

**BHARATHIAR UNIVERSITY, COIMBATORE.**  
**MASTER OF COMPUTER APPLICATIONS (MCA) DEGREE COURSE**  
*(Affiliated Colleges - Effective from the academic Year 2010-2011)*

**SCHEME OF EXAMINATIONS – CBCS PATTERN**

Sem	Study Components	Course title	Ins. hrs/ week	Examinations				Credit
				Dur.	CIA	Marks	Total Marks	
	<b>Semester I</b>							
I	Paper I	Introduction to Information Technology	4	3	25	75	100	3
	Paper II	Computer Organisation and Architecture	4	3	25	75	100	3
	Paper III	Problem Solving in C	4	3	25	75	100	3
	Paper IV	Numerical Algorithms & Statistics	4	3	25	75	100	3
	Paper V	Accounting and Financial Management	4	3	25	75	100	3
	Practical I	Information Technology Lab	3	3	40	60	100	4
	Practical II	Problem Solving using C Lab	4	3	40	60	100	4
	Paper VI	Web Designing	3	3	25	75	100	3
II	Paper VII	Data Structures and Algorithms	4	3	25	75	100	3
	Paper VIII	Relational Database Management Systems	4	3	25	75	100	3
	Paper IX	System Software and Operating Systems	4	3	25	75	100	3
	Paper X	Computer Graphics	4	3	25	75	100	3
	Paper XI	Mathematical Foundations of Computer Science	4	3	25	75	100	3
	Practical III	Data Structures and Algorithms Lab	3	3	40	60	100	4
	Practical IV	RDBMS Lab	4	3	40	60	100	4
	Paper XII	Web Services	3	3	25	75	100	3
III	Paper XIII	Object Oriented Analysis Design and C++	4	3	25	75	100	3
	Paper XIV	Unix Programming	4	3	25	75	100	3
	Paper XV	Analysis and Design of Information Systems	4	3	25	75	100	3
	Paper XVI	Computer Networks	4	3	25	75	100	3
	Paper XVII	Operations Research	4	3	25	75	100	3
	Practical V	OOPS & C++ Lab	3	3	40	60	100	4
	Practical VI	Network & Unix Lab	4	3	40	60	100	4
	Paper XVIII	ASP.NET	3	3	25	75	100	3

IV	Paper XIX Visual Programming	4	3	25	75	100	3
	Paper XX Java Programming	4	3	25	75	100	3
	Paper XXI Management Concepts and Communication	4	3	25	75	100	3
	Elective – I	4	3	25	75	100	3
	Elective – II	4	3	25	75	100	3
	Practical VII Visual Programming Lab	4	3	40	60	100	4
	Practical VIII Java Programming Lab	3	3	40	60	100	4
	Practical IX ASP.NET programming Lab	3	3	40	60	100	3
V	Paper XXII Software Engineering	4	3	25	75	100	3
	Paper XXIII Software Testing	4	3	25	75	100	3
	Paper XXIV Data Mining and Warehousing	4	3	25	75	100	3
	Elective – III	4	3	25	75	100	3
	Elective – IV	4	3	25	75	100	3
	Mini Project	5	-	-	-	100*	4
	Practical X Software Testing Tools Lab	5	3	40	60	100	4
VI	Project work and Viva voce					200**	8
	Total					4100	135

\* Project report - 80 marks; Viva-voce – 20 marks

\*\* Project report - 160 marks; Viva-voce – 40 marks

#### ELECTIVE – I

- E.1.1. Client Server Technology
- E.1.2. Digital Image Processing
- E.1.3. Neural Networks

#### ELECTIVE – II

- E.2.1. Multimedia and its Applications
- E.2.2. Distributed Computing
- E.2.3. Simulation and Modeling

#### ELECTIVE – III

- E.3.1. Software Project Management
- E.3.2. Embedded Systems
- E.3.3. Bio-informatics

#### ELECTIVE – IV

- E.4.1. WAP & XML
- E.4.2. E-Commerce
- E.4.3. Artificial Intelligence & Expert Systems

#### Note :

1. The Syllabus for the above papers (**except Paper VI – Web Designing**) be the same as prescribed for the academic year 2007-08.
2. The syllabus for the Paper VI – Web Designing is furnished below :

**PAPER VI : Web DESIGNING**  
**(for the candidates admitted during 2008-09 batch and onwards)**

**Subject Description**

This Course presents the basics of Web designing.

**Goals:**

To enable the students to learn the Programming Languages for Web designing

**Objectives :**

On successful completion of the course the students should have:

- Understood the fundamentals of Internet
- Understood the fundamentals of Web design and how to program using HTML and XML.

**Contents**

**Unit I**

**Introduction to Internet** – World Wide Web – Browsers: Introduction – Popular Web Browsers – know your browsers – Electronic Mail : Introduction – E-mail networks and servers – E-mail protocols – Structure of an E-mail.

**Unit II**

**HTML** : Introduction – Getting started – Creating and saving an HTML document – Document Layout of HTML Page – HTML elements – Some other formatting Styles – Hypertext Links.

**Unit III**

**HTML (contd)** : URLs – Images – HTML tables – Forms – Special Characters – Metatages.

**Interactivity Tools and Multimedia** : Introduction – DHTML – Scripting Languages – Java – ASP.

**Unit IV**

**XML** :XML basics – Introduction – need for XML – Advantages – Working with an XML Document – Structure of an XML Document – DTD- XML Schema

**Unit V**

**XML (contd)** : Working with XML Schema - Declaring Attributes – XML namespaces – Reusing Schema Components – Grouping elements and attributes. XML Style sheets : Introduction – CSS – eXtensible Style Sheet language – Formatting Data based on controls – Displaying data in a Tabular Format.

**REFERENCE Books:**

1. “Internet and Web Design”, ITL Education, Macmillan India Ltd..
2. “HTML and XML an Introduction”, NIIT, Prentice Hall of India Pvt. Ltd.