



RCC Institute of Information Technology, Kolkata
(Autonomous from Academic Session: 2024 – 2025)

Syllabus: M. Tech. in Computer Science and Engineering in Artificial Intelligence

First Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Professional Core	RCC-PCT-MCSAI-101	Program Core I – Analysis of Algorithms	3	0	0	3
2	Professional Core	RCC-PCT-MCSAI-102	Program Core II - Artificial Intelligence	3	0	0	3
3	Professional Elective	RCC-PET-MCSAI-101	Program Elective I – A. Image Processing B. Natural Language Processing	3	0	0	3
4	Professional Elective	RCC-PET-MCSAI-102	Program Elective II - A. Cloud Computing B. Data Mining	3	0	0	3
7	Professional Core	RCC-PCL-MCSAI-191	Laboratory I – Artificial Intelligence Lab	0	0	4	2
8	Professional Core	RCC-PEL-MCSAI-192	Laboratory II – A. Image Processing Lab B. Natural Language Processing Lab	0	0	4	2
9	Project	RCC-PROJ-MCSAI-181	Project I – Research Methodology and IPR	2	0	0	2
10	Audit/ Mandatory	RCC-AU-MCSAI-181	Research Paper Writing using LATEX	2	0	0	0
Total							18
Second Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Professional Core	RCC-PCT-MCSAI-201	Program Core III – Machine Learning	3	0	0	3
2	Professional Core	RCC-PCT-MCSAI-202	Program Core IV – Data Science & Visualization	3	0	0	3
3	Professional Elective	RCC-PET-MCSAI-201	Program Elective III – A. IoT and Edge Computing B. Optimization Techniques	3	0	0	3
4	Professional Elective	RCC-PET-MCSAI-202	Program Elective IV – A. Soft Computing B. Audio Video Processing	3	0	0	3
5	Professional Core	RCC-PCL-MCSAI-291	Laboratory III – Machine Learning Lab	0	0	4	2
6	Professional Core	RCC-PEL-MCSAI-292	Laboratory IV – A. IoT and Edge Computing Lab B. Optimization Techniques Lab	0	0	4	2
7	Project	RCC-PROJ-MCSAI-281	Project II – Minor Project and Seminar	0	0	4	2
8	Audit/ Mandatory	RCC-AU-MCSAI-281	Pedagogical Practices in Teaching	2	0	0	0
Total							18



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Third Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Professional Elective	RCC-PET-MCSAI-301	Program Elective V – A. Computer Vision and Robotics B. Big Data Analytics	3	0	0	3
2	Open Elective	RCC-OET-MCSAI-301	Open Elective I – A. Project Management and Entrepreneurship	3	0	0	3
3	Project	RCC-PROJ-MCSAI-381	Project III – Industrial Training – Project - Seminar	0	0	8	4
4	Project	RCC-PROJ-MCSAI-382	Project IV – Dissertation I (Final year project) - Seminar	0	0	12	6
Total							16
Fourth Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Project	RCC-PROJ-MCSAI-481	Project V – Dissertation II: Defense of Dissertation	0	0	20	10
2	Project	RCC-PROJ-MCSAI-482	Project VI – Comprehensive Viva	0	0	12	6
Total							16