B.Com- 2010-11 & Onwards -Colleges Page 1 of 38 Annexure No.77-A SCAA – Dt. 28.05.2010

BHARATHIAR UNIVERSITY : COIMBATORE-641 046

B.Com. (Bachelor of Commerce)

(For the students admitted during the academic year 2010-11 and onwards)

	50	Study Components Course Title				ninatio	ns	
Part	-		Dur.Hr	CIA	Marks	Total	Credits	
	SEMESTER -I							
Ι	Language-I		6	3	25	75	100	4
II	English-I		6	3	25	75	100	4
III	Core I – Princip	les of Accountancy	5	3	25	75	100	4
III	Core II–Busines	s Organization & Office Management	5	3	25	75	100	4
III	Allied Paper I -	Agricultural Economic of India	6	3	25	75	100	4
IV	Environmental S	Studies #	2	3	-	50	50	2
	SEMESTER -I	Ι						
Ι	Language-II		6	3	25	75	100	4
II	English-II		6	3	25	75	100	4
III	Core III – Fina	ncial Accounting	5	3	25	75	100	4
III		ciples of Marketing	5	3	25	75	100	4
III	Allied Paper II	– Economic Analysis	6	3	25	75	100	4
IV		n – Human Rights #	2	3	-	50	50	2
	SEMESTER -I							
III	Core V – Higher	Financial Accounting	7	3	25	75	100	4
III	Core VI – Comr	nercial Law	6	3	25	75	100	4
III	Core VII – Princ	ciples of Management	6	3	25	75	100	4
III	Allied : III - Ma	thematics for Business	6	3	25	75	100	4
IV	Skill based Subj	ect -1 : Business Application Software-I	3	3	20	55	75	3
IV		nced Tamil # (or)Non-Major Elective–I						
	Yoga for Humar	n Excellence # / Women's Rights #	2	3	5	50	50	2
	Constitution of l	índia #						
	SEMESTER -I	V						
III	Core VIII – Cor	porate Accounting-I	5	3	25	75	100	4
III	Core IX – Com	puter Applications in Business	4	3	25	75	100	4
III	Core X – Company Law and Secretarial Practice		4	3	25	75	100	4
III	Core XI – Executive Business Communication		3	3	20	55	75	3
III	Core XII – Banking Theory		3	3	20	55	75	3
III	Allied : IV : Statistics for Business		6	3	25	75	100	4
IV	Skill based Subject-2 : Computer Applications (MS-Word and MS-Excel)-Practical –I		3	3	30	45	75	3
IV	Tamil @ / Adva	anced Tamil # (or) ive -II : General Awareness #	2	3 50 50		50	2	

SCHEME OF EXAMINATION – CBCS PATTERN

	SEMESTER V						
III	Core XIII –Corporate Accounting-II	6	3	25	75	100	4
III	Core XIV – Banking Law and Practices	5	3	25	75	100	4
III	Core XV – Cost Accounting	5	3	25	75	100	4
III	Core XVI – Income Tax Law and Practice	6	3	25	75	100	4
III	Elective –I :	5	3	25	75	100	4
IV	Skill based Subject-3 : Business Application Software-II	3	3	20	55	75	3
	SEMESTER –VI						
III	Core XVII – Management Accounting	6	3	25	75	100	4
III	Core XVIII - Principles of Auditing	5	3	25	75	100	4
III	Core XIX - Indirect Tax	6	3	25	75	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 : Computer Applications : MS- PowerPoint, MS-Access and Tally 9.2 -Practical-II	3	3	30	45	75	3
V	Extension Activities @	-		50	-	50	2
	TOTAL					3500	140

\$ Includes 25% / 40% continuous internal assessment marks for theory and practical papers respectively.

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

List of	List of Elective Papers (Colleges can choose any one of the paper as electives)						
Elective – I	А	Business Finance					
	В	Brand Management					
	С	Fundamentals of Insurance					
Elective – II	А	Entrepreneurial Development					
	В	Supply Chain Management					
	С	Principles of Web Designing					
Elective - III	А	Financial Markets					
	В	Insurance Legislative Framework					
	С	Project Work					

BHARATHIAR UNIVERSITY,COIMBATORE-641 046 B.Com – CA (Computer Applications)

(For the students admitted during the academic year 2015-16 and onwards)

