B.Tech (Computer Science and Engineering-AI/ML Specialization)

SEMESTER: IV

COURSE MODULE			
COURSE			Cre dits
Code	Title	Compo nent	
TCS-464	Deep Learning	DSC	3
TCS-402	Finite Automata and Formal Languages	DSC	3
TCS-403	Microprocessors	DSC	3
TCS-409	Design and Analysis of Algorithms	DSE	3
	Discipline Specific Elective-I	DSC	3
PCS-464	Deep Learning Lab	DSC	1
PCS-403	Microprocessors Lab	DSC	1
PCS-409	DAA Lab	DSC	1
XCS-401	Career Skills	SEC	1
PESE 400	Practical for Employability Skill Enhancement	SEC	1
SCS-401	MOOCS Seminar	VAC	1
GP-401	General Proficiency	SEC	1
	Indian Constitution (Non Graded)	MNG	2

DISCIPLINE SPECIFIC ELECTIVE-I

COURSE CODE	COURSE NAME
TCS-445	Responsible and Explainable AI
TCS-451	Virtualization and Cloud Computing
TCS-471	Statistical Data Analysis with R
TCS-495	Foundation of Cyber Security
TCS-408	Programming in Java

SEMESTER: VI

COURSE MODULE			
COURSE			**Credits**
Code	**Title**	**Component**	
TCS-601	Compiler Design	DC	3
TCS-611	Software Engineering	DC	3
TCS-682	Advanced Machine Learning	DC	3
TCS-693	Full Stack Web Development	DC	3
	Discipline Specific Elective-III	DE/GE	3
PCS-682	Advanced Machine Learning Lab	DC	2
PCS-601	Compiler Design Lab	DC	2
PCS-693	Web Development Lab	DC	2
XCS-601	Career Skills	VA	1
PESE 600	Practical for Employability Skill Enhancement	SEC	1
SCS-601	MOOCS Seminar	VA	1
GP-601	General Proficiency	SE	1

DISCIPLINE SPECIFIC ELECTIVE-III

COURSE CODE	COURSE NAME
TCS-645	AI in Creative Field
TCS-651	Devops on cloud
TCS-692	Large Language Models and Generative AI
TCS-675	Introduction to Virtual Reality
TCS-619	Network and system security
TCS-684	Information Retrieval
TCS-671	Bigdata Storage and Processing

TOE-811	Mobile Computing
TOE-803	Corporate Leadership
TOE-805	Wind and Solar Energy Systems
806	Mobile Adhoc Networks