

M. Tech Computer Engineering (AI & ML)

(Theory Courses)

Syllabus



Department of Computer Engineering

Jamia Millia Islamia

M. TECH. COMPUTER ENGINEERING COURSE STRUCTURE UNDER THE CHOICE BASED CREDIT SYSTEM (CBCS)

Codes for nature of courses

L : Lecture courses
P : Laboratory Based courses
S : Seminar/ Independent Study

Category of Courses

CORE : Departmental courses

Weight age for Course Evaluation

L : Lecture **T :** Tutorial **P :** Practical **CCA :** Continuous Class Assessment **MTE**
:Mid Term Exam

M. TECH. COMPUTER ENGINEERING (AI &ML)-1st YEAR (Effective from July 2024)

S.No.	Course No.	Course Name	Type of Course	Credit	Periods/ week			Examination Scheme (Distribution of Marks)				
								Mid Semester Evaluation			End Semester Evaluation	Total Marks
					L	T	P	CCA	MT E-1	MT E-2		
THEORY												
First Semester												
01	MCEN-101	Cryptography & Network Security	Core	4	3	1	-	10	15	15	60	100
02	MCEN-102	Data Analytics	Core	4	3	1	-	10	15	15	60	100
03	MCEN-103	Advance Communication Network	Core	4	3	1	-	10	15	15	60	100
04	MCEN-104	Algorithm Design	Core	4	3	1	-	10	15	15	60	100
05	MCEN-105	ADBMS	Elective	4	3	1	-	10	15	15	60	100
PRACTICAL (LAB.)												
06	MCEN-191	Algorithm & Data Base Design Lab		2	-	-	4	10	10	10	20	50
07	MCEN-192	Data Analytics Lab		2	-	-	4	10	10	10	20	50
				Total	24						Total	600
THEORY												
Second Semester												
01	MCEN-201	Machine Learning (CBCS)	Core	4	3	1	-	10	15	15	60	100
02	MCEN-202	Parallel Computing	Core	4	3	1	-	10	15	15	60	100
03	MCEN-203	Soft Computing	Core	4	3	1	-	10	15	15	60	100
04	MCEN-204	Wireless Technologies for WSN & IoT	Elective	4	3	1	-	10	15	15	60	100
05	MCEN-205	Intelligent Systems	Elective	4	3	1	-	10	15	15	60	100
PRACTICAL (LAB.)												
06	MCEN-291	Soft Computing Lab	Lab	2	-	-	4	10	10	10	20	50
07	MCEN-292	Machine Learning & IoT Lab	Lab	2	-	-	4	10	10	10	20	50
08	MCEN-293	Seminar		2	-	-	4	10	10	10	20	50

Total														26	Total														650

M. TECH. COMPUTER ENGINEERING COURSE STRUCTURE UNDER THE CHOICE BASED CREDIT SYSTEM (CBCS)

M. TECH. COMPUTER ENGINEERING (AI & ML)–2nd YEAR (Effective from July 2025)

		Third Semester												
S.No.	Course No.	Course Name	Type of Course	Credit	Periods / week			Examination Scheme (Distribution of Marks)					Total Marks	
					L	T	P	Mid Semester Evaluation			End Semester Evaluation			
								CCA	MT E-1	M TE -2				
THEORY														
Third Semester														
01	MCEN-302	Image Processing	Elective	4	3	1	-	10	15	15		60	100	
02	MCEN-303	Deep Learning	Core	4	3	1	-	10	15	15		60	100	
PRACTICAL (LAB.)														
04	MCEN-391	Minor Project		6	-	-	10	30	30	30		60	150	
Total				14									350	
THEORY														
Fourth Semester														
01	CEN-491	Dissertation		12	-	-	20	180				120	300	
Total				12									Total	300

Total Credits: 76

Total Marks: 1900