SCHEME OF EXAMINATION – CBCS PATTERN

			/		E	xam		_
Part	Study Components	Course Title	Ins. hrs week	Dur.Hrs	CIA	Mark	Total	Credits
	SEMESTER -	I						
Ι	Language-I		6	3	25	75	100	4
II	English-I		6	3	25	75	100	4
III	Core I – Princip	bles of Accountancy	4	3	25	75	100	4
III	Core II – Introd	uction to Information Technology	4	3	25	75	100	4
III		Mathematics for Business	4	3	25	75	100	4
III	Core-IV:Compu	ter Applications: MS Office - Practical-I	4	3	-	-	-	-
IV	Environmental S	Studies #	2	3	-	50	50	2
	SEMESTER –	П						
Ι	Language-II		6	3	25	75	100	4
II	English-II		6	3	25	75	100	4
III	Core III – Adv	anced Accounting	7	3	25	75	100	4
III	Core IV–Compu	iter Application: MS Office - Practical-I	4	3	40	60	100	4
III	Allied Paper II – Statistics for Business		5	3	25	75	100	4
IV		n – Human Rights #	2	3	-	50	50	2
	SEMESTER -	III						
III	Core V – Princi	ples of Marketing	5	3	25	75	100	4
III	Core VI – Data	base Management System	5	3	25	75	100	4
III	Core VII – Cost	Accounting	6	3	25	75	100	4
III	Allied : III - M	anagerial Economics	5	3	25	75	100	4
III	Core-VIII : Con	nputer Applications: Oracle -Practical-II	4	3	-	-	-	-
IV	Skill based Subj	ect-1 : Commercial Law	3	3	20	55	75	3
IV	Yoga for Human Constitution of I		2	3			50	2
	SEMESTER –							
III		gement Accounting	6	3	25	75	100	4
III		ct Oriented Programme with C++	5	3	25	75	100	4
III		ative Business Communication	3	3	20	55	75	3
III	Core XII – Computer Applications : Oracle & C++ Practical-II		4	3	40	60	100	4
III	Core XIII – Banking Theory		3	3	20	55	75	3
III	Allied : IV : Pri	nciples of Management	4	3	25	75	100	4
IV	Skill based Subj	ect-2 : Company Law	3	3	20	55	75	3
IV		nced Tamil # (or) ive - II : General Awareness #	2	3	4	50	50	2

B.Com-CA -Colleges – 2015-16 & Onwards-modified- Banking Theory Page 2 of 5 with corrected Scheme SCAA- Dt.24.04.2015

	SEMESTER – V						
III	Core XIV – Principles of Auditing	4	3	25	75	100	4
III	Core XV – Corporate Accounting	5	3	25	75	100	4
III	Core XVI – E-Commerce Technology	5	3	25	75	100	4
III	Core XVII - Software Development with Visual Basic	4	3	25	75	100	4
III	Core XVIII - Computer Applications : Visual Basic - Practical-III	4	3	-	-	-	-
III	Elective-I:	5	3	25	75	100	4
IV	Skill based Subject-3 : Banking and Insurance Law	3	3	20	55	75	3
	SEMESTER – VI						
III	Core XIX – Management Information System	6	3	25	75	100	4
III	Core XX - Internet and Web Designing	5	3	25	75	100	4
III	Core XXI - Computer Applications : Visual Basic		3				
	&Web Designing	4		40	60	100	4
	Practical-III						
III	Elective –II :	6	3	25	75	100	4
III	Elective –III :	6	3	25/	75/	100	4
		0		20	80	100	-
IV	Skill based Subject- 4 : Cyber Law	3	3	20	55	75	3
V	Extension Activities @	-	-	-	-	50	2
	Total					3500	140

\$ Includes 25% / 40% continuous internal assessment marks for theory and practical papers respectively.

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

List	List of Elective Papers (Colleges can choose any one of the paper as electives)						
Elective – I	А	Income Tax Law & Practice					
	В	Entrepreneurial Development					
	С	Micro Finance					
Elective – II	А	Business Finance					
	В	Brand Management					
	С	Supply Chain Management					
Elective – III	А	Indirect Taxes					
	В	Financial Markets					
	C	Project Work					

BHARATHIAR UNIVERSITY, COIMBATORE-641 046

<u>M.Com – CA (Computer Applications)</u>

For the students admitted during the academic year 2012-2013 and onwards)

SCHEME OF EXAMINATIONS : CBCS Pattern

				Exa	minati	ons	S
Study Components	Course Title	Ins. hrs week	Dur.Hr s	CIA	Marks	Total	Credits
Semester I							
Managerial Eco	nomics	6	3	25	75	100	4
Marketing Mana	agement	7	3	25	75	100	4
Database Manag	gement System	6	3	25	75	100	4
Computer Appli	cations: MS Office & Oracle -Practical-I	6	3	40	60	100	4
Elective-I :		5	3	25	75	100	4
Semester-II							
Corporate Acco	ounting	5	3	25	75	100	4
Human Resourc		5	3	25	75	100	4
Business Resour	rce Methods	5	3	25	75	100	4
Object Oriented	Programming with C++	5	3	25	75	100	4
Computer Appli	cations: Tally & C++ -Practical-II	6	3	40	60	100	4
Elective-II :	•	4	3	25	75	100	4
Semester-III							
Cost and Manag	ement Accounting	7	3	25	75	100	4
Visual Basic		6	3	25	75	100	4
Financial Manag	gement	6	3	25	75	100	4
Computer Appli	cations: Visual Basic, VB Script - Practical-III	6	3	40	60	100	4
	ining (Report 40 marks and Viva 10 mks.)	-	-	50	-	50	2
Elective-III :		5	3	25	75	100	4
Semester-IV							
Investment Man	agement	6	3	25	75	100	4
Direct Taxes	*	5	3	25	75	100	4
Java Programming and HTML		5	3	25	75	100	4
Project Work & Viva-Voce (Project-160 & Viva-40) (OR)		10	3	-	-	200	8
In lieu of Project work, the following two papers may be							
opted.			3	25	75	(100)	(4)
1. Principles and Practice of Insurance			3	25	75	(100)	(4)
2. Industrial Lav	2. Industrial Law						
Elective-IV		4	3	25	75	100	4
	TOTAL	-	-	-	-	2250	90

BHARATHIAR UNIVERSITY: COIMBATORE-641 046 B.Sc. CS/IT/CT/SS/MM/CSA &BCA

(For the students admitted from the academic year 2015-2016 onwards)

