

BHARATHIAR UNIVERSITY : COIMBATORE-641 046

**B.Com. (Bachelor of Commerce)**

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

**SCHEME OF EXAMINATION – CBCS PATTERN**

Part	Study Components	Course Title	Ins. hrs / week	Examinations				Credits
				Dur.Hr	CIA	Marks	Total	
	SEMESTER –I							
I	Language-I		6	3	25	75	100	4
II	English-I		6	3	25	75	100	4
III	Core I – Principles of Accountancy		5	3	25	75	100	4
III	Core II–Business 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 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 III – Financial Accounting		5	3	25	75	100	4
III	Core IV – Principles of Marketing		5	3	25	75	100	4
III	Allied Paper II – Economic Analysis		6	3	25	75	100	4
IV	Value Education – Human Rights #		2	3	-	50	50	2
	SEMESTER –III							
III	Core V – Higher Financial Accounting		7	3	25	75	100	4
III	Core VI – Commercial Law		6	3	25	75	100	4
III	Core VII – Principles of Management		6	3	25	75	100	4
III	Allied : III - Mathematics for Business		6	3	25	75	100	4
IV	Skill based Subject -1 : Business Application Software-I		3	3	20	55	75	3
IV	Tamil @ / Advanced Tamil # (or)Non-Major Elective–I Yoga for Human Excellence # / Women’s Rights # Constitution of India #		2	3	50		50	2
	SEMESTER –IV							
III	Core VIII – Corporate Accounting-I		5	3	25	75	100	4
III	Core IX – Computer 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 @ / Advanced Tamil # (or) Non-major elective -II : General Awareness #		2	3	50		50	2

	<b>SEMESTER –V</b>						
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
	<b>SEMESTER –VI</b>						
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
	<b>TOTAL</b>					<b>3500</b>	<b>140</b>

\$ 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.

<b>List of Elective Papers</b> (Colleges can choose any one of the paper as electives)		
<b>Elective – I</b>	A	Business Finance
	B	Brand Management
	C	Fundamentals of Insurance
<b>Elective – II</b>	A	Entrepreneurial Development
	B	Supply Chain Management
	C	Principles of Web Designing
<b>Elective - III</b>	A	Financial Markets
	B	Insurance Legislative Framework
	C	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**

Part	Study Components	Course Title	Ins. hrs / week	Exam				Credits
				Dur.Hrs	CIA	Mark	Total	
	SEMESTER – I							
I	Language-I		6	3	25	75	100	4
II	English-I		6	3	25	75	100	4
III	Core I – Principles of Accountancy		4	3	25	75	100	4
III	Core II – Introduction to Information Technology		4	3	25	75	100	4
III	Allied PaperI : Mathematics for Business		4	3	25	75	100	4
III	Core-IV:Computer Applications: MS Office - Practical-I		4	3	-	-	-	-
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 III – Advanced Accounting		7	3	25	75	100	4
III	Core IV–Computer 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	Value Education – Human Rights #		2	3	-	50	50	2
	SEMESTER – III							
III	Core V – Principles of Marketing		5	3	25	75	100	4
III	Core VI – Database Management System		5	3	25	75	100	4
III	Core VII – Cost Accounting		6	3	25	75	100	4
III	Allied : III - Managerial Economics		5	3	25	75	100	4
III	Core-VIII : Computer Applications: Oracle -Practical-II		4	3	-	-	-	-
IV	Skill based Subject-1 : Commercial Law		3	3	20	55	75	3
IV	Tamil @ / Advanced Tamil #(or)Non-major Elective–I : Yoga for Human Excellence # / Women’s Rights # Constitution of India #		2	3	50		50	2
	SEMESTER – IV							
III	Core IX – Management Accounting		6	3	25	75	100	4
III	Core X – Object Oriented Programme with C++		5	3	25	75	100	4
III	Core XI – Executive 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 : Principles of Management		4	3	25	75	100	4
IV	Skill based Subject-2 : Company Law		3	3	20	55	75	3
IV	Tamil @ /Advanced Tamil # (or) Non-major elective - II : General Awareness #		2	3	50		50	2

