BHARATHIAR UNIVERSITY: COIMBATORE-641 046

B.Sc. CS/IT/CT/SS/MM/CSA &BCA

(For the students admitted from the academic year **2013-2014** onwards)

CORRECTED SCHEME OF EXAMINATION - CBCS PATTERN

Part	Study Components	Course title	Ins. hrs/ week	Examinations				Credit
				Dur.Hrs	CIA	Marks	Total Marks	
	Semester I							
I	Language – I		6	3	25	75	100	4
II	English – I		6	3	25	75	100	4
III	Core 1: Computing fundamentals and C Programming		4	3	25	75	100	4
III	Core 2: Digital Fundamentals and Architecture		4	3	25	75	100	4
III	Core Lab 1: Programming Lab - C		3	3	40	60	100	4
III	Allied 1: &&		5	3	25	75	100	4
IV	Environmental Studies #		2	3	-	50	50	2
	Semester II							
I	Language – II		6	3	25	75	100	4
II	English – II		6	3	25	75	100	4
III	Core 3: COBOL Programming		5	3	25	75	100	4
III	Core Lab 2: Programming Lab – COBOL		4	3	40	60	100	4
III	Core Lab 3: Programming Lab –Internet Basics		2	3	20	30	50	2
III	Allied 2: &&		5	3	25	75	100	4
IV	Value Education – Human Rights #		2	3	-	50	50	2
	Semester III							
III	Core 4: Data Structures		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: &&		6	3	25	75	100	4
IV	Skill based Subject I –- &&		5	3	20	55	75	3
IV	Tamil @ / Advanced Tamil# (OR) Non-major elective-1 (Yoga for Human Excellence)# / Women's Rights#		2	3	-	50	50	2
	Semester IV							
III	Core 6: System Software and Operating System		6	3	25	75	100	4
III	Core 7: Java Programming		6	3	25	75	100	4
III	Core Lab 5: : Programming Lab - JAVA		6	3	40	60	100	4
III	Allied 4: &&		6	3	25	75	100	4
IV	Skill based Subject 2 –(lab) &&		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: RDBMS & ORACLE	5	3	25	75	100	4
III	Core 9: Visual Programming – Visual Basic & Visual C++	5	3	25	75	100	4
III	Project Work Lab %%	5	-	-	-	-	-
III	Core Lab 5: Programming Lab. – V.B.,V C++ & ORACLE	6	3	40	60	100	4
	Elective I &&	5	3	25	75	100	4
IV	Skill based Subject 3- &&	4	3	20	55	75	3
	Semester VI						
III	Core 10: Graphics & Multimedia	5	3	25	75	100	4
III	Core 11: Project Work Lab %%	5	3	-	200	200	8
III	Core Lab 6: Programming Lab - Graphics & Multimedia	6	3	40	60	100	4
III	Elective II &&	5	3	25	75	100	4
III	Elective III &&	5	3	25	75	100	4
IV	Skill Based Subject 4 (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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&& Please see Annexure for list of Allied, Elective and Skill Based Subjects

%% In lieu of theory paper – **see Project Work Guidelines**

List of Allied, Elective & Skill Based Subjects

COURSE / Subject	B.Sc. Computer Science
Allied-1	Mathematical Structures for Computer Science
Allied-2	Discrete Mathematics
Allied-3	Computer Based Optimization Techniques
Allied-4	Business Accounting
Elective- I	E-Learning*/Computer Networks/ Organizational Behavior*
Elective- II	Network Security and Cryptography/ Artificial Intelligence and Expert Systems / Web Technology
Elective- III	Data Mining*/ Open source software*/Mastering LAN & Trouble Shooting
Skill-1	Software Engineering and Software Project Management*
Skill-2-Lab	Software Project Management- Lab*
Skill-3	Software Testing
Skill-4-Lab	Software Testing Lab