SCHEME OF EXAMINATION - CBCS PATTERN

			sk	Examinations				
Part	Study Component s	Course title	Ins. hrs/ week	Dur.Hrs	CIA	Marks	Total Marks	Credit
	Semester I					4		
Ι	Language – I		6	3	25	75	100	4
II	English – I		6	3	25	75	100	4
III	Core 1: Com Programming	puting fundamentals and C	4	3	25	75	100	4
III		al Fundamentals and Architecture	4	3	25	75	100	4
III	Core Lab 1: I	Programming Lab - C	3	3	40	60	100	4
III	Allied 1: &	&	5	3	25	75	100	4
IV	Environment	al Studies #	2	3	-	50	50	2
	Semester II							
Ι	Language – I	Ι	6	3	25	75	100	4
II	English – II		6	3	25	75	100	4
III	Core 3: COB	OL Programming	5	3	25	75	100	4
III	Core Lab 2: I	Programming Lab – COBOL	4	3	40	60	100	4
III	Core Lab 3: I	Programming Lab –Internet Basics	2	3	20	30	50	2
III	Allied 2: &&		5	3	25	75	100	4
IV	Value Educat	tion – Human Rights #	2	3	-	50	50	2
	Semester III							
III	Core 4: Data S	Structures	6	3	25	75	100	4
III	Core 5: C++ P	rogramming	6	3	25	75	100	4
III	Core Lab 3: Pr	rogramming Lab - C++	5	3	40	60	100	4
III	Allied 3: &&		6	3	25	75	100	4
IV	Skill based Su	ıbject I &&	5	3	20	55	75	3
IV	Non-major el	vanced Tamil# (OR) lective-1 (Yoga for Human Women's Rights#	2	3	-	50	50	2
	Semester IV					1		
III	Core 6: System	n Software and Operating System	6	3	25	75	100	4
III	Core 7: Java F	Programming	6	3	25	75	100	4

B.Sc. CS/IT/CT/SS/MM/CSA &BCA 2015-16 onwards Page 2 of 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	6	3	25	75	100	4
III	Core 9: Visual Programming – Visual Basic & Visual C++	6	3	25	75	100	4
III	Core Lab 5: Programming Lab. – V.B.,V C++ & ORACLE	6	3	40	60	100	4
	Elective I &&	6	3	25	75	100	4
IV	Skill based Subject 3- &&	6	3	20	55	75	3
	Semester VI						
III	Core 11: Graphics & Multimedia	5	3	25	75	100	4
III	Core 12: 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)

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

%% see Guidelines for Project Work.

Note: The Syllabus for the above papers (except **ALLIED - 4: BUSINESS ACCOUNTING**) be the same as prescribed for the academic year 2014-15. The revised syllabi for the paper Allied 4 **Business Accounting** and **Guidelines for Project Work** are furnished below:

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

List of Allied, Elective & Skill Based Subjects

	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
A 11' 1 1	
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.

BHARATHIAR UNIVERSITY, COIMBATORE.

M. Sc. COMPUTER SCIENCE (Affiliated Colleges)

(Effective for the candidates admitted from the academic Year 2015-2016)

r	Der	$\mathbf{EV} = \mathbf{C} \mathbf{D}$						
			S]	Exam	1	L.
Sem.	Study Components	Course title	Ins. hrs/ week	Dur.	CIA	Mark	Total Mark	Credit
	Semester I							
	Paper I Analy	sis & Design of Algorithms	5	3	25	75	100	4
		ect Oriented Analysis and Design &	5	3	25	75	100	4
	Paper III Adv	anced Networks	5	3	25	75	100	4
		anced Software Engineering	5	3	25	75	100	4
		gorithm and OOPS Lab	5	3	40	60	100	4
	Practical II S	oftware Testing Lab	5	3	40	60	100	4
TT		X <i>t</i> ¹ ¹ ¹ ¹	4	2	25	75	100	4
II	L	Mining and Warehousing	4	3	25	75	100	4
	_	anced Operating Systems	4	3	25	75	100	4
		rnet and Java Programming	4	3	25	75	100	4
	*	ficial Intelligence & Expert Systems	4	-	25	75	100	4
	Elective – I		4	3	25	75	100	4
	Practical III A Programming	dvanced Concept of Internet & Java Lab	5	3	40	60	100	4
	Practical IV D	ata Mining using R	5	3	40	60	100	4
III	Paper IX Digi	tal Image Processing	4	3	25	75	100	4
	Paper X Adva	nced Tools in Computing	4	3	25	75	100	4
	Paper XI Netv	work Security and Cryptography	4	3	25	75	100	4
		siness Intelligence	4	3	25	75	100	4
	Elective – II		4	3	25	75	100	4
	Practical V A	dvanced Tools in Computing Lab	5	3	40	60	100	4
	Practical VI matlab	Digital Image processing using	5	3	40	60	100	4
IV	Project work a	nd Viva voce					250*	10
	Total						2250	90

SCHEME OF EXAMINATIONS – CBCS PATTERN

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

ELECTIVE – I.

