

Existing Program Structure of MCA Sem-III & IV

GANPAT UNIVERSITY																			
FACULTY OF COMPUTER APPLICATION																			
TEACHING AND EXAMINATION SCHEME																			
Programme	Master of Computer Application	Branch/Spec.	Master of Computer Application																
Semester	III																		
Effective from Academic Year	2016-17	Effective for the batch Admitted in	June 2016																
Subject Code	Subject Name	Teaching scheme												Examination scheme (Marks)					
		Credit						Hours (per week)						Theory			Practical		
		Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)			CE	SE E	Tota l	C E	SE E	Tota l
		L	T U	Total	P	T W	Total	L	T U	Tota l	P	T W	Tota l						
P13A1GUI1	GUI PROGRAMMING – I	2	1	3	2	-	2	2	1	3	4	-	4	40	60	100	20	30	50
P13A2JP1	JAVA PROGRAMMING – I	2	1	3	2	-	2	2	1	3	4	-	4	40	60	100	20	30	50
	Elective-I	1	1	2	2	-	2	1	1	2	4	-	4	40	60	100	20	30	50
P13A4SE	SOFTWARE ENGINEERING	2	1	3	-	-	-	2	1	3	-	-	-	40	60	100	-	-	-
P13A5COM	Computer Based Optimization Models	3	1	4	-	-	-	3	1	4	-	-	-	40	60	100	-	-	-
	Elective-II	2	1	3	-	-	-	2	1	3	-	-	-	40	60	100	-	-	-
Total		12	6	18	6	-	6	12	6	18	12	-	12	240	360	600	60	90	150

Elective-I

P13A3WD2 WEB DESIGNING – II

P13A3NET Networking

Elective-II

P13B6ACS Advanced Communication Skills

P13B6CPD Career & Personality Development

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FACULTY OF COMPUTER APPLICATION																			
TEACHING AND EXAMINATION SCHEME																			
Programme	Master of Computer Application					Branch/Spec.	Master of Computer Application												
Semester	IV																		
Effective from Academic Year	2016-17			Effective for the batch Admitted in	June 2016														
Subject Code	Subject Name	Teaching scheme												Examination scheme (Marks)					
		Credit						Hours (per week)						Theory			Practical		
		Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)			CE	SE	Total	C	SE	Total
		L	T	Total	P	T	Total	L	T	Total	P	T	Total		E		E	E	
P14A1OST	Open Source Technology	2	1	3	2	-	2	2	1	3	4	-	4	40	60	100	20	30	50
P14A2GUI2	GUI PROGRAMMING – II	2	1	3	2	-	2	2	1	3	4	-	4	40	60	100	20	30	50
P14A3JP2	JAVA PROGRAMMING – II	2	1	3	2	-	2	2	1	3	4	-	4	40	60	100	20	30	50
P14A4DWM	DATA WAREHOUSING AND DATA MINING	2	1	3	-	-	-	2	1	3	-	-	-	40	60	100	-	-	-
	Elective-III	2	1	3	-	-	-	2	1	3	-	-	-	40	60	100	-	-	-
	Elective-IV	2	1	3	-	-	-	2	1	3	-	-	-	40	60	100	-	-	-
	Total	18	9	27	6	-	6	18	9	27	12	-	12	360	540	900	60	90	150

Elective-III

P14A5SOA Service Oriented Architecture

P14A5DES Data Encryption and Data Security

P14A5SP System Programming

Elective-IV

P14B6ERP Enterprise Resource Planning And Management

P14B6GIS Geographical Information System and Global Positioning System

Revised Program Structure of MCA Semester-III & IV

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FACULTY OF COMPUTER APPLICATION																			
TEACHING AND EXAMINATION SCHEME																			
Programme	Master of Computer Application	Branch/Spec.	Master of Computer Application																
Semester	III																		
Effective from Academic Year	2016-17	Effective for the batch Admitted in	June 2016																
Subject Code	Subject Name	Teaching scheme												Examination scheme (Marks)					
		Credit						Hours (per week)						Theory			Practical		
		Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)			CE	SEE	Total	C E	SE E	Total
		L	T U	Total	P	TW	Total	L	T U	Total	P	T W	Total						
P13A1GUI1	GUI PROGRAMMING – I	2	1	3	2	-	2	2	1	3	4	-	4	40	60	100	20	30	50
P13A2JP1	JAVA PROGRAMMING – I	2	1	3	2	-	2	2	1	3	4	-	4	40	60	100	20	30	50
	Elective-I	1	1	2	2	-	2	1	1	2	4	-	4	40	60	100	20	30	50
P13A4SE	SOFTWARE ENGINEERING	2	1	3	-	-	-	2	1	3	-	-	-	40	60	100	-	-	-
	Elective-II	3	1	4	-	-	-	3	1	4	-	-	-	40	60	100	-	-	-
	Elective-III	2	1	3	-	-	-	2	1	3	-	-	-	40	60	100	-	-	-
Total		12	6	18	6	-	6	12	6	18	12	-	12	240	360	600	60	90	150

