



ख्वाजा मुईनुद्दीन चिश्ती भाषा विश्वविद्यालय, लखनऊ, उत्तर प्रदेश (भारत)
Khwaja Moinuddin Chishti Language University, Lucknow, U.P. (India)

U.P. STATE GOVERNMENT UNIVERSITY,
(Recognised Under Section 2(f) & 12(B) of the UGC Act, 1956 & B.Tech. Approved by (AICTE))

FACULTY OF ENGINEERING & TECHNOLOGY
KHWAJA MOINUJUSNDDIN CHISHTI LANGUAGE
UNIVERSITY, LUCKNOW, UTTAR PRADESH



M.TECH.
Computer Science & Engineering
(Artificial Intelligence & Machine Learning)

CURRICULUM STRUCTURE
FIRST AND SECOND YEAR
(I, II, III & IV SEMESTER)

[EFFECTIVE FROM SESSION 2024-25]



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STUDY & EVALUATION SCHEME											
M.TECH. (COMPUTER SCIENCE AND ENGINEERING: ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)											
FIRST YEAR FIRST SEMESTER											
Theory Subjects			EVALUATION SCHEME								
S.No.	Subject Code	Name of the Subject	Periods			Sessional Assessment			SEE	Subject Total	Credits
			L	T	P	MST	TA	Total			
1	TML-101	Mathematical Foundation for Artificial Intelligence and Machine Learning	3	0	0	15	15	30	70	100	3
2	TML-102	Advanced Data Structures and Algorithms	2	0	0	15	15	30	70	100	2
3	TML-103	Artificial Intelligence and Neural Networks	3	0	0	15	15	30	70	100	3
4	TML-104	Machine Learning using Python	3	0	0	15	15	30	70	100	3
5	TMLE-(011 – 014)	Elective I	3	0	0	15	15	30	70	100	3
6	TMLE-(015 – 018)	Elective II	3	0	0	15	15	30	70	100	3
		Total	17	0	0	90	90	180	420	600	17
Laboratory Courses											
7	TML-151	Advanced Data Structures and Algorithms Lab	0	0	2	0	0	30	70	100	1
8	TML-152	Artificial Intelligence Lab	0	0	2	0	0	30	70	100	1
9	TML-153	Python Programming Lab	0	0	2	0	0	30	70	100	1
		Total	0	0	6	0	0	90	210	300	3
		GRAND TOTAL	17	0	6	90	90	270	630	900	20

Elective I

TMLE-011 Agent Based Intelligent systems
 TMLE-012 Cloud Computing
 TMLE-013 Web and Big Data Mining
 TMLE-014 Advanced Biomedical Imaging

Elective II

TMLE-015 Robotics
 TMLE-016 Virtual Reality
 TMLE-017 Data Analytics and Visualization
 TMLE-018 Financial Analytics



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STUDY & EVALUATION SCHEME											
M.TECH. (COMPUTER SCIENCE AND ENGINEERING: ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)											
FIRST YEAR SECOND SEMESTER											
Theory Subjects			EVALUATION SCHEME								
S.No.	Subject Code	Name of the Subject	Periods			Sessional Assessment			SEE	Subject Total	Credits
			L	T	P	MST	TA	Total			
1	TML-201	Research Methodology and Intellectual Property Rights	3	0	0	15	15	30	70	100	3
2	TML -202	Data Science	3	0	0	15	15	30	70	100	3
3	TML -203	Self-Driven Devices using Artificial Intelligence and Machine Learning	3	0	0	15	15	30	70	100	3
4	TML -204	Advanced Database Management System	2	0	0	15	15	30	70	100	2
5	TMLE-(021 – 024)	Elective III	3	0	0	15	15	30	70	100	3
6	TMLE-(025 – 028)	Elective IV	3	0	0	15	15	30	70	100	3
		Total	17	0	0	90	90	180	420	600	17
Laboratory Courses											
7	TML -251	Data Science Lab	0	0	2	0	0	30	70	100	1
8	TML -252	Machine Learning Lab	0	0	2	0	0	30	70	100	1
9	TML -253	Seminar I	0	0	2	0	0	30	70	100	1
		Total	0	0	6	0	0	90	210	300	3
		GRAND TOTAL	17	0	6	90	90	270	630	900	20

Elective III

TMLE-021 Big Data Analytics

TMLE-022 Block Chain Technology

TMLE-023 Pattern Recognition Theory & Applications

TMLE-024 Reinforcement Learning

Elective IV

TMLE-025 Digital Image Processing

TMLE-026 Natural Language Processing

TMLE-027 Cluster Computing

TMLE-028 Deep Learning



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STUDY & EVALUATION SCHEME											
M.TECH. (COMPUTER SCIENCE AND ENGINEERING: ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)											
SECOND YEAR THIRD SEMESTER											
Subjects			EVALUATION SCHEME								
S.No.	Subject Code	Name of the Subject	Periods			Sessional Assessment			SEE	Subject Total	Credits
			L	T	P	MST	TA	Total			
1	TML-351	Seminar II	0	0	6	0	100	100	100	200	3
2	TML-352	Dissertation - I	0	0	14	0	100	100	300	400	7
Total			0	0	20	0	200	200	400	600	10

STUDY & EVALUATION SCHEME											
M.TECH. (COMPUTER SCIENCE AND ENGINEERING: ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)											
SECOND YEAR FOURTH SEMESTER											
Subjects			EVALUATION SCHEME								
S.No.	Subject Code	Name of the Subject	Periods			Sessional Assessment			SEE	Subject Total	Credits
			L	T	P	MST	TA	Total			
1	TML-451	Dissertation - II	0	0	20	0	0	200	400	600	10
Total			0	0	20	0	0	200	400	600	10