



Curriculum and Credit Framework
For
Postgraduate Programmes
[Master of Science in Information Technology]

(Academic Year 2026-27)

AURO UNIVERSITY
#earthspace, Opp. ONGC, Bhatpore, Hazira Road
Surat 394510, Gujarat

School of Information Technology
MSc-AI
Semester-wise Curriculum Structure

Semester - 1

S.No	Course Title	L	T	P	Credits
1.	Artificial Intelligence and Machine Learning	4	0	0	4
2	Python Programming	3	0	0	3
3.	Internet of Things for Industry 4.0	3	0	0	3
4.	Real Time Operating System	4	0	0	4
	Any one of the following electives (Elective-I):	3	0	1	4
5.	Data Mining				
	Business Intelligence				
6	Python Programming Lab	0	0	2	1
7.	Internet of Things Lab	0	0	2	1
8.	Science of Living I	2	0	0	2
9.	Physical Education, Sports & Yoga – I (Audit Course)	0	0	2	1
Total Credits					23

Semester - 2

Sr. No	Course Title	L	T	P	Credits
1.	Neural Networks and Deep Learning	3	0	0	3
2.	Prompt Engineering and LLM Applications	3	0	0	3
3.	Natural Language Processing (NLP)	3	0	0	3
4.	Application of Machine Learning in Industries	4	0	0	4
	Any one of the following Electives (Elective-II):	3	0	1	4
5.	Computer Vision and Digital Image Processing				
	Data Analytics using R				
6.	Deep Learning Lab	0	0	2	1
7.	NLP Lab	0	0	2	1
8.	Prompt Engineering Lab	0	0	2	1
9.	Science of Living II	2	0	0	2
10.	Physical Education, Sports & Yoga – II (Audit)	0	0	2	1
Total		18	0	10	23

Total of SEMESTER 2 (22+ 1)	23
Total Credits for FIRST YEAR	46

Semester - 3

Sr. No	Course Title	L	T	P	Credits
1.	Reinforcement Learning	4	0	0	4
2.	Cloud AI and MLOps	3	0	0	3
3.	Agentic AI and Autonomous Systems	3	0	0	3
4.	Generative AI and Foundation Models	4	0	0	4
	Any one of the following electives (Elective-III):	3	0	1	4
5.	Quantum Computing for AI				
	Blockchain Technology				
6.	Cloud AI and MLOps Lab	0	0	2	1
7.	Agentic AI Lab	0	0	2	1
8.	Internship	0	0	8	4
9.	Science of Living III	2	0	0	2
10.	Physical Education, Sports & Yoga – III (Audit)	0	0	2	1
Total		19	0	14	27

Total of SEMESTER 3 (26+ 1)	27
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Semester - 4

S.No ·	Course Title	Total Number of Contact Hours			Credit s
		L	T	P	
1.	Major Project	0	0	48	24

Total of SEMESTER 4	24
Total Credits for Second YEAR (27+24)	51