- 1.1. Multimedia and its Applications
- 1.2. Embedded Systems
- 1.3. Open source systems

ELECTIVE – II 2.1. Mobile Computing 2.2.Cloud computing

2.3.Web Services

Annexure No. 28 A SCAA Dt. 06.02.2014

BHARATHIAR UNIVERSITY, COIMBATORE. MASTER OF COMPUTER APPLICATIONS (MCA) DEGREE COURSE (Affiliated Colleges - Effective from the academic Year 2014-2015)

ijjululeu Colleges - Effective from the academic Tear 2014-2015

ŗ					Examinations			
Semester	Study Components	Course title	Ins. hrs/ week	Dur.	CIA	Marks	Total Marks	Credit
	Paper I : Introd	luction to Information Technology	4	3	25	75	100	3
	Paper II : Comp	outer Organization and Architecture	4	3	25	75	100	3
	Paper III : Proble	em Solving in C	4	3	25	75	100	4
Ι	Paper IV : Accou	inting and Financial Management	4	3	25	75	100	3
	Paper V : Web I	Designing	4	3	25	75	100	4
	Practical I : Pro	blem Solving using C Lab	5	3	40	60	100	4
	Practical II: We	b Designing Lab	5	3	40	60	100	4
	Paper VI : Dat	a Structures	4	3	25	75	100	3
	Paper VII : Relational Database Management Systems			3	25	75	100	4
II	Paper VIII : Ope	erating Systems	4	3	25	75	100	3
II		ect Oriented Analysis and Design C++	4	3	25	75	100	4
	1	hematical Foundations of puter Science	4	3	25	75	100	3
	Practical III : Da	ata Structures Lab Using C++	5	3	40	60	100	4
	Practical IV: R	DBMS Lab	5	3	40	60	100	4
	Paper XI : Visua	al Programming	4	3	25	75	100	4
	Paper XII : Java		4	3	25	75	100	4
	-	lysis & Design of Information Systems	4	3	25	75	100	3
III	Paper XIV: Com		4	3	25	75	100	3
	Paper XV : Oper		4	3	25	75	100	3
	Practical V : Vi	sual Programming Lab	5	3	40	60	100	4
	Practical VI : Ja	va Programming Lab	5	3	40	60	100	4
		NET Deserves	4	2	25	75	100	4
I	Paper XVI :	NET Programming	4 (3	25	75	100	4

SCHEME OF EXAMINATIONS - CBCS PATTERN

M.C.A. (Colleges) 2014-15 onwards Page 2 of 45 Annexure No. 28 A SCAA Dt. 06.02.2014

	Paper XVII : Computer Graphics and Multimedia	4	3	25	75	100	4
	Paper XVIII : Software Engineering	4	3	25	75	100	3
	Paper XIX : Elective – I	4	3	25	75	100	3
	Paper XX : Elective – II	4	3	25	75	100	3
	Practical VII : .NET programming Lab	5	3	40	60	100	4
	Practical VIII : Graphics and Multimedia Lab	5	3	40	60	100	4
	Paper XXI : Software Testing	4	3	25	75	100	4
	Paper XXII : Network Security and Cryptography	4	3	25	75	100	3
T 7	Paper XXIII : Data Mining and Warehousing	4	3	25	75	100	3
V	Paper XIV : Elective – III	4	3	25	75	100	3
	Paper XXV : Elective – IV	4	3	25	75	100	3
	Practical IX : Mini Project	5	-	-	-	100*	5
	Practical X : Software Testing Lab	5	3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4		
VI	Project work and Viva voce					200**	10
	Total					3700	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. Open Source System

ELECTIVE – III

- E.3.1. Web Services
- E.3.2. Middleware Technologies
- E.3.3. Neural Networks

ELECTIVE – II

- E.2.1. Mobile computing
- E.2.2. Distributed Computing

E.2.3. Cloud Computing ELECTIVE – IV

- E.4.1. E-Commerce
- E.4.2. Embedded systems
- E.4.3. Information Retrieval Techniques

BHARATHIAR UNIVERSITY (CBSC PATTERN) B. Sc. BIOCHEMISTRY DEGREE COURSE

For the students admitted during the academic year 2015–2016 batch and onwards

	7	SCHEWIE OF EXAMINATION	- CDC	SIA				,
	Study				Examinations			
Part	Components	Course title	Ins. hrs/ week	Dur.Hrs	CIA	Marks	Total Marks	Credit
	Semester I							
Ι	Language – I		6	3	25	75	100	4
II	English – I		6	3	25	75	100	4
III	Core Paper I -	Biomolecules	3	3	25	75	100	4
	Core Paper II	- Cell Biology	3	3	25	75	100	4
	Core Biochem	istry Practical – I	2	-	-	-	-	-
	Allied A : Pap	per I – Chemistry	6	3	20	55	75	4
	Allied Chemis	try Practicals	2	3	-	-	-	-
IV	Environmenta	l Studies #	2	3	-	50	50	2
	Semester II							
Ι	Language – II		6	3	25	75	100	4
Π	English – II		6	3	25	75	100	4
III	Core Paper III	- Biomedical Instrumentations	5	3	25	75	100	4
	Core Biochem	istry Practical – I	3	3	40	60	100	4
		per II - Chemistry	6	3	20	55	75	3
	Allied Practica	al – Chemistry	2	3	20	30	50	2
IV	Value Educati	on – Human Rights #	2	3	-	50	50	2
	Semester III							
Ι	Language – II	[6	3	25	75	100	4
II	English – III		6	3	25	75	100	4
III	Core Paper Technology	IV - Enzyme and Enzyme	3	3	25	75	100	4
	Core Paper V	– Microbiology	3	3	25	75	100	4
		istry Practical - II	2	-	-	-	-	-
	Allied B: Pape	er I – Basic Mathematics	6	3	20	55	75	3
IV	Skill based Su	bject I - Bioinformatics	2	3	20	55	75	3
		vanced Tamil# (OR)				•		
	Non-major el	ective - I (Yoga for Human	2	3		50	50	2
		Women's Rights#						
	Semester IV							
Ι	Language – IV		6	3	25	75	100	4
II	English – IV		6	3	25	75	100	4
III	Core Paper IV	- Intermediary Metabolism	4	3	25	75	100	4

