University of Pune

M.C.A. (Under Commerce Faculty) (To be implemented from Academic year 2013-2014)

Credit Based System

1. Programme Name

Master Degree in Computer Application (M.C.A.)

2. Preamble

The M.C.A program is a combination of computer-related and general commerce courses. The computer related courses are used to introduce techniques of programming, databases, web designing, system analysis and design tools. The commerce courses include the education of Human recourse development, Organizations, accounting, inventory and production. The course is designed to emphasis on the building of business application software. The students are exposed to Software Engineering concepts, MIS and DSS for different organizations.

3. Objective

3.1. The basic objective of the M.C.A (Commerce) is to provide knowledge and skills required for planning, designing and build Complex Application Software Systems as well as to provide support to automated systems or application.

4. Programme Structure

4.1.Duration

The entire Programme is of a Three year (Six semester) full time Program.

4.2.Courses

First Five semesters will have Seven courses each. The entire period of the sixth semester shall be devoted for the Major project work. Two kinds of courses offered are Core courses and Elective courses. Core courses are offered by the department conducting the programme. Elective courses are offered either by the department conducting the programme or by any other department.

5. Eligibility

For First Year: Bachelors Degree in any discipline of Pune University or any other degree of other University / Institution recognized by Pune University as equivalent.

For Lateral Entry (Second Year): B.C.A., B.Sc(IT), B.Sc(cs), B.C.S.

11. Completion of Degree Programme

- 1.1. As soon as a student obtains 156 credits, the student will be deemed to have completed the
 - requirements of the M.C.A..(Commerce) degree programme.
- 1.2. If a student has failed in a course then the said course will not be taken into account for calculating GPA and overall grade. In fact, all the courses in which a student has passed will be taken into account for calculating the GPA and overall grade.
- 1.3. The policies and procedures determined by University will be followed for the conduct of examinations and declaration of the result of a candidate

Year/	Subje	Paper	Title of Paper	Hours	Credi		Marks	S
Semest	ct			1	t	CA	UE	Tota
er				Weak				1
I Year	Core	CAC-	Fundamentals of	4	4	50	50	100
Sem-I		101	Information Technology					
	Core	CAC-	Programming in C	4	4	50	50	100
		102						
	Core	CAC-	Elements of Statistics	4	4	50	50	100
		103						
	Core	CAC-	Financial Accounting	4	4	50	50	100
		104						
	Core	CAC-	Principles of Management	4	4	50	50	100
		105						
	Core	CAC-	Business Communication	4	4	50	50	100
		106						
	Core	CAC-	Lab on CAC-101 &102	4	4	50	50	100
		107						

Minimum Credit: 28, Core Subject is compulsory CA- Continuous Assessment, UE –University Examination.

Year/	Subje	Paper	Title of Paper	Hours	Credi		Marks	S
Semest	ct			1	t	CA	UE	Tota
er				Weak				1
I Year	Core	CAC-	Data Structures	4	4	50	50	100
Sem-II		201						
	Core	CAC-	OOP- C++	4	4	50	50	100
		202						
	Core	CAC-	Elements of Mathematics	4	4	50	50	100
		203						
	Core	CAC-	System Analysis and	4	4	50	50	100
		204	Design					
	Core	CAC-	Database Management	4	4	50	50	100
		205	System					
	Core	CAC-	Human Resource	4	4	50	50	100
		206	Management					
	Core	CAC-	Lab. on CAC-201,CAC-	4	4	50	50	100
		207	202					

Minimum Credit : 28 , Core Subject is compulsory. CA- Continuous Assessment, UE – University Examination.

	Subje	Paper	Title of Paper	Hours	Credi	Mark		
Year/	ct	_	_	/	t	CA	UE	Tota
Semest				Weak				1
er								
II Year	Core	CAC-	Java	4	4	50	50	100
Sem-		301						
III	Core	CAC-	Advance Database	4	4	50	50	100
		302	Concepts					
	Core	CAC-	Object Oriented Software	4	4	50	50	100
		303	Engineering					
	Core	CAC-	Network Operations	4	4	50	50	100
		304						
	Core	CAC-	Lab. on 301 & 302	4	4	50	50	100
		305						
	Electiv	CAC-	Introduction to Operating	4	4	50	50	100
	e	306	Systems					
	Electiv	CAC-	M-Commerce	4	4	50	50	100
	e	307						
	Electiv	CAC-	Management Information	4	4	50	50	100
	e	308	Systems					
	Electiv	CAC-	Project	4	4	50	50	100
	e	309						

Minimum Credit: 28, Maximum Credit 32. Core Subject is compulsory, From elective courses student can select Two course for Minimum credit and Three for Maximum Credit. CA-Continuous Assessment, UE –University Examination.

Year/	Subje	Paper	Title of Paper	Hours	Credi		Mark	
Semest	ct			1	t	CA	UE	Tota
er				Weak				1
II Year	Core	CAC-	Advance Java	4	4	50	50	100
Sem-IV		401						
	Core	CAC-	Visual Programming	4	4	50	50	100
		402						
	Core	CAC-	Distributed Databases	4	4	50	50	100
		403						
	Core	CAC-	Web Technology	4	4	50	50	100
		404						
	Core	CAC-	Lab. on 401,402	4	4	50	50	100
		405						
	Electiv	CAC-	IT Project Management	4	4	50	50	100
	e	406						
	Electiv	CAC-	Cyber Law and IT	4	4	50	50	100
	e	407	Security					
	Electiv	CAC-	Advanced Networking	4	4	50	50	100
	e	408						
	Electiv	CAc-	Project	4	4	50	50	100
	e	409						

Minimum Credit: 28, Maximum Credit 32. Core Subject is compulsory, From elective courses student can select Two course for Minimum credit and Four for Maximum Credit. CA-Continuous Assessment, UE –University Examination.

Year/	Subje	Paper	Title of Paper	Hours	Credi		Mark	
Semest	ct			/	t	CA	UE	Tota
er				Weak				1
II	Core	CAC-	Advanced Web	4	4	50	50	100
IYear		501	Programming					
Sem-V	Core	CAC-	Data Center Technology	4	4	50	50	100
		502						
	Core	CAC-	Information System Audit	4	4	50	50	100
		503						
	Core	CAC-	Content Management	4	4	50	50	100
		504	Systems					
	Core	CAC-	Lab. on CAC-501,CAC-	4	5	50	50	100
		505	502					
	Electiv	CAC-	Mobile Communication	4	4	50	50	100

	e	506						
	Electiv	CAC-	System Simulation and	4	4	50	50	100
	e	507	Modeling					
	Electiv	CAC-	Businesses and	4	4	50	50	100
	e	508	Professional Skills					
	Electiv	CAC-	Project	4	4	50	50	100
	e	509	-					

Minimum Credit: 28, Maximum Credit 32. Core Subject is compulsory, From elective courses student can select one course for Minimum credit and Three for Maximum Credit. IA- Internal Assessment, UE –University Examination.

Year/	Subje	Paper	Title of Paper	Hours	Credi	Marks		
Semest	ct			/	t	CA	UE	Tota
er				Weak				1
III	Core	CAC-	Industrial Training		16	100	200	300
Year		601	/Institutional project					
Sem-VI								