

BHARATHIAR UNIVERSITY:: COIMBATORE-641 046

**B.Sc. INFORMATION TECHNOLOGY (Colleges)**

(For the students admitted from the academic year 2010-2011 and onwards)

SCHEME OF EXAMINATION - CBCS PATTERN

Part	Study Components	Course title	Ins. hrs/ week	Examinations				Credit
				Dur.Hrs	CIA	Marks	Total Marks	
	<b>Semester I</b>							
I	Language – I		6	3	25	75	100	4
II	English – I		6	3	25	75	100	4
III	Core 1: Data Structures and C Programming		4	3	25	75	100	4
	Core 2: Computer Organization and Architecture		4	3	25	75	100	4
	Core Lab 1: C Programming Using Data Structures		3	3	40	60	100	4
	Allied 1: Mathematical Foundations For Computer Science		5	3	25	75	100	4
IV	Environmental Studies #		2	3	-	50	50	2
	<b>Semester II</b>							
I	Language – II		6	3	25	75	100	4
II	English – II		6	3	25	75	100	4
III	Core 3: Object Oriented Programming with C++		5	3	25	75	100	4
	Core Lab 2: Object Oriented Programming With C++		4	3	40	60	100	4
	Core Lab 3: Programming Lab – Internet Basics		2	3	20	30	50	2
	Allied 2: Computer Oriented Numerical & Statistical Methods		5	3	25	75	100	4
IV	Value Education – Human Rights #		2	3	-	50	50	2
	<b>Semester III</b>							
	Core 4: System Software and Operating System		6	3	25	75	100	4
III	Core 5: Java Programming		6	3	25	75	100	4
III	Core Lab 3: Programming Lab JAVA		5	3	40	60	100	4
III	Allied 3: Microprocessor and ALP		6	3	25	75	100	4
IV	Skill based Subject I- Introduction to Web Design and Applications		5	3	20	55	75	3
IV	Tamil @ / Advanced Tamil# (OR) Non-major elective - I (Yoga for Human Excellence)# / Women's Rights#		2	3	50	50	50	2

<b>Semester IV</b>							
III	Core 6: Principles of Data Communications and Networks	6	3	25	75	100	4
	Core 7: Client/ Server Computing	6	3	25	75	100	4
	Core Lab 4: Network Lab	6	3	40	60	100	4
	Allied 4: Embedded Systems	6	3	25	75	100	4
IV	Skill based Subject 2 - LAB : HTML,XML, JAVA Scripts	4	3	30	45	75	3
IV	Tamil @ /Advanced Tamil # (OR) Non-major elective -II (General Awareness #)	2	3	50		50	2
<b>Semester V</b>							
III	Core 8: Software Engineering	5	3	25	75	100	4
III	Core 9: Visual Programming	5	3	25	75	100	4
III	Core 10: Relational Database Management System and Oracle	5	3	25	75	100	4
	Core Lab 5: Programming Lab. – V.B. & ORACLE	6	3	40	60	100	4
	Elective I	5	3	25	75	100	4
IV	Skill based Subject 3- Web Technology and Applications	4	3	20	55	75	3
<b>Semester VI</b>							
III	Core 11: Software Testing	5	3	25	75	100	4
	Core 12: Project work lab ++	5	3	25	75	100	4
	Core Lab 6: Testing Tools	6	3	40	60	100	4
	Elective II	5	3	25	75	100	4
	Elective III	5	3	25	75	100	4
IV	Skill Based Subject 4 - : ASP Lab	4	3	30	45	75	3
V	Extension Activities @	-	-	50	-	50	2
	Total					3500	140

@ No University Examinations. Only Continuous Internal Assessment (CIA)

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++ In lieu of one theory paper - see **Project work guidelines**

<b>List of Elective papers (Colleges can choose any one of the paper as electives)</b>		
Elective – I	<b>A</b>	Multimedia Systems
	<b>B</b>	.Net Programming
	<b>C</b>	Object Oriented Analysis and Design
Elective – II	<b>A</b>	Network Security and Administration
	<b>B</b>	Mobile Computing
	<b>C</b>	Digital Image Processing
Elective - III	<b>A</b>	Data Mining

	<b>B</b>	Component Technology
	<b>C</b>	Artificial Intelligence

Note :

1. The Syllabus for the above papers (except Core Lab 3: Programming Lab –Internet Basics) be the same as prescribed for the academic year 2008-09.
2. The syllabus for the Core Lab 3: Programming Lab –Internet Basics is furnished below :

### **Core Lab 3: Programming Lab –Internet Basics**

#### List of Practical

- 1.To create an email-id.
- 2.To compose and send a mail.
- 3.To forward a mail and to reply for a mail.
- 4.To send a mail with an attachment.
- 5.To download the attached document of a mail received.
- 6.To send a mail to a large number of recipients using cc and bcc options.
- 7.To search a thing using a search engine.
- 8.To open and read newspaper sites, TV programmes schedules using Internet.
- 9.To verify a university /college details by opening their websites.
- 10.To upload your resume with any one job portal.

## **GUIDELINES FOR PROJECT WORK**

**(For the Students Admitted During 2010-11 )**

- \* The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied.
- \* Each student should carry out individually one Project Work and it may be a work Using the software packages that they have learned or the implementation of Concepts from the papers studied or implementation of any innovative idea.
- \* The Project work should be **compulsorily done in the college only under the supervision of the Department staff concerned.**
- \* University Exam will be conducted as follows.

### **End Semester Viva**

- Viva-voce will be conducted at the end of VI semester for 100 marks.
- Both the Internal ( Respective Guides) and External Examiners (50+50)Should Conduct the Viva-Voce Examination at the last day of the practical session.
- Out of 50 marks, 25 for Project Evaluation and 25 for Viva.
- For awarding a pass, a candidate should have obtained 40% of the Total 100 marks.