SCHEME OF EXAMINATION - CBCS PATTERN

B.Sc. Bio-Chemistry revised papers 2015-16 onwards Page 2 of 4

Annexure No.26A SCAA Dt. 24.04.2015

				• •			
	Core Biochemistry Practical – II	3	6	30	45	75	3
	Allied B : Paper II – Computer	4	3	20	55	75	3
	Practical – Computer	2	3	20	30	50	2
IV	Skill based Subject 2 - Basics of Information Technology	3	3	20	55	75	3
	Tamil @ /Advanced Tamil # (OR)Non-major elective -II (General Awareness #)	2	3		50	50	2
	Semester V						
III	Core Paper VII – Human Physiology	4	3	25	75	100	4
	Core Paper VIII – Clinical Biochemistry	4	3	25	75	100	4
	Core Paper IX – Molecular Biology	4	3	25	75	100	4
	Core Paper X – Genetic Engineering and Bioprocess Technology	3	3	25	75	100	4
	Biochemistry Practical – III	4	-	-	-	-	-
	Biochemistry Practical - IV	4	-	-	-	-	-
	Elective – I	4	3	20	55	75	3
IV	Skill based Subject 3 – Basics of Patent and Bioethics	3	3	20	55	75	3
	Semester VI						
III	Core Paper XI – Plant Biochemistry and Plant Therapeutics	4	3	25	75	100	4
	Core Paper XII – Medicinal Chemistry	4	3	25	75	100	4
	Biochemistry Practical – III	4	6	30	45	75	3
	Biochemistry Practical – IV	4	6	30	45	75	3
	Elective – II	4	3	20	55	75	3
	Elective – III	4	3	20	55	75	3
IV	Skill Based Subject 4 - Practical – Bioinformatics	6	6	30	45	75	3
V	Extension Activities @	-	-	50	-	50	2
	Total					3500	140

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

List of Ele	List of Elective papers (Colleges can choose any one of the papers as electives)							
	А	Immunology and Immunotechniques						
Elective - I	В	Introduction to Biomaterials						
	С	Nutritional Biochemistry						
	А	Plant and Animal Biotechnology						
Elective - II	В	Nanomaterials and Nanomedicine						
	С	Health and Hygiene						
	А	Diagnostic Biochemistry						
Elective - III	В	Sports Biochemistry						
	С	Nanobiotechnology						

Note :

The syllabus for the above papers (except Core paper Cell Biology, Semester V - Skill based subject 3) be same as prescribed for the academic year 2010-11. The syllabus for the Core paper Cell Biology and Semester V - Skill based subject 3 –basics of Patent and Bioethics) are furnished below.

M.Sc. Biochemistry (Colleges) 2010-11 Page 1 of 36

BHARATHIAR UNIVERSITY, COIMBATORE. M. Sc., BIOCHEMISTRY DEGREE COURSE

(AFFILIATED COLLEGES)

(Effective from the academic Year 2015-2016)

SCHEME OF EXAMINATIONS – CBCS PATTERN

				Examinations			
SEM	Subject and Paper	Inst. Hrs/	Dur.H	CIA	Marks	Total Marks	Credit
Ι	Paper-I Biopolymers	5	3	25	75	100	4
	Paper-II Analytical Biochemistry and Bioinformatics	5	3	25	75	100	4
	Paper-III Enzymes and Enzyme Technology	4	3	25	75	100	4
	Paper-IV Cellular Biochemistry	4	3	25	75	100	4
	Paper-V Plant Biochemistry and Biotechnology	4	3	25	75	100	4
	Practical-I Core Biochemistry Practical-I	5	-	-	-	-	-
	Elective – Paper I	3	3	25	75	100	4
II	Paper-VI Microbial Biochemistry	5	3	25	75	100	4
	Paper-VII Immunology	5	3	25	75	100	4
	Paper-VIII Advanced Clinical Biochemistry	5	3	25	75	100	4
	Paper-IX Molecular Biology	5	3	25	75	100	4
	Practical-I Core Biochemistry Practical-I	5	6	40	60	100	4
	Elective – Paper II	5	3	25	75	100	4
III	Paper-X Biostatistics and Research Methodology	5	3	25	75	100	4
	Paper-XI Metabolism and Metabolic	4	3	25	75	100	4
	Regulation Paper-XII Genetic Engineering	5	3	25	75	100	4
	Paper-XIII Endocrinology	4	$\frac{3}{3}$	$\frac{23}{25}$	75	100	4
	Paper-XIV Pharmaceutical Chemistry and	5	3	25	75	100	4
	Neurochemistry Practical –II Core Biochemistry Practical-II	4	-	_	-	-	-

	siEheatiwe(colleapero1111	3	-	Anŋ���yure			4
Pqggr2	Pfactical-II Core Biochemistry Practical-II	5	6	scæppt.	2865.2	⁰¹⁰ 100	4
	Project Work	20	6	100	150	250*	10
	Elective – Practical/ Project	5	6	40	60	100*	4
	Total					2250	90

- * For Project report 80%; Viva-voce 20% [Assessment of Internal marks should be based on Monthly assessment and report by the concerned guide and HOD]
- * Includes 25 / 40% continuous internal assessment marks for theory and practical papersrespectively.