	B.Sc. Information Technology
Allied-1	Mathematical Structures for Computer Science
Allied-2	Discrete Mathematics
Allied-3	Microprocessor & ALP
Allied-4	Embedded systems
Elective- I	Multimedia Systems / Animation Techniques / Business Intelligence*
Elective- II	Network Security and Administration/ Mobile Computing / Internet programming*
Elective- III	E- Learning */Component Technology/ Recent Trends in Enterprise Information Technology*
Skill-1	Introduction to web design & applications
Skill-2-Lab	HTML,XML,JAVA Script-Lab
Skill-3	DOT Net Programming
Skill-4_lab	Dot Net lab

	B.Sc. Computer Technology
Allied-1	Mathematical Structures for Computer Science
Allied-2	Discrete Mathematics
Allied-3	Microprocessor & ALP
Allied-4	TCP/IP Protocol*
Elective- I	Mobile Computing/Distributed Computing/Digital Image Processing
Elective- II	Middle ware Technologies*/Animation Techniques/ Computer installation &Servicing
Elective- III	Data Mining*/Embedded Systems/ Computer Aided Design and Manufacturing
Skill-1	Data communication & Networks
Skill-2	Network lab
Skill-3	Network security & management
Skill-4	Network security lab

	B.Sc. Software Systems
Allied-1	Mathematical Structures for Computer Science
Allied-2	Discrete Mathematics
Allied-3	Database systems
Allied-4	PRINCIPLES OF PROGRAMMING LANGUAGES
Elective- I	E-Commerce/ Design and Analysis of Algorithm*/ Web Technology
Elective- II	Computer Networks/Software Quality Assurance/ Management information Systems
Elective- III	Wireless Mobile Communications /Component Technology/ Mastering LAN & Trouble Shooting
Skill-1	WAP &XML*
Skill-2-lab	XML Lab*
Skill-3	ASP.Net
Skill-4- lab	ASP.Net Lab

	B.Sc. Multi Media & Web technology
Allied-1	Mathematical Structures for Computer Science
Allied-2	Discrete Mathematics
Allied-3	Web Services
Allied-4	Digital Image Processing
Elective- I	Web Technology /Software Engineering/ CASE Tools Concepts and applications*
Elective- II	Flash/Distributed Computing/ Multimedia Systems
Elective- III	3Ds MAX Animation/ /Software Project Management / Organizational Behavior*
Skill-1	Introduction to PHP Programming
Skill-2	PHP Programming Lab
Skill-3	Animation Techniques
Skill-4	Animation – Lab- FLASH

Subject	**B.Sc. Computer Science &Applications**
Allied-1	Mathematical Structures for Computer Science
Allied-2	Discrete Mathematics
Allied-3	Management information Systems
Allied-4	Organizational Behavior*
Elective- I	Client -Server Computing /E-Commerce/Software Engineering
Elective- II	Network Security & Cryptography/Distributed Computing/ Computer Networks
Elective- III	Mobile Computing/Web Technology/Software Testing
Skill-1	Internet Programming*
Skill-2	PHP Programming Lab*
Skill-3	WEB DESIGNING WITH ASP & ASP. Net
Skill-4	ASP LAB

Subject	**BCA**
Allied-1	Mathematical Structures for Computer Science
Allied-2	Discrete Mathematics
Allied-3	Computer Based Optimization Techniques
Allied-4	Business Accounting
Elective- I	Introduction to compiler design/ PHP & Scripting Language*/ Digital Image Processing
Elective- II	Computer Networks / .Net Programming / Distributed Computing
Elective- III	E-Commerce/ Web Services / Artificial Intelligence and Exp Systems
Skill-1	Web programming*
Skill-2	Web programming lab*
Skill-3	CASE Tools Concepts and applications*
Skill-4	CASE Tools –Lab*

Note: The Syllabus for the above papers will be the same as prescribed from the academic year 2011-12 onwards. The **Guidelines for Project Work** are furnished below:

GUIDELINES FOR PROJECT WORK

- 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 focusing on application oriented concepts.

- The project work should be compulsorily done in the college only under the supervision of the department staff concerned.

Viva Voce

- Viva-Voce will be conducted at the end of the semester by both Internal (Respective Guides) and External Examiners, after duly verifying the **Annexure Report** available in the College, for a total of 200 marks at the last day of the practical session.

- Out of 200 marks, 160 marks for project report and 40 marks for Viva Voce.