



P.K. UNIVERSITY ,Thanra ,Shivpuri (M.P)

“ Faculty of computer Science & Application ”

First Semester- Master of Computer Application (M.C.A)

Scheme (w.e.f. July-2023-24)

S. No	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignment / Quiz	End Sem. Practical / Viva	Practical Record/ Quiz/Assignment /Presentation	
1.	MPROGCA101	Programming in C and dataStructure	3	1	-	4	70	20	10	-	-	100
2.	MSTATCA102	Statistical Mathematics	3	1	-	4	70	20	10	-	-	100
3.	MOPERCA103	Operating System and Architecture	3	1	-	4	70	20	10	-	-	100
4.	MINFOCA104	Information Technology	3	1	-	4	70	20	10	-	-	100
5.	MCOMMCA105	Communication Skills	3	1	-	4	70	20	10	-	-	100
6	MCANDCA106	C and data Structure Lab	-	-	8	8	-	-	-	120	80	200
7.	MOPERCA107	Operating System Lab	-	-	2	2				30	20	50
		Total	15	5	10	30	350	100	50	80	70	750

L: Lecture - T: Tutorial - P: Practical



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Second Semester- Master of Computer Application (M.C.A)

Scheme (w.e.f. 2023-2024)

S. No	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignment / Quiz	End Sem. Practical / Viva	Practical Record/ Quiz/ Assignment/ Presentation	
1.	MDBMSCA201	DBMS	3	1	-	4	70	20	10	-	-	100
2.	MCOMPCA202	Computer Network	3	1	-	4	70	20	10	-	-	100
3.	MSOFTCA203	Software Engineering and UML	3	1	-	4	70	20	10	-	-	100
4.	MALGOCA204	Algorithm Design	3	1	-	4	70	20	10	-	-	100
5.	MOBJECA205	Object oriented Programming with JAVA	3	1	-	4	70	20	10	-	-	100
6.	MJAVACA206	Java and OOPS Lab	-	-	8	8	-	-	-	120	80	200
7.	MDBMSCA207	DBMS Lab	-	-	2	2				30	20	50
		Total	15	5	10	30	350	100	50	80	70	750

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Third Semester- Master of Computer Application (M.C.A)

Scheme (w.e.f. 2023-2024)

S. No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments/Quiz	End Sem. Practical/Viva	Practical Record/Quiz/Assignment/Presentation	
1.	MDATCA301	Data Mining	3	1	-	4	70	20	10	-	-	100
2.	MARTICA302	Artificial Intelligence	3	1	-	4	70	20	10	-	-	100
3.	MINTRCA303	Introduction to data Science and big data Elective – I	3	1	-	4	70	20	10	-	-	100
4.	MMACHCA304	Machine Learning Elective-II	3	1	-	4	70	20	10	-	-	100
5.	MDISTCA305	Distributed Systems Elective-III	3	1	-	4	70	20	10	-	-	100
6.	MMINOCA306	Minor Project	-	-	8	8	-	-	-	120	80	200
7.	MINTRCA307	Introduction to data Science and big data Elective-I Lab	-	-	2	2				30	20	50
		Total	15	5	10	30	350	100	50	150	100	750

L: Lecture - T: Tutorial - P: Practical

Elective – I

1. Python
2. Web Technology
3. Introduction to data Science and big data

Elective-II

1. Machine Learning
2. Soft Computing
3. Internet of Things

Elective-III

1. Computer Ethics
2. Advanced Databases
3. Distributed Systems



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Fourth Semester- Master of Computer Application (M.C.A)

Scheme (w.e.f. 2023-2024)

S. No	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments/Quiz	End Sem. Practical / Viva	Practical Record/ Quiz/ Assignment/ Presentation	
1.	MBIGDCA401	Big data with Analytics Elective -IV	3	1	-	4	70	20	10	-	-	100
2.	MDIGICA402	Digital marketing Elective-V	3	1	-	4	70	20	10	-	-	100
3.	MMOBICA403	Mobile Computing Elective-VI	3	1	-	4	70	20	10	-	-	100
4.	MMAJOCA404	Major Project	-	-	16	16	-	-	-	250	150	400
5.	MBIGDCA405	Big data with Analytics (Lab) Elective -IV	-	-	2	2	-	-	-	30	20	50
		Total	9	3	18	30	210	60	30	280	170	750

L: Lecture - T: Tutorial - P: Practical

Elective

1. Advanced Python
2. Advanced Web Technology
3. Big data with Analytics

Elective-V

1. Deep Learning
2. Cloud Computing Technologies
3. Digital marketing

Elective-VI

1. Information Security
2. Block Chain and Crypto currency
3. Mobile Computing