	<b>SEMESTER – V</b>						
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	<b>25</b>	<b>75</b>	<b>100</b>	4
IV	Skill based Subject-3 : Banking and Insurance Law	3	3	20	55	75	3
	<b>SEMESTER – VI</b>						
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 & Web Designing Practical-III	4	3	<b>40</b>	<b>60</b>	100	4
III	Elective –II :	6	3	25	75	100	4
III	Elective –III :	6	3	<b>25/</b> <b>20</b>	<b>75/</b> <b>80</b>	100	4
IV	Skill based Subject- 4 : Cyber Law	3	3	20	55	75	3
V	Extension Activities @	-	-	-	-	50	2
	<b>Total</b>					<b>3500</b>	<b>140</b>

\$ 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.

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

**BHARATHIAR UNIVERSITY, COIMBATORE-641 046**

**M.Com – CA (Computer Applications)**

(For the students admitted during the academic year 2016-2017 and onwards)

**SCHEME OF EXAMINATIONS : CBCS Pattern**

Study Components	Course Title	Ins. hrs / week	Examinations				Credits
			Dur.Hrs	CIA	Marks	Total	
Semester I							
Managerial Economics		6	3	25	75	100	4
Marketing Management		7	3	25	75	100	4
Database Management System		6	3	25	75	100	4
Computer Applications: MS Office & Oracle -Practical-I		6	3	40	60	100	4
Elective-I :		5	3	25	75	100	4
Semester-II							
Corporate Accounting		5	3	25	75	100	4
Human Resource Management		5	3	25	75	100	4
Business Research Methods		5	3	25	75	100	4
Object Oriented Programming with C++		5	3	25	75	100	4
Computer Applications: Tally & C++ -Practical-II		6	3	40	60	100	4
Elective-II :		4	3	25	75	100	4
Semester-III							
Cost and Management Accounting		7	3	25	75	100	4
Visual Basic		6	3	25	75	100	4
Financial Management		6	3	25	75	100	4
Computer Applications: Visual Basic,VB Script - Practical-III		6	3	40	60	100	4
Institutional Training (Report 40 marks and Viva 10 mks.)		-	-	50	-	50	2
Elective-III :		5	3	25	75	100	4
Semester-IV							
Investment Management		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) In lieu of Project work, the following two papers may be opted.		10	3	-	-	200	8
		5	3	25	75	(100)	(4)
		5	3	25	75	(100)	(4)
1. Principles and Practice of Insurance							
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 **2016-2017** and onwards)

**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: C++ Programming		5	3	25	75	100	4
III	Core Lab 2: Programming Lab – C++		4	3	40	60	100	4
III	Core Lab 3: 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: Java Programming		6	3	25	75	100	4
III	Core Lab 4: Programming Lab – Java		5	3	40	60	100	4
III	Allied 3: &&		6	3	25	75	100	4
IV	Skill based Subject 1 - &&		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: Linux and Shell Programming		6	3	25	75	100	4
III	Core Lab 5: Linux and Shell Programming Lab		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
	<b>Semester V</b>						
III	Core 8: RDBMS & Oracle	6	3	25	75	100	4
III	Core 9: Visual Basic	6	3	25	75	100	4
III	Core Lab 6: Programming Lab – VB & Oracle	6	3	40	60	100	4
III	Elective 1 &&	6	3	25	75	100	4
IV	Skill based Subject 3: &&	6	3	20	55	75	3
	<b>Semester VI</b>						
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 7: 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.**

**BHARATHIAR UNIVERSITY: COIMBATORE-641 046**  
**B.Sc. CS/IT/CT/SS/MM/CSA &BCA**  
(For the students admitted from the academic year **2016-2017** and onwards)  
**SCHEME OF EXAMINATION - CBCS PATTERN**

Course Subject	<b>B.Sc. COMPUTER SCIENCE</b>
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

