

BHARATHIAR UNIVERSITY, COIMBATORE
M. Sc. COMPUTER TECHNOLOGY DEGREE COURSE (Affiliated Colleges)
 (Effective from the academic Year 2010-2011)

SCHEME OF EXAMINATIONS – CBCS PATTERN

Sem	Study Components	Course title	Ins. hrs/ week	Exam			Credit	
				Dur.Hrs	CIA	Marks		Total Marks
	Semester I							
I	Paper I	Advanced Computer Architecture	5	3	25	75	100	4
	Paper II	Advanced Java Programming	5	3	25	75	100	4
	Paper III	Principles of Compiler Design	5	3	25	75	100	4
	Paper IV	Object Oriented Analysis and Design	5	3	25	75	100	4
	Paper V	Analysis & Design of Algorithms	3	3	25	75	100	4
	Practical I	Advanced Java Lab	4	3	40	60	100	4
	Elective Paper I		3	3	25	75	100	4
II	Paper VI	Network Security and Cryptography	5	3	25	75	100	4
	Paper VII	Unix Programming	5	3	25	75	100	4
	Paper VIII	Distributed Operating System	5	3	25	75	100	4
	Elective II		5	3	25	75	100	4
	Practical II	Unix Programming Lab	3	3	40	60	100	4
	Paper IX	Software Project Management	3	3	25	75	100	4
III	Paper X	Mobile Computing	5	3	25	75	100	4
	Paper XI	Programming in C# and .Net framework	5	3	25	75	100	4
	Paper XII	Web Services	5	3	25	75	100	4
	Elective III		5	3	25	75	100	4
	Practical III	C# .Net Programming Lab	5	3	40	60	100	4
	Paper VIII	Software Testing	5	3	25	75	100	4
	Practical IV	Software Testing Lab	5	3	40	60	100	4
IV	Project work and Viva voce		-	-	-	-	250*	10
	Total						2250	90

* Project report - 200 marks; Viva-voce – 50 marks

ELECTIVES I

1. Software Quality Assurance
2. Software reliability
3. Multimedia Systems

ELECTIVES II

1. Embedded Systems
2. Neural Networks and Fuzzy Systems
3. Simulation & Modeling

ELECTIVE III

1. Client/Server Technology
2. Data Mining & Warehousing
3. Distributed Computing
4. Wireless Application Protocol

Note :

1. The Syllabus for the above papers (except Paper IX – Software Project Management) be the same as prescribed for the academic year 2008-09.
2. The syllabus for the Paper IX – Software Project Management is furnished below :

Subject Title: SOFTWARE PROJECT MANAGEMENT

Subject Description:

This course presents the introduction to software projects, activity planning, risk management software configuration management.

Goal:

To enable the students to learn the basic functions, principles and concepts of Software project management.

Objectives:

On successful completion of the course the students should have:

- Understood the Software configuration management
- Understood the Activity Planning , Risk Management using case studies

Contents:

UNIT I

Introduction to Software Projects – An Overview of Project Planning – Project Evaluation – Selection of an appropriate Project approach – Software effort Estimation.

UNIT II

Activity Planning – Project Schedules – Sequencing and Scheduling Projects – Network Planning Model – forward and backward pass-Identifying the Critical path-Activity float-Shortening Project Duration – Identifying Critical Activities-precedence networks.

UNIT III

Risk Management – Resource Allocation – Monitoring and Control – Managing People and Organizing Teams – Planning for Small Projects.

UNIT IV

Software Configuration Management – Basic Functions – Responsibilities – Standards – Configuration Management – Prototyping – Models of Prototyping.

UNIT V

Case Study – PRINCE Project Management.

REFERENCE BOOKS

1. Mike Cotterell, Bob Hughes, “Software Project Management”, Inclination/Thomas Computer Press, 1995.
2. Darrel Ince, H.Sharp and M.Woodman, “Introduction to Software Project Management and Quality Assurance”, Tata McGraw Hill, 1995.