BHARATHIAR UNIVERSITY, COIMBATORE:641 046 B.Sc. MICROBIOLOGY DEGREE COURSE SCHEME OF EXAMINATION - CBCS PATTERN (AFFILIATED COLLEGES) (For the students admitted from the academic year 2015 – 2016 batch onwards)

					Exa	minatio	ns	
Part	Study Components	Course title	Ins. hrs/ week	Dur.Hrs.	CIA	Marks	Total Marks	Credit
	Semester I							
Ι	Language – I		6	3	25	75	100	4
II	English – I		6	3	25	75	100	4
II	Core Paper I - Fur	ndamentals of Microbiology	6	3	25	75	100	4
	Practical I and Viv	va Voce	4	-	-	-	-	-
	Allied A : Paper Applications I	I – Biostatistics and Computer	4	3	20	55	75	3
	Allied Practical		2	-	-	-	-	-
IV	Environmental St	udies #	2	-	-	50	50	2
	Semester II							
Ι	Language – II	6	3	25	75	100	4	
II	English – II		6	3	25	75	100	4
III	Core Paper II - and Applications	4	3	25	75	100	4	
	Core Paper III - G	eneral Biology	3	3	25	75	100	4
	Core Practical I and		3	3	30	45	75	3
	Allied A : Paper Applications II	II - Biostatistics and Computer	4	3	20	55	75	3
	Allied Practical		2	3	20	30	50	2
IV	Value Education -	- Human Rights #	2	3	-	50	50	2
	Semester III							
Ι	Language – III		6	3	25	75	100	4
II	English – III		6	3	25	75	100	4
III	Core Paper IV - N	ficrobial Diversity	4	3	25	75	100	4
	Core Practical II		3	3	-	-	-	-
	Allied B: Paper I – Biochemistry I			3	20	55	75	3
	Allied Practical			-	-	-	-	-
IV	Skill based Subject I – Medical Laboratory Technology – Clinical Laboratory Technology			3	20	55	75	3
	Tamil @ / Advand	ced Tamil# (OR) ive - I (Yoga for Human	2	3	:	50	50	2

	Semester IV						
Ι	Language – IV	6	3	25	75	100	4
II	English – IV	6	3	25	75	100	4
III	Core Paper V – Microbial Physiology	4	3	25	75	100	4
	Core Practical – II	3	6	30	45	75	3
	Allied B : Paper II – Biochemistry II	4	3	20	55	75	3
	Allied Practical	2	3	20	30	50	2
IV	Skill based Subject 2 - Medical Laboratory						
	Technology – Diagnostic Microbiology I	3	3	20	55	75	3
	(Bacteriology and Serology)						
	Tamil @ /Advanced Tamil # (OR)	2	3		50	50	2
	Non-major elective -II (General Awareness #)	2	5	•	50	50	2
					1		
	Semester V						
III	Core Paper VI - Microbial Genetics	5	3	25	75	100	4
	Core Paper VII – Principles of Immunolgy	4	3	25	75	100	4
	Core Paper VIII– Food Microbiology	4	3	25	75	100	4
	Core Paper IX–Recombinant DNA Technology- I	4	3	25	75	100	4
	Elective 1	4	3	25	75	100	4
	Core Practical - III	6	3	-	-	-	-
IV	Skill based Subject 3 – Medical Laboratory						
	Technology – Diagnostic Microbiology II	3	3	20	55	75	3
	(Virology and Mycology, Parasitology)						
	Semester VI						
III	Core Paper X – Industrial Microbiology	4	3	25	75	100	4
	Core Paper XI – Environmental and Agricultural	4	3	25	75	100	4
	Microbiology						
	Core Paper XII – Virology	4	3	25	75	100	4
	Core Practical – III	6	9	40	60	100	4
	Elective – II	4	3	25	75	100	4
	Elective – III	4	3	25	75	100	4
IV	Skill Based Subject 4 - Diagnostic Microbiology – Practical	4	3	30	45	75	3
V	Extension Activities @	-	-	-	-	50	2
	Total					3500	140

Students should undergo an institutional training for a continuous period of 15 days before semester VI

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

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

List	List of Elective papers (Colleges can choose any one of the paper as electives)						
Elective – I	- I A Medical Microbiology						
	В	Entomology					
	С	Applied Plant Biology					
Elective – II	Α	Recombinant DNA Technology - II					
	В	Enterpreneurial Microbiology					
	С	Bio-Molecules					
Elective - III	Α	Dairy Microbiology					
	B	Medical Biochemistry					
	С	Bionanotechnology					

BHARATHIAR UNIVERSITY, COIMBTORE:641 046 M.Sc. MICROBIOLOGY SCHEME OF EXAMINATION (CBCS PATTERN) (For the students admitted during the academic year 2015-2016 Batch onwards)