Course Subject	<b>B.Sc. INFORMATION TECHNOLOGY</b>
Allied-1	Mathematical Structures for Computer Science
Allied-2	Discrete Mathematics
Allied-3	Microprocessor & ALP
Allied-4	Computer Networks



Elective- I	Soft Computing / Animation Techniques / Business Intelligence
Elective- II	Network Security and Administration/ Mobile Computing / Internet Programming
Elective- III	E-Learning / Component Technology / E-Commerce
Skill-1	Introduction to web design & Applications
Skill-2 (lab)	HTML, XML and JavaScript Lab
Skill-3	Dot Net Programming
Skill-4 (lab)	Dot Net Lab

Course Subject	<b>B.Sc. COMPUTER TECHNOLOGY</b>
Allied-1	Mathematical Structures for Computer Science
Allied-2	Discrete Mathematics
Allied-3	Microprocessor & ALP
Allied-4	TCP/IP Protocols
Elective- I	Mobile Computing / Distributed Computing / Digital Image processing
Elective- II	Middleware Technologies / Animation Techniques / Computer Installation & Servicing
Elective- III	Data Mining / Embedded Systems / Computer aided Design and Manufacturing
Skill-1	Data Communication & Networks
Skill-2 (lab)	Network Lab
Skill-3	Network Security & Management
Skill-4 (lab)	Network Security Lab

Course Subject	<b>B.Sc. SOFTWARE SYSTEMS</b>
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 Algorithms / Web Technology
Elective- II	Computer Networks / Software Quality Assurance / Management Information Systems
Elective- III	Wireless Mobile Communications / Component Technologies / Mastering LAN & Troubleshooting
Skill-1	WAP & XML
Skill-2 (lab)	XML Lab
Skill-3	ASP .NET
Skill-4 (lab)	ASP .NET Lab

Course Subject	<b>B.Sc. MULTIMEDIA &amp; WEB TECHNOLOGY</b>
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 Behaviour

Skill-1	Introduction to PHP Programming
Skill-2 (lab)	PHP Programming Lab
Skill-3	Animation Techniques
Skill-4 (lab)	Animation Lab - Flash

Course Subject	<b>B.Sc. COMPUTER SCIENCE &amp; APPLICATIONS</b>
Allied-1	Mathematical Structures for Computer Science
Allied-2	Discrete Mathematics
Allied-3	Management Information Systems
Allied-4	Organizational Behaviour
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 (lab)	PHP Programming Lab
Skill-3	Web designing with ASP and ASP .NET
Skill-4 (lab)	ASP Lab

Course Subject	<b>BCA</b>
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 / Dot Net programming / Distributed Computing
Elective- III	E-Commerce / Web Services / Software Testing
Skill-1	Web Programming
Skill-2 (lab)	Web Programming Lab
Skill-3	CASE Tools Concepts and Applications
Skill-4 (lab)	CASE Tools Lab

**BHARATHIAR UNIVERSITY, COIMBATORE.**

**M. Sc. COMPUTER SCIENCE (Affiliated Colleges)**  
(Effective for the candidates admitted from the academic Year 2015-2016)

**SCHEME OF EXAMINATIONS – CBCS PATTERN**

Sem.	Study Components	Course title	Ins. hrs/ week	Exam				Credit
				Dur.	CIA	Mark	Total Mark	
	<b>Semester I</b>							
	Paper I Analysis & Design of Algorithms		5	3	25	75	100	4
	Paper II Object Oriented Analysis and Design & C++		5	3	25	75	100	4
	Paper III Advanced Networks		5	3	25	75	100	4
	Paper IV Advanced Software Engineering		5	3	25	75	100	4
	Practical I Algorithm and OOPS Lab		5	3	40	60	100	4
	Practical II Software Testing Lab		5	3	40	60	100	4
II	Paper V Data Mining and Warehousing		4	3	25	75	100	4
	Paper VI Advanced Operating Systems		4	3	25	75	100	4
	Paper VII Internet and Java Programming		4	3	25	75	100	4
	PaperVIII Artificial Intelligence & Expert Systems		4	3	25	75	100	4
	Elective – I		4	3	25	75	100	4
	Practical III Advanced Concept of Internet & Java Programming Lab		5	3	40	60	100	4
	Practical IV Data Mining using R		5	3	40	60	100	4
III	Paper IX Digital Image Processing		4	3	25	75	100	4
	Paper X Advanced Tools in Computing		4	3	25	75	100	4
	Paper XI Network Security and Cryptography		4	3	25	75	100	4
	Paper XII Business Intelligence		4	3	25	75	100	4
	Elective – II		4	3	25	75	100	4
	Practical V Advanced Tools in Computing Lab		5	3	40	60	100	4
	Practical VI Digital Image processing using matlab		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

