2**	**1**
10	S25CS410SD	Data Visualization- R Programming/ Power BI	0	0	2	1
11	S25VA400HS	Indian Knowledge System	1	0	0	1
		Total	**18**	**0**	**08**	**22**

III Year I SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	**S25AI501PC**	**Machine learning**	**3**	**0**	**0**	**3**
2	S25AI502PC	Automata theory and Compiler Design	3	0	0	3
3	S25AI503PC	Data Analytics and Visualization	3	0	0	3
4	S25CS51X	Professional Elective-I	3	0	0	3
5	S25AI51X	Open Elective-I	2	0	0	2
6	**S25AI504PC**	**Machine learning Lab**	**0**	**0**	**2**	**1**
7	S25AI505PC	Compiler Design Lab	0	0	2	1
8	S25AI506PC	Data Analytics and Visualization Lab	0	0	2	1
9	S25AI507PC	Field Based Research Project	0	0	4	2
10	S25AI508SD	UI Design –Flutter/ Android Studio	0	0	2	1
11	S25VA500HS/ S25VA501HS	Gender Sensitization*/ Human Values and Professional Ethics*	1	0	0	0.5+0.5
		Total	**15**	**0**	**10**	**21**

***Note:** For the courses **Gender Sensitization** and **Human Values and Professional Ethics** - one hour of instruction will be conducted on alternate weeks. For example, if a one-hour class for Gender Sensitization is conducted this week, then a one-hour class for Human Values and Professional Ethics will be conducted in the following week.*

III Year II SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25AI601PC	Natural Language Processing	3	0	0	3
2	S25AI602PC	Deep Learning	3	0	0	3
3	S25MS603HS	Business Economics and Financial Analysis	3	0	0	3
4	S25CS62X	Professional Elective-II	3	0	0	3
5	S25AI62X	Open Elective – II	2	0	0	2
6	S25AI604PC	Natural Language Processing Lab	0	0	2	1
7	S25AI605PC	Deep Learning Lab	0	0	2	1
8	S25AI606PC	Chatbots Lab	0	0	2	1
9	S25EN607HS	English for Employability Skills Lab	0	0	2	1
10	S25AI608SD	Prompt Engineering	0	0	2	1
11	S25VA600ES	Environmental Science	1	0	0	1
		Total	**18**	**1**	**10**	**20**

IV Year I SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25AI701PC	Reinforcement Learning	3	0	0	3
2	S25AI702PC	Generative AI	3	0	0	3
3	S25MS703HS	Fundamentals of Management for Engineers	3	0	0	3
4	S25CS73X	Professional Elective-III	3	0	0	3
5	S25CS74X	Professional Elective – IV	3	0	0	3
6	S25AI73X	Open Elective – III	2	0	0	2
7	S25AI704PC	Reinforcement Learning Lab	0	0	2	1
8	S25AI705PC	Generative AI Lab	0	0	2	1
9	S25AI706PC	Industry Oriented Mini Project/ Internship	0	0	4	2
		Total	**16**	**0**	**8**	**20**

IV Year II SEMESTER

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25CS85X	Professional Elective – V	3	0	0	3
2	S25CS86X	Professional Elective – VI	3	0	0	3
3	S25AI801PC	Project Work	0	0	42	14
		Total	**9**	**0**	**22**	**20**

Professional Elective-I

S25CS511PE	Computer Graphics
S25CS512PE	Introduction to Data Science
S25CS513PE	Software Testing Methodologies
S25CS514PE	Data Mining
S25CS515PE	Web Programming
S25CS516PE	Distributed Systems

Professional Elective-II

S25CS621PE	Image Processing
S25CS622PE	Blockchain Technology
S25CS623PE	Software Project Management
S25CS624PE	Mining Massive Datasets
S25CS625PE	Full Stack Development
S25AI626PE	DevOps

Professional Elective – III

S25CS731PE	Computer Vision
S25AI732PE	Cryptography and Network Security
S25AI733PE	Penetration Testing and Incident Response
S25CS734PE	Data Stream Mining
S25CS735PE	Cloud Computing
S25CS736PE	Information Retrieval Systems

Professional Elective - IV

S25CS741PE	Augmented Reality & Virtual Reality
S25CS742PE	Agile Methodology
S25AI743PE	Big Data Technologies
S25CS744PE	Quantum Computing
S25CS745PE	Robotic Process Automation
S25CS746PE	Cyber Forensics

Professional Elective - V

S25CS851PE	Social Media Mining
S25CS852PE	Nature Inspired Computing
S25CS853PE	Internet of Things
S25CS854PE	Game Theory
S25CS855PE	Mobile Application Development
S25CS856PE	Human Computer Interaction
S25AI857PE	**Explainable AI**

Professional Elective - VI

S25CS861PE	High Performance Computing
S25CS862PE	Edge Computing
S25CS863PE	Graph Theory
S25CS864PE	Adhoc & Sensor Networks
S25CS865PE	Sustainable Engineering
S25CS866PE	Distributed Databases
S25AI867PE	**Responsible AI**

OPEN ELECTIVES

Open Elective I:

S25AI511OE	Fundamentals of AI
S25AI512OE	Machine Learning Basics

Open Elective II:

S25AI621OE	Introduction to Natural Language Processing
S25AI622OE	AI applications

Open Elective III:

S25AI731OE	Chatbots
S25AI732OE	Computer Vision with Open CV

SERVICE SUBJECTS RENDERING TO DEPARTMENT OF ECE

II B.Tech I SEM

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25EC310SD	Linux and Shell Scripting	0	0	2	1

II B.Tech II SEM

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25EC410SD	Web and Mobile Applications	0	0	2	1

III B.Tech I SEM

Professional Elective - I

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25EC513PE	Data Communications and Computer Networks	3	0	0	3
2	S25EC514PE	Computer Organization and Operating Systems	3	0	0	3

IV B.Tech I SEM

Professional Elective - IV

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25EC741PE	Artificial Neural Networks and Deep Learning	3	0	0	3

IV B.Tech II SEM

Professional Elective - V

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25EC854PE	Network Security and Cryptography	3	0	0	3

Professional Elective - VI

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25EC862PE	Quantum Technologies	3	0	0	3

OPEN ELECTIVES

Open Elective – I

S.NO	Course Code	Course Title	L	T	P	Credits
1	S25EC512OE	Fundamentals of Cyber Physical Systems	3	0	0	3