

School of Computational Intelligence

MCA (Artificial Intelligence)

Semester I

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	MCAI 1611	Computer Organization	3	0	0	3	3
2.	MCAI 1612	Mathematical Foundations of Computer Science	3	0	0	3	3
3.	MCAI 1613	Problem Solving and Programming	3	0	2	5	4
4.	MCAI 1614	Statistics and Queuing Theory	3	0	0	3	3
5.	MCAI 1615	Managerial Economics	3	0	0	3	3
6.	MCAI 2611	Computer Game Development and Animation	0	1	2	3	2
7.	MCAI 2612	R Programming Lab	0	1	2	3	2
		TOTAL	15	2	6	23	20

Semester II

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	MCAI 1621	Database Systems	3	0	2	5	4
2.	MCAI 1622	Data Structures	3	0	2	5	4
3.	MCAI 1623	Web Technologies	3	0	2	5	4
4.	MCAI 1624	Object Oriented Programming	3	0	2	5	4
5.	MCAI 1625	Management Theory and Practice	3	0	0	3	3
		TOTAL	15	0	8	23	19

Semester III

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	MCAI 1631	Advanced Databases	3	0	2	5	4
2.	MCAI 1632	Advanced Data Structures	2	0	0	2	2
3.	MCAI 1633	Software Engineering Principles	3	0	2	5	4
4.	MCAI 1634	Operating System Concepts	3	0	2	5	4
5.	MCAI 1635	Computer Communications and Network	3	0	2	5	4
6.	MCAI 1636	Artificial Intelligence	3	0	2	5	4
		TOTAL	17	0	10	27	22

Semester IV

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	MCAI 1641	Mobile Applications Development	2	0	2	4	3
2.	MCAI 1642	Software Testing	3	0	2	5	4
3.	MCAI 1643	Algorithm Analysis and Design	3	0	0	3	3
4.	MCAI 1644	Principles of Data Warehousing and Data Mining	3	0	0	3	3
5.	MCAI 1645	Python Programming	2	0	2	4	3
6.	MCAI 2641	Knowledge Engineering Lab	0	0	2	2	1
7.	PEAI 164#	PSE I	2	0	2	4	3
8.	PEAI 164#	PSE II	2	0	2	4	3
		TOTAL	17	0	12	29	23

Program Specific Electives (PSE) for Semester IV:

Sl. No	Course Code	Course Title
1.	PEAI 1641	Natural Language Processing
2.	PEAI 1642	Deep Learning for AI
3.	PEAI 1643	Data Engineering for AI
4.	PEAI 1644	IoT for AI

Semester V

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	MCAI 1651	Cryptography and Network Security	3	0	2	5	4
2.	MCAI 1652	Internet of Things	3	0	2	5	4
3.	MCAI 1653	Machine Learning	3	0	2	5	4
4.	MCAI 6651	Seminar & Comprehensive Viva-voce					3
5.	PEAI 165#	PSE IV	2	0	2	4	3
6.	PEAI 165#	PSE V	2	0	2	4	3
7.	PEAI 165#	PSE VI	2	0	2	4	3
		TOTAL	15	0	12	27	24

Program Specific Electives (PSE) for Semester IV:

Sl. No	Course Code	Course Title
1.	PEAI 1651	Artificial Intelligence for Robotics
2.	PEAI 1652	AI for Drug Discovery & Target Validation
3.	PEAI 1653	Medical Signal Processing
4.	PEAI 1654	Applied Predictive Analytics
5.	PEAI 1655	No-SQL Databases
6.	PEAI 1656	Computer Vision

Semester VI

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	MCAI 5661	Dissertation/Internship					12
		TOTAL					22

Semester-wise Credit Load

Semester	L	T	P	Credits
I	15	2	6	20
II	15	0	8	19
III	17	0	10	22
IV	17	0	12	23
V	15	0	12	24
VI				12
Total	78	2	48	120