**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

**BHARATHIAR UNIVERSITY, COIMBATORE.**  
**MASTER OF COMPUTER APPLICATIONS (MCA) DEGREE COURSE**  
**(Affiliated Colleges - Effective from the Academic Year 2016-2017)**

**REVISED SCHEME OF EXAMINATIONS – CBCS PATTERN**

Semester	Study Components	Course title	Ins. hrs/ week	Examinations				Credit
				Dur.	CIA	Marks	Total Marks	
<b>I</b>	Paper I : Introduction to Information Technology		4	3	25	75	100	3
	Paper II : Computer Organization and Architecture		4	3	25	75	100	3
	Paper III : Problem Solving in C		4	3	25	75	100	4
	Paper IV : Accounting and Financial Management		4	3	25	75	100	3
	Paper V : Web Designing		4	3	25	75	100	4
	Practical I : Problem Solving using C Lab		5	3	40	60	100	4
	Practical II : Web Designing Lab		5	3	40	60	100	4
<b>II</b>	Paper VI : Data Structures		4	3	25	75	100	3
	Paper VII : Relational Database Management Systems		4	3	25	75	100	4
	Paper VIII : Operating Systems		4	3	25	75	100	3
	Paper IX : Object Oriented Analysis and Design & C++		4	3	25	75	100	4
	Paper X : Mathematical Foundations of Computer Science		4	3	25	75	100	3
	Practical III : Data Structures Lab Using C++		5	3	40	60	100	4
	Practical IV : RDBMS Lab		5	3	40	60	100	4
<b>III</b>	Paper XI : Visual Programming		4	3	25	75	100	4
	Paper XII : Java Programming		4	3	25	75	100	4
	Paper XIII : Analysis & Design of Information Systems		4	3	25	75	100	3
	Paper XIV: Computer Networks		4	3	25	75	100	3
	Paper XV : Operations Research		4	3	25	75	100	3
	Practical V : Visual Programming Lab		5	3	40	60	100	4
	Practical VI : Java Programming Lab		5	3	40	60	100	4

<b>IV</b>	Paper XVI : .NET Programming	4	3	25	75	100	4
	Paper XVII : Computer Graphics and Multimedia	4	3	25	75	100	4
	<b>Paper XVIII : Software Project Management</b>	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
<b>V</b>	Paper XXI : Software Testing	4	3	25	75	100	4
	Paper XXII : Network Security and Cryptography	4	3	25	75	100	3
	Paper XXIII : Data Mining and Warehousing	4	3	25	75	100	3
	Paper XXIV : 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	40	60	100	4
<b>VI</b>	Project work and Viva voce					200**	10
	<b>Total</b>					<b>3700</b>	<b>135</b>

\* 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 – II**

- E.2.1. Mobile computing
- E.2.2. Distributed Computing
- E.2.3. Cloud Computing

#### **ELECTIVE – III**

- E.3.1. Web Services
- E.3.2. Middleware Technologies
- E.3.3. Neural Networks
- E.3.4. Parallel Processing**

#### **ELECTIVE – IV**

- E.4.1. E-Commerce
- E.4.2. Embedded systems
- E.4.3. Information Retrieval Techniques
- E.4.4. Big Data Analysis**

- Note : 1. In semester IV Paper XVIII Software Engineering is replaced by Software Project Management
2. One more elective is included in Elective III Parallel Processing and Elective IV Big Data Analysis
3. The syllabi of the above papers are furnished below be followed and the syllabi of remaining papers be the same as prescribed for the academic year 2014-15.