	or the students admitted during the acade	Ins. hrs / week	Exam					
Study Components	Course Title		Dur. Hrs.	CIA	Uni. exam	Total	Credit	
Semester I								
Paper I	Fundamentals of Microbiology and Bioinformatics	5	3	25	75	100	4	
Paper II	Microbial Physiology and Biochemistry	5	3	25	75	100	4	
Paper III	Applied Biotechniques	5	3	25	75	100	4	
Paper IV	Environmental and Agricultural Microbiology	5	3	25	75	100	4	
Practical	Practical I	5	-	-	-	-	-	
Elective	Paper I	5	3	25	75	100	4	
Semester II								
Paper V	Molecular Genetics	5	3	25	75	100	4	
Paper VI	Virology and Nanotechnology	5	3	25	75	100	4	
Paper VII	Bioprocess Technology	5	3	25	75	100	4	
Paper VIII	Engineering of Genes and Proteins	5	3	25	75	100	4	
Practical	Practical I	-	9	40	60	100	4	
Practical	Practical II	5	9	40	60	100	4	
Elective	Paper II	5	3	25	75	100	4	
Semester III								
Paper IX	Immunology and Immunotechnology	5	3	25	75	100	4	
Paper X	Medical Microbiology	5	3	25	75	100	4	
Paper XI	Biotechnology and IPR	5	3	25	75	100	4	
Paper XII	Microbial Food Technology	5	3	25	75	100	4	
Paper XIII	Biostatistics and Research Methodology	5	3	25	75	100	4	
Practical	Practical III	5	-	-	-	-	-	
Semester IV								
Elective	Paper III	5	3	25	75	100	4	
Practical	Practical III	5	9	40	60	100	4	
Project	Project and viva voce	-	-	-	-	200*	8	
Training	Industrial training and viva voce @	-	-	50	-	50*	2	
Elective	Paper IV -Practical	5	9	40	60	100	4	
	Total					2250	90	

* Project Report – 160 Marks, Viva voce- 40 Marks

* Students should undergo an institutional/industrial training relevant to any one of theory paper for a continuous period of 15 days before semester IV and submit report along with attendance certificate. Training Report -40 Marks, Viva voce- 10 Marks.

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

List of Group Elective papers (Colleges can choose any one of the Group papers as electives)

	GROUP A	GROUP B	GROUP C
Paper I/Sem I	Principles of Quality	Environment and Health	Basic Biological Sciences
	Assuarance		
Paper II/Sem II	Quality Assessment in	Communicable and Non-	Biophysics and Biochemistry
	Pharmaceuticals	communicable diseases	
Paper III/Sem IV	Total Quality Management	Health care of the	Molecular Cytology and Tissue
	(TQM)	community	Engineering
Paper IV/Sem IV	Practical	Practical	Practical

Guidelines for the Project Work:

Two reviews to be conducted with all the students & staff members in the month of Jan. & Feb. 2^{nd} review if necessary an external expert may be called.

BHARATHIAR UNIVERSITY, COIMBATORE-641 046

(For the students admitted from the academic year 2015-16 and onwards)

SCHEME OF EXAMINATIONS – CBCS Pattern

		Course Title			xami	inatio	ons	S
Part	Study Components			Dur. Hrs.	CIA	Marks	Total Marks	Credits
	SEMESTER -I	[
Ι	Language-I		6	3	25	75	100	4
II	English-I		6	3	25	75	100	4
III	Core I – Manag	ement Process	5	3	25	75	100	4
III	Core II-Busine	ess Communication	5	3	20	55	75	3
III	Allied Paper I -	- Mathematics for Management-I	6	3	25	75	100	4
IV	Environmental S	Studies #	2	-	-	50	50	2
	SEMESTER -I	I						
Ι	Language-II		6	3	25	75	100	4
II	English-II		6	3	25	75	100	4
III	Core III – Orga	nisational Behaviour	5	3	20	55	75	3
III	-	omics for Executives	6	3	25	75	100	4
III	Allied Paper II	– Mathematics for Management-II	5	3	25	75	100	4
IV		n – Human Rights #	2	-	-	50	50	2
	SEMESTER –III							
III	Core V – Financ	tial Accounting	5	3	25	75	100	4
III		iction and Material Management	5	3	25	75	100	4
III		keting Management	5	3	25	75	100	4
III	Core VIII – Bus	iness Law	5	3	25	75	100	4
III	Allied : III - PO	C Software (Ms Office) – Practical	5	3	40	60	100	4
IV		ect-1 : Communication Skills 1^	3	3	30	45	75	3
IV	•	nced Tamil # (or) Non-major elective-I :						
		n Excellence # / Women's Rights #	2	-	5	0	50	2
	Constitution of	India #						
	SEMESTER -I	V						
III	Core IX - Huma	n Resource Management	5	3	25	75	100	4
III	Core X – Cost & Management Accounting		5	3	25	75	100	4
III	Core XI – Advertising and Sales Promotion		5	3	25	75	100	4
III	Core XII – Management Information System		5	3	25	75	100	4
III	Allied : IV – Financial Accounting Package – Tally (Practical only)		5	3	40	60	100	4
IV		ect-2 : Communication Skills II ^	3	3	30	45	75	3
IV	Tamil @ / Adva	nced Tamil # (or) ive-II : General Awareness #	2	-	5	0	50	2

B.B.A (Bachelor of Business Administration)

	SEMESTER –V						
III	Core XIII – Financial Management	6	3	25	75	100	4
III	Core XIV – Research Methods for Management	5	3	25	75	100	4
III	Core XV - Insurance Principles and Practice	5	3	25	75	100	4
III	Core XVI – Taxation Law and Practice	6	3	25	75	100	4
III	Elective –I :	5	3	25	75	100	4
IV	Skill based Subject –3 : Campus to Corporate ^	3	3	30	45	75	3
	SEMESTER –VI						
III	Core XVII – Entrepreneurship and Project Management	6	3	25	75	100	4
III	Core XVIII - Investment Management	6	3	25	75	100	4
III	Core XIX – Services Marketing	5	3	25	75	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 : Soft Skills for Business ^		3	30	45	75	3
V	Extension Activities @	-	-	50	-	50	2
	TOTAL	-	-	-	-	3500	140

B.B.A (Bachelor of Business Administration)

^ Refer the detailed note on this curricular aspect

\$ Includes 25% / 40% continuous internal assessment marks for theory and practical papers respectively.

