



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

Syllabus: Master in Computer Applications (MCA)

First Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Compulsory Subject	RCC- MCA-C101	Programming Concept with C	3	1	0	4
2		RCC-MCA-C102	RDBMS	3	1	0	4
3		RCC-MCA-C103	Computer Organization & Architecture	3	1	0	4
4		RCC-MCA-C104	Mathematics & Statistics	3	1	0	4
5		RCC-MCA-C105	Organizational Behavior	3	0	0	3
6		RCC-MCA-C191	C Programming Lab	0	0	4	2
7		RCC-MCA-C192	RDBMS Lab	0	0	4	2
8		RCC-MCA-C193	Soft Skill and Interpersonal Communication	0	0	2	2
9	Industry Orientation Course	RCC-MCA-S181	Introduction to Python language	0	0	3	2
Total							27
Second Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Compulsory Subject	RCC-MCA-C201	Data Structure with C	3	1	0	4
2		RCC-MCA-C202	Operating System	3	1	0	4
3		RCC-MCA-C203	Object Oriented Programming using JAVA	3	1	0	4
4		RCC-MCA-C204	Data Communication & Computer Network	3	0	0	3
5		RCC-MCA-C205	Software Engineering & UML	3	0	0	3
6		RCC-MCA-C291	Data Structure with C Lab.	0	0	4	2
7		RCC-MCA-C292	Operating System Lab	0	0	4	2
8		RCC-MCA-C293	Object Oriented Programming Lab using JAVA	0	0	4	2
9	Industry Orientation Course	RCC-MCA-S281	Mobile and Web Technology	0	0	4	2
Total							26



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Third Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Compulsory Subject	RCC-MCA-C301	Artificial Intelligence & Machine Learning	3	1	0	4
2		RCC-MCA-C302	Data Warehousing and Data Mining	3	1	0	4
3	Elective Subject	RCC-MCA-E301 A/B	Elective I A. Image Processing B. Cloud Computing	3	0	0	3
4	Elective Subject	RCC-MCA-E302 A/B	Elective II A. Big Data Analytics B. Cyber Security	3	0	0	3
5	Compulsory Subject	RCC-MCA-C391	Artificial Intelligence & Machine Learning Lab.	0	0	4	2
6	Elective Subject	RCC-MCA-E391	Elective I Lab (A/B)	0	0	3	2
7	Sessional	RCC-MCA-S381	Minor Project and Viva Voce	0	0	4	2
8	Industry Orientation Course	RCC-MCA-S382	Advanced Java	0	0	4	2
Total							22



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Fourth Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Open Elective	RCC-MCA -O401	Open Elective [1] Open Electives preferably be opted from NPTEL/SWAYAM Platform. [2] While opting for a course for pursuing the Open Elective, a student needs to ensure that: i) The duration of the course must minimum of 12-Weeks. ii) The course must not be covered in previous semesters of the program. iii) Date of Exam and publication of result should be within the tenure of the MCA 4th Semester i.e. January to June of every Year. [3] Student must submit the course details at the time of 4th semester enrollment	0	0	3	3
2		RCC-MCA - S481	Compressive Viva-voce	0	0	2	2
3		RCC-MCA - S482	Major Project and Viva-voce	0	0	28	20
Total							25