**BHARATHIAR UNIVERSITY (CBCS PATTERN)**

**B. Sc. BIOCHEMISTRY DEGREE COURSE**

**For the students admitted during the academic year 2016– 2017 batch 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 Paper I - Biomolecules		3	3	25	75	100	4
	Core Paper II - Cell Biology		3	3	25	75	100	4
	Core Biochemistry Practical – I		2	-	-	-	-	-
	Allied A : Paper I – Chemistry		6	3	20	55	75	4
	Allied Chemistry Practicals		2	3	-	-	-	-
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 Paper III - Biomedical Instrumentations		5	3	25	75	100	4
	Core Biochemistry Practical – I		3	3	40	60	100	4
	Allied A : Paper II - Chemistry		6	3	20	55	75	3
	Allied Practical – Chemistry		2	3	20	30	50	2
IV	Value Education – Human Rights #		2	3	-	50	50	2
	<b>Semester III</b>							
I	Language – III		6	3	25	75	100	4
II	English – III		6	3	25	75	100	4
III	Core Paper IV - Enzyme and Enzyme Technology		3	3	25	75	100	4
	Core Paper V – Microbiology		3	3	25	75	100	4
	Core Biochemistry Practical - II		2	-	-	-	-	-
	Allied B: Paper I – Basic Mathematics		6	3	20	55	75	3
IV	Skill based Subject I - Bioinformatics		2	3	20	55	75	3
	Tamil @ / Advanced Tamil# (OR) Non-major elective - I (Yoga for Human Excellence)# / Women’s Rights#		2	3	50		50	2
	<b>Semester IV</b>							
I	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



	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
	<b>Semester V</b>						
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
	<b>Semester VI</b>						
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 Elective papers (Colleges can choose any one of the papers as electives)		
Elective - I	A	Immunology and Immunotechniques
	B	Introduction to Biomaterials
	C	Nutritional Biochemistry
Elective - II	A	Plant and Animal Biotechnology
	B	Nanomaterials and Nanomedicine
	C	Health and Hygiene
Elective - III	A	Diagnostic Biochemistry
	B	Sports Biochemistry
	C	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.

**BHARATHIAR UNIVERSITY, COIMBATORE.**

**M. Sc., BIOCHEMISTRY DEGREE COURSE**  
**(AFFILIATED COLLEGES)(REVISED)**  
 (Effective from the academic Year 2016-2017)

**SCHEME OF EXAMINATIONS – CBCS PATTERN**

SEM	Subject and Paper	Inst. Hrs/ week	Examinations				Credit
			Dur.	CIA	Mark	Total Mark	
I	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 Regulation	4	3	25	75	100	4
	Paper-XII Genetic Engineering	5	3	25	75	100	4
	Paper-XIII Endocrinology	4	3	25	75	100	4
	Paper-XIV Pharmaceutical Chemistry and Neurochemistry	5	3	25	75	100	4
	Practical –II Core Biochemistry Practical-II	4	-	-	-	-	-
	Elective – Paper III	3	3	25	75	100	4
IV	Practical-II Core Biochemistry Practical-II	5	6	40	60	100	4
	Project Work	20	6	100	150	250*	10
	Elective – Practical/ Project	5	6	40	60	100*	4
	<b>Total</b>					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 papers respectively.