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

List of 1	List of Elective papers (Colleges can choose any one of the paper as electives)						
Elective – I	Α	A Portfolio Analysis and Management					
	B	Modern Office Management					
	С	Company Law and Secretarial Practice					
	D	Customer Relationship Management					
Elective – II	Α	Banking Law and Practice					
	B	Industrial Relations and Labour Laws					
	С	Strategic Management					
	D	Consumer Behaviour					
Elective - III	Α	Financial Services					
	B	Project Work & Viva-Voce					
	С	E-Commerce					
	D	Global Business Management					

Project Work & Viva-Voce

Project Work-50 Marks (25 Marks for Internal and 25 Marks for External) & Viva Voce-50 marks (External) : (25 marks for Internal Assessment & 75 marks for External Assessment)

B.B.A – C.A (Computer Applications)

			/		on			
Part	Study Components	Course Title	Ins. Hrs / Week	Dur.Hrs.	CIA	Marks	Total Marks	Credit
	SEMESTER -I							
Ι	Language-I		6	3	25	75	100	4
II	English-I		6	3	25	75	100	4
III	Core I – Manag	ement Process	5	3	25	75	100	4
III	Core II-Busine	ess Communication	5	3	20	55	75	3
III	Allied Paper I:	Mathematics for Management –I	6	3	25	75	100	4
IV	Environmental S	Studies #	2	-	-	50	50	2
	SEMESTER -I	I						
Ι	Language-II		6	3	25	75	100	4
II	English-II		6	3	25	75	100	4
III	Core III – Orga	anisational Behaviour	5	3	20	55	75	3
III	Core IV – PC S	oftware (MS Office) - Practical	6	3	40	60	100	4
III	Allied Paper II	: Mathematics for Management –II	5	3	25	75	100	4
IV	Value Education	2	-	-	50	50	2	
	SEMESTER -I	II						
III	Core V – Financ	tial Accounting	5	3	25	75	100	4
III	Core VI – Prod	uction and Materials Management	5	3	25	75	100	4
III	Core VII – Marl	keting Management	5	3	25	75	100	4
III	Core VIII – Bus		5	3	25	75	100	4
III	Allied Paper III (Practical only)	: Financial Accounting Package -Tally	5	3	40	60	100	4
IV		ect -1 : Communication Skills I^	3	3	30	45	75	3
IV		nced Tamil # (or) Non-major elective-I :						-
		n Excellence # / Women's Rights #	2	3		50	50	2
	SEMESTER -I	V						
III		an Resource Management	5	3	25	75	100	4
III		& Management Accounting	5	3	25	75	100	4
III	Core XI – Advertising and Sales Promotion		5	3	25	75	100	4
III		net and Web Page Design (Theory)	2	3	10	40	50	2
III	Core XIII – Internet Web Page Design Programming		30	50	2			
III	Allied Paper IV : Management Information System		5	3	25	75	100	4
IV	_	ect -2 : Communication Skills II ^	3	3	30	45	75	3
IV	Tamil @ / Adva	nced Tamil # (or)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			2		
	Non-major elect	ive -II : General Awareness #						

	SEMESTER –V						
III	Core XIV –Financial Management	6	3	25	75	100	4
III	Core XV – Research Methods for Management	5	3	25	75	100	4
III	Core XVI- Taxation Law and Practice	5	3	25	75	100	4
III	Core XVII–Visual Basic Theory	3	3	10	40	50	2
III	Core XVIII – Visual Basic & Oracle – Practical	3	3	20	30	50	2
III	Elective –I :	5	3	25	75	100	4
IV	Skill based Subject -3 : Campus to Corporate ^		3	30	45	75	3
	SEMESTER –VI						
III	Core XIX – Entrepreneurship & Project Management	6	3	25	75	100	4
III	Core XX – RDBMS & Oracle Programming	3	3	10	40	50	2
III	Core XXI – RDBMS & Oracle Programming - Practical	3	3	20	30	50	2
III	Core XXII – Services Marketing	5	3	25	75	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 : Soft Skills for Business ^		3	30	45	75	3
V	Extension Activities @		-	50	-	50	2
	TOTAL	-	-	-	-	3500	140

B.B.A – C.A (Computer Applications)

^ Refer the detailed note on this curricular aspect

\$ Includes 25% / 40% continuous internal assessment marks for theory and practical papers respectively.

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

List of 1	List of Elective papers (Colleges can choose any one of the paper as electives)						
Elective – I	ive – I A Insurance Principles and Practice						
	B	Modern Office Management					
	С	Software Design Technique					
	D	Customer Relationship Management					
Elective – II	Α	A Strategic Management					
	B	Industrial Relations and Labour Laws					
	С	Systems Analysis and Design					
	D	Consumer Behaviour					
Elective - III	Α	Financial Services					
	B	Project Work & Viva-Voce					
	С	E -Commerce					
	D	Multimedia					

Project Work & Viva-Voce

Project Work-50 Marks (25 Marks for Internal and 25 Marks for External) & Viva Voce-50 marks (External) : (25 marks for Internal Assessment & 75 marks for External Assessment)