



ARKA JAIN University
Jharkhand (Jamshedpur)

Recognized by **UGC**
Approved by **AICTE**

Scheme of Study of the Program

Master of Computer Applications (MCA)

Semester I, II, III, IV, V & VI

(w.e.f Batch 2017)

SEMESTER-I

S.No	Name of the Subject	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA**	Attendance
1	Problem Solving & Programming in C	4	4	100	70	20	5	5
2	Digital Logic	4	4	100	70	20	5	5
3	Web Technologies	4	4	100	70	20	5	5
4	Professional Communication	4	4	100	70	20	5	5
5	Human Resource Management	4	4	100	70	20	5	5
	Practical							
6	C Programming Lab	2	4	50	30	10	5	5
7	Web Technologies Lab	2	4	50	30	10	5	5
	TOTAL	24	28	600	410	120	35	35

SEMESTER-II

S.No	Name of the Subject	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA**	Attendance
1	Programming & Data Structure with C++	4	4	100	70	20	5	5
2	Information Systems Analysis Design & Implementation	4	4	100	70	20	5	5
3	Operating System	4	4	100	70	20	5	5
4	Mathematical Foundation, Probability & Combinatorics	4	4	100	70	20	5	5
	Practical							
5	Data Structures Lab	2	4	50	30	10	5	5
6	Linux & Windows Lab	2	4	50	30	10	5	5
	TOTAL	20	24	500	340	100	30	30

SEMESTER-III

S.No	Name of the Subject	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA **	Attendance
1	Programming in Java	4	4	100	70	20	5	5
2	Relational Database Management System	4	4	100	70	20	5	5
3	Software Engineering	4	4	100	70	20	5	5
4	Computer Networks	4	4	100	70	20	5	5
5	Information Security	4	4	100	70	20	5	5
6	Research Methodology	4	4	100	70	20	5	5
	Practical							
7	Relational Database Management System Lab	2	4	50	30	10	5	5
8	Java Programming Lab	2	4	50	30	10	5	5
9	Mini Project	2	4	50	30	10	5	5
	TOTAL	30	36	750	510	150	45	45

SEMESTER-IV

S.No	Name of the Subject	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA **	Attendance
1	Advanced Web Technologies	4	4	100	70	20	5	5
2	Data Mining	4	4	100	70	20	5	5
3	Computer Graphics & Image Processing	4	4	100	70	20	5	5
4	Elective 1 1. Python Programming 2. Hadoop	4	4	100	70	20	5	5
5	Elective 2 1. Entrepreneurship Management 2. ERP 3. Ethics and CSR	4	4	100	70	20	5	5
6	Research - Problem Identification & Data Collection	4	4	100	70	20	5	5
	Practical							
7	Advanced Web Technologies Lab	2	4	50	30	10	5	5
8	Computer Graphics and Image Processing Lab	2	4	50	30	10	5	5
9	Elective 1 1. Python Programming Lab 2. Hadoop Lab	2	4	50	30	10	5	5
	TOTAL	30	36	750	510	150	45	45

SEMESTER V

S.No	Name of the Subject	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA **	Attendance
1	Mobile Application Programming	4	4	100	70	20	5	5
2	Cloud Computing	4	4	100	70	20	5	5
3	Wireless and Mobile Networks	4	4	100	70	20	5	5
4	Artificial Intelligence	4	4	100	70	20	5	5
5	Elective 3 1. Big Data Analytics 2. Machine Learning 3. Internet of Things	4	4	100	70	20	5	5
6	Elective 4 1. Intellectual property Rights and Patents 2. Management Information System	4	4	100	70	20	5	5
	Practical							
7	Mobile Technology - Lab	2	4	50	30	10	5	5
8	Cloud Computing Lab	2	4	50	30	10	5	5
	TOTAL	28	32	700	480	140	40	40

SEMESTER VI

S.No	Name of the Subject	Credit	Contact Hours	Total Marks	End Term Theory/ Practical Exam	Internal (Presentation)	CIA **	Attendance
1	INDUSTRY PROJECT	16	30	300	200	70	20	10
2	RESEARCH - PUBLICATION	4	5	100	70	20	5	5
	TOTAL	20	35	400	270	90	25	15

**** CIA – Continuous Internal Assessment – Based on Class Participation / Assignment**

Note : Approved by BOS on dated 11.08.2017 & Approved by Academic Council on Dated 17.08.2017