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

Paper / Sem	GROUP A Elective - Cell Culture and Molecular Techniques	GROUP B Elective - Computational Molecular Biology	GROUP C Elective – Nanoscience
I	Plant Tissue Culture	Computational Molecular Biology	Fundamentals of Nanoscale Science
II	Animal Tissue Culture	Genomics	Nanomaterials Synthesis
III	Methods in Molecular Biology	Proteomics	Characterization and Application of Nano Materials
IV	Elective Practical	Elective Practical	Elective Project work

**Note : The syllabus for the following papers furnished below be followed and there is no change in the existing scheme of examination and syllabi of remaining papers.**

**Semester I Paper IV – Cellular Biochemistry, Semester III Paper X - Biostatistics and Research Methodology and Paper XIV – Pharmaceutical Chemistry and Neurochemistry .**

**BHARATHIAR UNIVERSITY, COIMBATORE:641 046**  
**B.Sc. MICROBIOLOGY DEGREE COURSE**  
**SCHEME OF EXAMINATION (revised) CBCS PATTERN**  
**(AFFILIATED COLLEGES)**

(For the students admitted from the academic year 2016 – 2017 batch onwards)

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
II	Core Paper I - Fundamentals of Microbiology		6	3	25	75	100	4
	Practical I and Viva Voce		4	-	-	-	-	-
	Allied A : Paper I – Biostatistics and Computer Applications I		4	3	20	55	75	3
	Allied Practical		2	-	-	-	-	-
IV	Environmental Studies #		2	-	-	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 Paper II - Bioinstrumentation – Principles and Applications		4	3	25	75	100	4
	Core Paper III - General Biology		3	3	25	75	100	4
	Core Practical I and Viva Voce		3	3	30	45	75	3
	Allied A : Paper II - Biostatistics and Computer Applications II		4	3	20	55	75	3
	Allied Practical		2	3	20	30	50	2
IV	Value Education – Human Rights #		2	3	-	50	50	2
	<b>Semester III</b>							
I	Language – III		6	3	25	75	100	4
II	English – III		6	3	25	75	100	4
III	Core Paper IV - Microbial Diversity		3	3	25	75	100	4
	Core Practical II		4	-	-	-	-	-
	Allied B: Paper I – Biochemistry I/Zoology I		4	-	20	55	75	3
	Allied Practical		2	-	-	-	-	-
IV	Skill based Subject I – Medical Laboratory Technology – Clinical Laboratory Technology		3	3	20	55	75	3
	Tamil @ / Advanced Tamil# (OR) Non-major elective - I (Yoga for Human Excellence) # / Women’s Rights #		2	3	50		50	2

	<b>Semester IV</b>						
I	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/Zoology 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 (Bacteriology and Serology)	3	3	20	55	75	3
	Tamil @ /Advanced Tamil # (OR) Non-major elective -II (General Awareness #)	2	3	50		50	2
	<b>Semester V</b>						
III	Core Paper VI - Microbial Genetics	5	3	25	75	100	4
	Core Paper VII – Principles of Immunology	5	3	25	75	100	4
	Core Paper VIII– Food Microbiology	4	3	25	75	100	4
	<b>Core Paper IX–Medical Microbiology</b>	4	3	25	75	100	4
	Elective 1	4	3	25	75	100	4
	Core Practical – III	5	3	-	-	-	-
IV	Skill based Subject 3 – Medical Laboratory Technology – Diagnostic Microbiology II (Virology and Mycology, Parasitology)	3	3	20	55	75	3
	<b>Semester VI</b>						
III	Core Paper X – Industrial Microbiology	4	3	25	75	100	4
	Core Paper XI – Environmental and Agricultural Microbiology	4	3	25	75	100	4
	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 of Elective papers (Colleges can choose any one of the paper as electives)		
Elective – I	<b>A</b>	Recombinant DNA Technology - I
	<b>B</b>	Applied Plant Biology
	<b>C</b>	Entomology
Elective – II	<b>A</b>	Recombinant DNA Technology – II
	<b>B</b>	Enterpreneurial Microbiology
	<b>C</b>	Bio-Molecules
Elective - III	<b>A</b>	Bionanotechnology
	<b>B</b>	Dairy Microbiology
	<b>C</b>	Medical Biochemistry

**Note: In semester V the title of the Core paper IX Recombinant DNA Technology has been changed as medical Microbiology.**

