

BHARATHIAR UNIVERSITY: COIMBATORE-641 046

**BACHELOR OF COMPUTER APPLICATIONS (B C A) (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.Hr	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: COBOL Programming		4	3	25	75	100	4
	Core 2: Digital Computer Fundamentals		4	3	25	75	100	4
	Core Lab 1: Programming Lab - COBOL		3	3	40	60	100	4
	Allied 1: Computer Oriented Numerical and Statistical Methods		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: Data Structures and ‘C’ Programming		5	3	25	75	100	4
	Core Lab 2: Programming Lab – C (Data Structures)		4	3	40	60	100	4
	Core Lab 3: Programming Lab – Internet Basics		2	3	20	30	50	2
	Allied 2: Computer–Based Optimization Techniques		5	3	25	75	100	4
IV	Value Education – Human Rights #		2	3	-	50	50	2
	<b>Semester III</b>							
	Core 4: Operating Systems		6	3	25	75	100	4
III	Core 5: C++ Programming		6	3	25	75	100	4
III	Core Lab 3: Programming Lab - C++		5	3	40	60	100	4
III	Allied 3: Business Accounting		6	3	25	75	100	4
IV	Skill based Subject- I -Multimedia		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

	Semester IV						
III	Core-6: Visual Programming - Visual Basic	6	3	25	75	100	4
	Core-7: RDBMS AND ORACLE	6	3	25	75	100	4
	Core Lab-4: Programming Lab - Visual Basic & Oracle	6	3	40	60	100	4
	Allied-4: Management Information Systems	6	3	25	75	100	4
IV	Skill based Subject 2 -- Multimedia Lab - Photoshop	4	3	30	45	75	3
IV	Tamil @ /Advanced Tamil # (OR) Non-major elective -II (General Awareness #)	2	3	50		50	2
	Semester V						
III	Core-8: Software Engineering	5	3	25	75	100	4
III	Core-9: Java Programming	5	3	25	75	100	4
III	Core-10: Computer Networks	5	3	25	75	100	4
	Core Lab-5: Java Programming	6	3	40	60	100	4
	Elective - I	5	3	25	75	100	4
IV	Skill based Subject 3 - Animation Techniques	4	3	20	55	75	3
	Semester VI						
III	Core-11: Web Technology	5	3	25	75	100	4
	Core-12: Project work lab ++	5	3	25	75	100	4
	Core Lab-6: Programming Lab - HTML	6	3	40	60	100	4
	Elective II	5	3	40	60	100	4
	Elective III	5	3	25	75	100	4
IV	Skill Based Subject 4 - Animation Lab - Flash	4	3	30	45	75	3
V	Extension Activities @	-	-	50	-	50	1
	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>	Computer Graphics
	<b>B</b>	Embedded Systems
	<b>C</b>	Digital Image Processing
Elective – II	<b>A</b>	Client / Server Computing
	<b>B</b>	Mobile Computing
	<b>C</b>	Distributed Computing
Elective - III	<b>A</b>	E-Commerce
	<b>B</b>	Software Project Management
	<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.