St. Peter's University

Chennai – 600 054.

M.C.A. PROGRAMME

Regulations and Syllabi

(Effective from 2008 – 2009)

1. **Eligibility:** Candidates who passed Three year Undergraduate Programme of the University or any other examination equivalent thereto with Mathematics at Higher Secondary Level and who appeared for the entrance test conducted by the University or approved institutions wherever prescribed are eligible for admission to Three Year M.C.A. Programme.

2. **Duration:** Three Years Comprising 6 Semesters. Each semester has a minimum 90 working days with a minimum of 5 hours a day.

3. **Medium:** English is the medium of instruction and examination.

4. **Weightage for Continuous and End Assessment:** The weightage for Continuous Assessment (CA) and End Assessment (EA) be 25:75 unless the ratio is specifically mentioned in the scheme of Examinations.

5. **Credit System:** Credit system be followed with 18 credits for each semester and each credit is equivalent to 25-30 hours of effective study provided in the Time Table.

6. Scheme of Examinations (for I to IV Semesters)

I Semester

Code No.	Course Title	Credit	L	T	P	Marks		
Theory						**CA**	**EA**	**Total**
108MCT01	Digital Fundamentals and Computer Organization	3	3	1	0	25	75	100
108MCT02	Problem Solving Techniques	3	4	0	0	25	75	100
108MCT03	Business Processes	3	3	0	0	25	75	100
108MCT04	Data Structures	3	4	1	0	25	75	100
108MCT05	Programming in C	3	4	0	0	25	75	100
Practical								
108MCP01	Office Automation Lab	1	0	0	3	25	75	100
108MCP02	Data Structures Lab	1	0	0	3	25	75	100
108MCP03	Programming in C Lab	1	0	0	3	25	75	100
	Total	**18**	**18**	**2**	**9**	**200**	**600**	**800**

II Semester

Code No.	Course Title	Credit	L	T	P	Marks		
Theory						**CA**	**EA**	**Total**
208MCT01	Foundations of Computer Applications	3	3	1	0	25	75	100
208MCT02	System Software	3	3	0	0	25	75	100
208MCT03	Design and Analysis of Algorithms	3	4	0	0	25	75	100
208MCT04	Object Oriented Programming	3	4	0	0	25	75	100
208MCT05	Database Management Systems	3	4	0	0	25	75	100
Practical								
208MCP01	Object Oriented Programming Lab	1	0	0	3	25	75	100
208MCP02	DBMS Lab	1	0	0	3	25	75	100
208MCP03	Algorithms Lab	1	0	0	3	25	75	100
	Total	**18**	**18**	**1**	**9**	**200**	**600**	**800**

III Semester

Code No.	Course Title	Credit	L	T	P	Marks		
Theory						**CA**	**EA**	**Total**
308MCT01	Data Communication and Computer Networks	3	3	0	0	25	75	100
308MCT02	Unix And Network Programming	3	3	0	0	25	75	100
308MCT03	Micro processor and its Applications	3	4	1	0	25	75	100
308MCT04	Programming in Java	3	4	0	0	25	75	100
308MCT05	Advanced Software engineering	3	4	0	0	25	75	100
Practical								
308MCP01	Micro processor lab	1	0	0	3	25	75	100
308MCP02	Programming in Java Lab	1	0	0	3	25	75	100
308MCP03	UNIX and Network lab	1	0	0	3	25	75	100
	Total	**18**	**18**	**1**	**9**	**200**	**600**	**800**

IV Semester

Code No.	Course Title	Credit	L	T	P	Marks		
Theory						**CA**	**EA**	**Total**
408MCT01	Middleware technologies	3	3	0	0	25	75	100
408MCT02	Object Oriented System Design	3	3	0	0	25	75	100
408MCT03	Computer Graphics and multimedia	3	4	0	0	25	75	100
408MCT04	Operating systems	3	4	0	0	25	75	100
E1***	Elective I	3	4	0	0	25	75	100
Practical								
408MCP01	Middle ware technologies lab	1	0	0	3	25	75	100
408MCP02	Computer Graphics and multimedia lab	1	0	0	3	25	75	100
408MCP03	Software Development lab with CASE tools and Testing tools	1	0	0	3	25	75	100
	Total	**18**	**18**	**0**	**9**	**200**	**600**	**800**

LIST OF ELECTIVES

Code No.	Course Title	L	T	P	M
408MCTE1	Human resource management	3	0	0	100
408MCTE2	ECommerce	3	0	0	100
408MCTE3	Scripting Languages	3	0	0	100
408MCTE4	Pervasive computing	3	0	0	100
408MCTE5	Network security	3	0	0	100
408MCTE6	Network management	3	0	0	100

7. Passing Requirements: The minimum pass mark (raw score) be 50% in End Assessment (EA) and 50% in Continuous Assessment (CA) and End Assessment (EA) put together. No minimum mark (raw score) in Continuous Assessment (CA) be prescribed unless it specifically mentioned in the scheme of Examination.

8. Grading System: Grading System on a 10 Point Scale be followed with 1 mark = 0.1 Grade point to successful candidates as given below.

(a) Overall weighted Average Marks $= \frac{\text{Sum of Weighted Marks}}{\text{Total Credits}}$

$= \frac{\Sigma (CA+EA)C}{\Sigma C}$

Where Weighted Marks in each course = Total Marks (CA and EA) multiplied by number of Credit

$= (CA+EA)C$

(b) Overall Grade Point Average (OGPA) $= \frac{\text{Sum of Weighted Grade Points}}{\text{Total Credits}}$

$= \frac{\Sigma (CA+EA)C}{\Sigma C}$

Where Weighted Grade Points in each course = Grade Points (CA and EA) multiplied by Credits

$= (CA+EA)C$

The Overall Grade: The Overall Grade and Classification of all successful candidates be arrived at from the Overall Grade Point Average as stipulated in the following conversion Table.

(1 mark = 0.1 Grade Point on a 10 Point Scale)

Grade	Over all Grade Point Average(OGPA)	Over all weighted Average marks	Classification
O	9.00 to 10.00	90.00 to 100	First Class
A	8.00 to 8.99	80.00 to 89.99	First Class
B	7.00 to 7.99	70.00 to 79.99	First Class
C	6.00 to 6.99	60.00 to 69.99	First Class
D	5.00 to 5.99	50.00 to 59.99	Second Class
F	0.00 to 4.99	0.00 to 49.99	**Fail**

The Grade Sheets of successful candidates provide particulars such as (1) Overall weighted Average Marks, (2) Overall Grade Point Average, (3) Overall Grade and (4) Overall classification.

9. Pattern of the Question Paper: The question paper for End Assessment will be set for three hours and for the maximum of 100 marks with following divisions and details.

Part A: 10 questions (with equal distribution to all units in the syllabus). Each question carries 2 marks.

Part B: 5 question with either or type (with equal distribution to all units in the syllabus). Each question carries 16 marks.

The total marks scored by the candidates will be reduced to the maximum prescribed in the Regulations.

10. Syllabus

Registrar