**BHARATHIAR UNIVERSITY, COIMBATORE: 641 046**

**M.Sc. MICROBIOLOGY DEGREE COURSE**

**SCHEME OF EXAMINATION (CBCS PATTERN)**

**(Affiliated Colleges) (Revised)**

**(For the students admitted during the academic year 2016-2017 Batch& onwards)**

Study Components	Course Title	Inst Hrs/ Week	Exam	Max Marks			Credit
			Dur(hrs )	CIA	Univ exam	Total	
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
Third Semester							
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	9	40	60	100	4

Practical	Practical III	5	-	-	-	-	-
<b>Semester IV</b>							
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
<b>TOTAL</b>						<b>2250</b>	<b>90</b>

\* 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)**

	<b>GROUP A</b>	<b>GROUP B</b>	<b>GROUP C</b>
Paper I/Sem I	Principles of Quality Assurance	Environment and Health	Basic Biological Sciences
Paper II/Sem II	Quality Assessment in Pharmaceuticals	Communicable and Noncommunicable diseases	Biophysics and Biochemistry
Paper III/Sem IV	Total Quality Management (TQM)	Health care of the community	Molecular Cytology and Tissue 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 2016-17 and onwards)

**SCHEME OF EXAMINATIONS – CBCS Pattern**  
**B.B.A (Bachelor of Business Administration)**

Part	Study Components	Course Title	Ins. Hrs / Week	Examinations				Credits
				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 I – Principles of Management		5	3	25	75	100	4
III	Core II –Basics of Business and Business Environment		5	3	20	55	75	3
III	Allied Paper I – Mathematics for Management-I		6	3	25	75	100	4
IV	Environmental Studies #		2	-	-	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 III – Organisational Behaviour		5	3	20	55	75	3
III	Core IV – Economics for Executives		6	3	25	75	100	4
III	Allied Paper II – Mathematics for Management-II		5	3	25	75	100	4
IV	Value Education – Human Rights #		2	-	-	50	50	2
	<b>SEMESTER –III</b>							
III	Core V – Financial Accounting		5	3	25	75	100	4
III	Core VI – Production and Material Management		5	3	25	75	100	4
III	Core VII – Marketing Management		5	3	25	75	100	4
III	Core VIII - PC Software (MS Office ) – Practical		5	3	30	45	75	3
III	Allied : III – Business Law		5	3	25	75	100	4
IV	Skill based Subject-1 : Communication Skills I ^		3	3	30	45	75	3
IV	Tamil @ /Advanced Tamil # (or) Non-major elective-I Yoga for Human Excellence # / Women’s Rights # Constitution of India #		2	-	50		50	2
	<b>SEMESTER –IV</b>							
III	Core IX - Human Resource Management		5	3	25	75	100	4
III	Core X – Financial Management		5	3	25	75	100	4
III	Core XI – Financial Accounting Package – Tally (Practical only)		5	3	30	45	75	3
III	Core XII –Management Information System		5	3	25	75	100	4
III	Allied : IV– Taxation Law and Practice		5	3	25	75	100	4
IV	Skill based Subject-2 : Communication Skills II ^		3	3	30	45	75	3
IV	Tamil @ / Advanced Tamil # (or) Non-major elective-II : General Awareness #		2	-	50		50	2

**B.B.A (Bachelor of Business Administration)**

	<b>SEMESTER –V</b>						
III	Core XIII – Cost & Management Accounting	6	3	25	75	100	4
III	Core XIV – Research Methods for Management	5	3	25	75	100	4
III	Core XV - Advertising and Sales Promotion	5	3	25	75	100	4
III	Core XVI – Insurance Principles and Practice	6	3	25	75	100	4
III	Skill Enhancer: Institutional Training *	-	-	50	-	50	2
III	Elective –I :	5	3	25	75	100	4
IV	Skill based Subject –3 : Campus to Corporate ^	3	3	30	45	75	3
	<b>SEMESTER –VI</b>						
III	Core XVII – Entrepreneurship and Small Business 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	3	30	45	75	3
V	Extension Activities @	-	-	50	-	50	2
	<b>TOTAL</b>	-	-	-	-	<b>3500</b>	<b>140</b>

^ Refer the detailed note on this curricular aspect

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

\* No University Examination – Refer the detailed note on this curricular component.