Elective-I

- 1) P13A3WD2: WEB DESIGNING – II
- 2) P13A3NET NETWORKING

Elective-II

- 1) P13A5COM: COMPUTER BASED OPTIMIZATION MODELS
- 2) P13A5QAL: QUANTITATIVE APTITUDE AND LOGICAL REASONING

Elective-III

- 1) P13B6ACS ADVANCED COMMUNICATION SKILLS
- 2) P13B6CPD CAREER & PERSONALILTY DEVELOPMENT

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TEACHING AND EXAMINATION SCHEME																				
Programme	Master of Computer Application				Branch/Spec.	Master of Computer Application														
Semester	IV																			
Effective from Academic Year	2016-17		Effective for the batch Admitted in	June 2016																
Subject Code	Subject Name	Teaching scheme												Examination scheme (Marks)						
		Credit						Hours (per week)						Theory			Practical			
		Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)			CE	SEE	Total	CE	SEE	Total	
		L	TU	Total	P	TW	Total	L	TU	Total	P	TW	Total							
P14A1OST	Open Source Technology	2	1	3	2	-	2	2	1	3	4	-	4	40	60	100	20	30	50	
P14A2GUI2	GUI PROGRAMMING – II	2	1	3	2	-	2	2	1	3	4	-	4	40	60	100	20	30	50	
P14A3JP2	JAVA PROGRAMMING – II	2	1	3	2	-	2	2	1	3	4	-	4	40	60	100	20	30	50	
P14A4DWM	DATA WAREHOUSING AND DATA MINING	2	1	3	-	-	-	2	1	3	-	-	-	40	60	100	-	-	-	
	Elective-IV	2	1	3	-	-	-	2	1	3	-	-	-	40	60	100	-	-	-	
	Elective-V	2	1	3	-	-	-	2	1	3	-	-	-	40	60	100	-	-	-	
	Total	18	9	27	6	-	6	18	9	27	12	-	12	240	360	600	60	90	150	

Elective-IV

- 1) P14A5SOA Service Oriented Architecture
- 2) P14A5DES Data Encryption and Data Security
- 3) P14A5SP System Programming

Elective-V

- 1) P14B6ERP Enterprise Resource Planning And Management
- 2) P14B6GIS Geographical Information System and Global sitioning System

GANPAT UNIVERSITY									
FACULTY OF COMPUTER APPLICATIONS									
Programme	Master of Computer Applications				Branch/Spec.	-			
Semester	III				Version	1.0.0.0			
Effective from Academic Year				Effective for the batch Admitted in					
Subject code	P13A5QAL		Subject Name		ELECTIVE-II QUANTITATIVE APTITUDE AND LOGICAL REASONING				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total	
	L	TU	P	TW					
Credit	3	1	-	-	4	Theory	40	60	100
Hours	3	1	-	-	4	Practical	-	-	-
Pre-requisites:									
Basic Knowledge of Mathematics									
Learning Outcome:									
The student will acquire more skill to face any aptitude test conducted by Industry.									
Theory syllabus									
Section-1(30 sessions)									
Unit	Content								Hrs
Section-I(30 Sessions)									
1	Number Series, Figure Series, Letter and symbol series, Odd man out Important number series, Three steps to solve number series, two line number series, basic concept in Figure Series, Letter and symbol series and Odd man out.								7
2	Square root and Cube root, Problems on Ages and Numbers: Method of finding square root, Method of finding cube root, Basic Concept on Problems on age, Basic Concept on problems on numbers								8
3	Percentage: Fraction to Rate Per Cent, Rate Per Cent to Fraction, Rate Per Cent of a Number, Express given quantity as a percentage, Convert percentage into decimals, Convert decimal into percentage, Percentage Change and new Number, Two step change of percentage for a number, Product to remain fixed, % Excess or % shortness, Relation between % more and number of times								8
4	Profit, Loss and Discount: Profit or Loss, % Profit or % Loss, Multiplying equivalents to find where sale price, Article sold at two selling prices, Two articles sold at same selling price, Discount and Marked Price, False scale for selling article, % Gain or % Loss on selling price, % Gain or % Loss on whole property, Discount series and net selling price								7
Section-II(30 Sessions)									
5	Average: Introduction, Average of different groups, Addition or Removal of items and change in average, Replacement of some of items								6
6	Permutation, Combination and Probability: Basic concept of permutation, combination and probability								6

7	Time and Work, Wages: Basic concepts of time and work, Wage Distribution	6
8	Simple Interest: Introduction, Simple interest per year, Amount becomes N times the principal, Repayment of Debt in equal installments, Rate and Time are Numerically equal, Rate is not same throughout the period, Division of a sum of money	5
9	Time and Distance: Introduction, Average speed, Distance covered is same, Distance covered is different, Stoppage time per hour for a train, time taken with two different modes of transport, Time and distance between two moving bodies	7
Practical Content		
NA		
Text Books		
1	QUANTITATIVE APTITUDE for competitive examinations by ABHIJIT GUHA, Mc Graw Hill Education	
Reference Books		
1	QUANTITATIVE APTITUDE for competitive examinations by Dr.R.S. Aggarwal, S. CHAND publication	
	Question Paper Scheme: University Examination Duration: 3 Hours Note for Examiner: - (I) Questions 1 and 4 are compulsory with no options. (II) Internal options should be given in questions 2, 3, 5 and 6. SECTION - I Q.1 –8 Marks Q.2 –11 Marks Q.3 –11 Marks SECTION - II Q.4 –8 Marks Q.5 –11 Marks Q.6 –11 Marks	