

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

SEMESTER: III

COURSE MODULE				TEACHING PERIODS			Contact Hours	WEIGHTAGE : EVALUATION			
COURSE			Credits	L	T	P		CIE	MSE	ESE	Total
Code	Title	Component									
TCS-308	Logic Design and Computer Organization	DSC	3	3	-	-	3	25	25	50	100
TCS-302	Data Structures with C	DSC	3	3	-	-	3	25	25	50	100
TCS-346	Python Programming	DSC	3	3	-	-	3	25	25	50	100
	Discipline Specific Elective-I	DSE	3	3	-	-	3	25	25	50	100
TCS-364	Fundamentals of AI and ML	DSC	3	3	-	-	3	25	25	50	100
PCS-308	Logic Design and Computer Organization Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-302	Data Structures Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-364	AI and ML Lab using Python	DSC	1	-	-	2	2	25	25	50	100
XCS-301	Career Skills-I	SEC	1	1	-	-	1	25	25	50	100
XCS-310	Career Skills Lab-I	SEC	1	-	-	2	2	25	25	50	100
CSP-301	Mini Project	AEC	1	-	-	-	-	-	-	100	100
SCS-301	MOOCS Seminar	VAC	1	-	-	-	-	-	-	100	100
GP-301	General Proficiency	SEC	1	-	-	-		100	-	-	100
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DISCIPLINE SPECIFIC ELECTIVE-I

COURSE CODE	COURSE NAME
TCS-344	Probability and Random Process
TCS-351	Fundamental of Cloud Computing and Bigdata
TCS-392	Introduction to Cryptography
TCS-331	Fundamental of IoT
TCS-346	Python Programming
TCS-332	Fundamentals of Information Security and Block Chain
TCS-362	Statistical Learning for Reliability Analysis (Through Swayam)

SEMESTER: V

COURSE MODULE				TEACHING PERIODS			Contact Hours	WEIGHTAGE:EVALUATION			
COURSE			Credits	L	T	P		CIE	MSE	SEE	Total
Code	Title	Component									
TCS-512	Artificial Intelligence and Machine Learning	DC	3	3	-	-	3	25	25	50	100
TCS-502	Operating Systems	DC	3	3	-	-	3	25	25	50	100
TCS-503	Data Base Management Systems	DC	3	3	-	-	3	25	25	50	100
TCS-511	Computer Networks	DC	3	3	-	-	3	25	25	50	100
	Discipline Specific Elective-III	DE/GE	3	3	-	-	3	25	25	50	100
	Industry Specific Elective	DE/GE	2	2	-	-		2	2	-	-
PCS-506	Operating Systems Lab	DC	2	1	-	2	2	25	25	50	100
PCS-503	DBMS Lab	DC	2	1	-	2	2	25	25	50	100
PCS-512	AI & ML Lab	DC	2	1	-	2	2	25	25	50	100
XCS-501	Career Skills	VA	1	1	-	-	1	25	25	50	100
XCS-510	Career Skills Lab	VA	1	-	-	1	1	25	25	50	100
CSP-501	Mini Project	AE	1	-	-	-		-	-	100	100
SCS-501	MOOCS Seminar		1	-	-	-		-	-	100	100
GP-501	General Proficiency	SE	1	-	-	-		-	-	100	100

DISCIPLINE SPECIFIC ELECTIVE-III

COURSE CODE	COURSE NAME
TCS-592	Deep Learning Fundamentals
TCS-548	Computer Vision
TCS-591	Computer System security
TCS-565	Android Mobile Application Development (Through Swayam)
TCS-566	Cognition and its Computation (Through Swayam)
TCS-561	Artificial Intelligence: Search Methods for Problem Solving (Through Swayam)

INDUSTRY SPECIFIC ELECTIVE

COURSE CODE	COURSE NAME
TCS-516	Exploratory Data Analysis
TCS-517	AI for Real World Applications
TCS-518	Data Modelling and Visualization
TCS-519	Natural Language Processing