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

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

Part	Study Components	Course Title	Ins. Hrs / Week	Examination				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 I – Principles of Management		5	3	25	75	100	4
III	Core II – Basics of Business and Business Environment		5	3	20	55	75	3
III	Allied Paper I : Mathematics for Management –I		6	3	25	75	100	4
IV	Environmental Studies #		2	-	-	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 III – Organisational Behaviour		5	3	20	55	75	3
III	Core IV – Economics for Executives		6	3	25	75	100	4
III	Allied Paper II : Mathematics for Management –II		5	3	25	75	100	4
IV	Value Education – Human Rights #		2	-	-	50	50	2
	SEMESTER –III							
III	Core V – Financial Accounting		5	3	25	75	100	4
III	Core VI – Production and Materials Management		5	3	25	75	100	4
III	Core VII – Marketing Management		5	3	25	75	100	4
III	Core VIII: PC Software (MS Office) - Practical		5	3	30	45	75	3
III	Allied Paper III– Business Law		5	3	25	75	100	4
IV	Skill based Subject -1 : Communication Skills I ^		3	3	30	45	75	3
IV	Tamil @ /Advanced Tamil # (or) Non-major elective-I : Yoga for Human Excellence # / Women’s Rights # Constitution of India #		2	3	50		50	2
	SEMESTER –IV							
III	Core IX – Human Resource Management		5	3	25	75	100	4
III	Core X – Financial Management		5	3	25	75	100	4
III	Core XI: Financial Accounting Package -Tally (Practical only)		5	3	30	45	75	3
III	Core XII – Management Information System		5	3	25	75	100	4
III	Allied Paper IV– Taxation Law and Practice		5	3	25	75	100	4
IV	Skill based Subject -2 : Communication Skills II ^		3	3	30	45	75	3
IV	Tamil @ / Advanced Tamil # (or) Non-major elective -II : General Awareness #		2	3	50		50	2

**B.B.A – C.A (Computer Applications)**

	<b>SEMESTER –V</b>						
III	Core XIII – Cost & Management Accounting	6	3	25	75	100	4
III	Core XIV – Research Methods for Management	5	3	25	75	100	4
III	Core XV– Advertising and Sales Promotion	5	3	25	75	100	4
III	Core XVI – Internet and Web Page Design (Theory)	3	3	10	40	50	2
III	Core XVII – Internet Web Page Design Programming Laboratory ( Practical)	3	3	20	30	50	2
III	Skill Enhancer: Institutional Training *	-	-	50	-	50	2
III	Elective –I :	5	3	25	75	100	4
IV	Skill based Subject -3 : Campus to Corporate ^	3	3	30	45	75	3
	<b>SEMESTER –VI</b>						
III	Core XVIII –Entrepreneurship &  Small Business Management	6	3	25	75	100	4
III	Core XIX –RDBMS & Oracle Programming	3	3	10	40	50	2
III	Core XX –RDBMS & Oracle Programming - Practical	3	3	20	30	50	2
III	Core XXI – 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	3	30	45	75	3
V	Extension Activities @	-	-	50	-	50	2
	<b>TOTAL</b>	-	-	-	-	<b>3500</b>	<b>140</b>

^ Refer the detailed note on this curricular aspect

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

\* No University Examination – Refer the detailed note on this curricular component.

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

<b>List of Elective papers (Colleges can choose any one of the paper as electives)</b>		
Elective – I	<b>A</b>	Insurance Principles and Practice
	<b>B</b>	Modern Office Management
	<b>C</b>	Software Design Technique
	<b>D</b>	Introduction to ERP
Elective – II	<b>A</b>	Strategic Management
	<b>B</b>	Industrial Relations and Labour Laws
	<b>C</b>	Systems Analysis and Design
	<b>D</b>	Visual Basic Theory
Elective - III	<b>A</b>	E - Commerce
	<b>B</b>	Project Work & Viva-Voce
	<b>C</b>	Financial Services
	<b>D</b>	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 )