R.V.R & J.C.COLLEGE OF ENGINEERING (Autonomous)

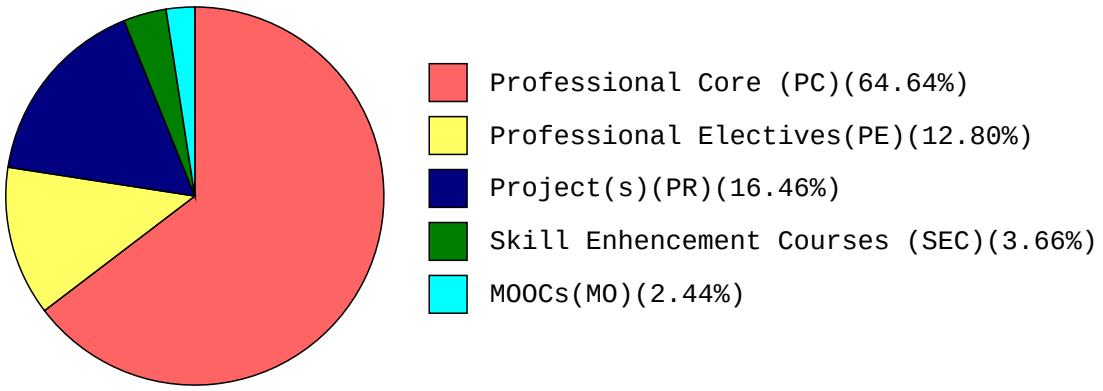
DEPARTMENT OF COMPUTER APPLIATIONS

MASTER OF COMPUTER APPLICATIONS

(w.e.f. the batch of students admitted from the academic year 2025-2026)

Programme Curriculum (R-25) grouping based on course components

Course Component	Curriculum Content (% of total number of credits in programme)	Total number of contact hours	Total number of credits
Professional Core (PC)	64.63	65	53
Professional Elective(s) (PE)	12.8	12	10.5
Project(s) (PR)	16.46	3	13.5
Skill Enhencement Course(s) (SEC)	3.66	6	3
MOOC's (MO)	2.44		2
Total number of Credits			82



R.V.R & J.C.COLLEGE OF ENGINEERING (Autonomous)

MASTER OF COMPUTER APPLICATIONS

Course Structure, Scheme of Instruction (R25) and Examination

(w.e.f. the batch of students admitted from the academic year 2025-2026)

I Year I Semester — COURSE STRUCTURE

SNo.	Course Details		Scheme of Instruction			Scheme of Examination			Category
	Code No.	Subject Name	Periods per week			Maximum Marks		Credits	Code
			L	T	P	CIA	SEE		
1	CA111	Data Structures and Algorithms	3	1	-	40	60	4.0	PC
2	CA112	Java Programming	3	1	-	40	60	4.0	PC
3	CA113	UI Web Development	2	1	-	40	60	3.0	PC
4	CA114	Computer Networks	3	-	-	40	60	3.0	PC
5	CA115	Probability and Statistics	3	1	-	40	60	4.0	PC
6	CA151	Data Structures and Algorithms Lab	-	-	3	40	60	1.5	PC
7	CA152	Java Programming Lab	-	-	3	40	60	1.5	PC
8	CA153	UI Web Development Lab	-	-	3	40	60	1.5	PC
9	CA154	Professional Communication Skills Lab	-	-	3	40	60	1.5	SEC
		TOTAL	14	4	12	360	540	24	TPW-30

I Year II Semester — COURSE STRUCTURE

SNo.	Course Details		Scheme of Instruction			Scheme of Examination			Category
	Code No.	Subject Name	Periods per week			Maximum Marks		Credits	Code
			L	T	P	CIA	SEE		
1	CA121	Database Management Systems	3	1	-	40	60	4.0	PC
2	CA122	Programming with Python	2	1	-	40	60	3.0	PC
3	CA123	Software Engineering	3	-	-	40	60	3.0	PC
4	CA124	Artificial Intelligence	3	-	-	40	60	3.0	PC
5	CA125	Web Technologies	2	1	-	40	60	3.0	PC
6	CA161	Database Management Systems Lab	-	-	3	40	60	1.5	PC
7	CA162	Python Programming Lab	-	-	3	40	60	1.5	PC
8	CA163	Web Technologies Lab	-	-	3	40	60	1.5	PC
9	CA164	Mini Project Work	-	-	3	40	60	1.5	PR
		TOTAL	13	3	12	360	540	22	TPW-28
Internship 4-8 weeks (Mandatory) during summer vacation (to be evaluated during next semester)									

II Year I Semester **COURSE STRUCTURE**

SNo.	Course Details		Scheme of Instruction			Scheme of Examination			Category Code
	Code No.	Subject Name	Periods per week			Maximum Marks		Credits	
			L	T	P	CIA	SEE		
1	CA211	Data Mining and Big Data	3	1	-	40	60	4.0	PC
2	CA212	Cloud Computing	3	-	-	40	60	3.0	PC
3	CA213	Professional Elecive-I	3	-	-	40	60	3.0	PE
4	CA214	Professional Elecive-II	3	-	-	40	60	3.0	PE
5	CA215	Professional Elective-III	3	-	-	40	60	3.0	PE
6	CA216	MOOCs	-	-	-	-	100	2.0	MO
7	CA251	Machine Learning Lab	-	-	3	40	60	1.5	PC
8	CA252	AWS Lab	-	-	3	40	60	1.5	PC
9	CA253	Professional Elecive-I Lab	-	-	3	40	60	1.5	PE
10	CA254	Industry Specific Lab	-	-	3	40	60	1.5	SEC
11	CA255	Internship	-	-	-	40	60	2.0	PR
		TOTAL	15	1	12	400	700	26	TPW-28

II Year II Semester **COURSE STRUCTURE**

SNo.	Course Details		Scheme of Instruction			Scheme of Examination			Category Code
	Code No.	Subject Name	Periods per week			Maximum Marks		Credits	
			L	T	P	CIA	SEE		
1	CA261	Major Project Work	-	-	-	40	60	10.0	PR
		TOTAL	0	0	0	40	60	10	TPW-0

CIA - Continuous Internal Assessment; SEE - Semester End Examinations

TPW - Total periods per Week

Professional Elective-I

Code No.	Subject Name	Code No.	Subject Name
A	.Net Programming	B	Mobile Application Design and Development
C	Business Intelligence using Power BI	D	Software Testing Automation

Professional Elective-II

Code No.	Subject Name	Code No.	Subject Name
A	Cyber Security	B	Block Chain Technology
C	Devops & Devsecops	D	Software Project Management

Professional Elective-III

Code No.	Subject Name	Code No.	Subject Name
A	Soft Computing	B	Introduction to Quantum Computing
C	Natural Language Processing	D	GENAI and Agentic AI

Professional Elective Lab-I

Code No.	Subject Name	Code No.	Subject Name
A	.Net Programming Lab	B	Mobile Application Design and Development Lab
C	Business Intelligence using Power BI Lab	D	Software Testing Automation Lab