

Rajarshi Janak University
Faculty of Humanities and Law
Janakpurdham

Title: Master in Computer Application

Year/Semester: 1st / 1st

S.N.	Course code	Subject	Credit hours		Total
			Theory	Practical	
1	MCACS111	Advanced Operating System	2	1	3
2	MCACS112	Discrete Structure	2	1	3
3	MCACS113	Advanced Internet Technologies	2	1	3
4	MCACS114	Design Analysis and Algorithm	2	1	3
5	MCACS115	BigData Technologies	2	1	3
		Total	10	5	15

Year/Semester: 1st / 2nd

S.N.	Course code	Subject	Credit hours		Total
			Theory	Practical	
1	MCACS121	Optimization Techniques	2	1	3
2	MCACS123	Data Analysis using Python	2	1	
3	MCACS124	Research Methodology	2	1	3
4	MCACS125	Software Testing and Quality Assurance	2	1	3
5		Elective-I	--	--	3
6	MCASM126	Seminar	1	--	
		Total	12	4	16

Elective-I

S.N.	Course code	Subject	Credit hours		Total
			Theory	Practical	
1	MCACS127	Cloud Computing	2	1	3
2	MCACS128	Software Architecture	2	1	
3	MCACS129	Essential for cyber security	2	1	3
4	MCACS1210	Digital Governance	2	1	3
5	MCACS1211	Cognitive computing/ Intelligence Computing	2	1	3

Year/Semester: 2nd/3rd

S.N.	Course code	Subject	Credit hours		Total
			Theory	Practical	
1	MCACS231	Cryptography and Network Security	2	1	3
2	MCACS232	IT Audit	2	1	3
3		Elective–II	--	--	3
4		Elective–III	--	--	3
5	MCAPJ233	Project-I	3		3
		Total	13	2	15

Elective–II

S.N.	Course code	Subject	Credit hours		Total
			Theory	Practical	
1	MCACS234	Deep Learning	2	1	3
2	MCACS235	Ethical Hacking	2	1	
3	MCACS236	Internet of Things	2	1	3
4	MCACS237	Computer Vision	2	1	3
5	MCAME238	Managerial Economics	2	1	3

Elective–II

S.N.	Course code	Subject	Credit hours		Total
			Theory	Practical	
1	MCACS239	Artificial Intelligence	2	1	3
2	MCACS2310	Digital Forensics	2	1	
3	MCACS2311	GIS and Remote sensing	2	1	3
4	MCACS2312	Data Science	2	1	3
5	MCACS2313	Digital Image Processing	2	1	3

Year/Semester: 2nd/4th

S.N.	Course code	Subject	Credit hours		Total
			Theory	Practical	
1	MCATH241/ MCAPJ242	Thesis/Main Project-III	9	--	9
2		Elective-IV	3	--	3
3		Elective-V	3	--	3
		Total	15	--	15

Elective-IV

S.N.	Course code	Subject	Credit hours		Total
			Theory	Practical	
1	MCACS243	Inferential Statistics	2	1	3
2	MCACS244	Machine Learning	2	1	3

Elective-V

S.N.	Course code	Subject	Credit hours		Total
			Theory	Practical	
1	MCACS245	Generative AI	2	1	3
2	MCACS246	Data Visualization Technique	2	1	3
3	MCACS247	Natural Language Processing(NLP)/Deep learning	2	1	3