RAMAKRISHNAMISSIONVIDYAMANDIRA
Syllabus for M.Sc. Computer Science &Machine Intelligence

SEMESTER– I

Course code	Course title	Credits	Marks	No. of Hours/Week		
				L	T	P
Theoretical						
CSMI CC1	Artificial Intelligence (AI)	4	50	5	1	0
CSMI CC2	Essential Statistics and Mathematics for AI and Machine Learning (ML)	4	50	5	1	0
CSMI CC3	Advanced Algorithms and Data Structures	4	50	5	1	0
Practical						
CSMI CC4	AI Problem Solving Lab using Python & Statistics Essentials using R Programming Lab	4	25+25	0	2	6
CSMI CC5	Advanced Algorithms and Data Structures Lab	4	25+25	0	2	6
	Total	**20**	**250**			

SEMESTER– II

Course code	Course title	Credits	Marks	No. of Hours/Week		
				L	T	P
Theoretical						
CSMI CC6	Introduction to Machine Learning	4	50	5	1	0
CSMI CC7	Advanced Architecture and System Programming	4	50	5	1	0
CSMI CC8	Internet-of-Things (IoT)	4	50	5	1	0
Practical						
CSMI CC9	Machine Learning Lab, Advanced Architecture and System Programming Lab	2+2	25+25	0	2	6
CSMI CC10	IoT Lab using Raspberry Pi/Arduino, Minor Project and Presentation	2+2	25+25	0	2	6
	Total	**20**	**250**			

SEMESTER– III

Course code	Course title	Credits	Marks	L	T	P
				No. of Hours/Week		
Theoretical						
CSMI CC11	Introduction to Deep Learning	4	50	5	1	0
CSMI CC12	Data Science and Natural Language Processing (NLP)	4	50	5	1	0
CSMI CC13	Elective-I	4	50	5	1	0
Practical						
CSMI CC14	Deep Learning Lab, Data Science and NLP Lab	4	25+25	0	2	6
CSMI CC15	Elective-I Lab and Project Designing	4	25+25	0	2	6
	Total	**20**	**250**			

SEMESTER– IV

Course code	Course title	Credits	Marks	L	T	P
				No. of Hours/Week		
CSMI CC16	Elective-II	4	50	5	1	0
CSMI CC17	Dissertation/Project	14	125	0	2	16
CSMI CC18	Research Methodology and Presentation Lab	2	25	0	2	2
CSMI CC19	Grand Viva	4	50	0	0	0
	Total	**24**	**250**			

ELECTIVEPAPERS
(Choose Elective I and Elective II from the following lists)

Paper Name
Elective -I
Computer Vision
Cybersecurity
Big Data Analytics
Advanced Database Management Systems
Elective -II
Image Processing
Bioinformatics
VLSI Design
Blockchain