	B. Com. : Three-Year (6-Semester) CBCS					
	Programme					
	Basic Structu	re: Distribution of Courses				
1	Ability-Enhancement	2 Papers of 4 Credit Hrs. each (Total	8			
	Compulsory Course (AECC)	Credit Hrs. 4X2)				
2	Skill-Enhancement Elective	4 Papers of 4 Credit Hrs. each (Total	16			
	Course (SEC)	Credit Hrs. 4X4)				
3	Core Course	12 Papers of 6 Credit Hrs. each (Total Credit Hrs. 12X6)	72			
		(5 Lectures and 1 Tutorial)				
4	Discipline Specific Elective (DSE)	4 Papers of 6 Credit Hrs. each (Total Credit Hrs. 3X6) (5 Lectures and 1 Tutorial)	24			
5	Generic Elective (GE)	2 Papers of 6 Credit Hrs. each (Total Credit Hrs. 3X6) (5 Lectures and 1 Tutorial)	12			
	Total Credit Hours		132			

Notes:

1 Ideal Lecture Class size: 50 to 60 students

2 Ideal Tutorial group Size: 12 to 15 students

3 Ideal Laboratory Practical Batch Size: 20 Students

B. Com. : Three-Year (6-Semester) CBCS Programme Structure

Course No.	Course Title	Course Type
	Semester I	
BC 1.1	Environmental Studies	Ability-Enhancement
		Compulsory Course (AECC)-1
BC 1.2	Financial Accounting	Core Course C-1
BC 1.3	Business Organisation and Management	Core Course C-2
ENGL 101	English – 1 Core English (Compulsory for B.A./B.Com)	Core Course C-3
	Semester II	
BC 2.1	Language: Hindi/Modern Indian Language	Ability-Enhancement Compulsory Course (AECC)-2
BC 2.2	Business Law	Core Course C-4
BC 2.3	Business Mathematics and Statistics	Core Course C-5
HIND200	Hindi	Core Course C-6
	Semester III	
BC 3.1	Company Law	Core Course C-7
BC 3.2	Income Tax Law and Practice	Core Course C-8
	English	Core Course C-9
BC 3.4	Computer Applications in Business	Skill-Enhancement Elective Course (SEC)-1
	Semester IV	

HIND 400	Hindi	Core CourseC-10
BC 4.2	Corporate Accounting	Core Course C-11
BC 4.3	Cost Accounting	Core Course C-12
BC 4.4	E-Commerce	Skill-Enhancement Elective Course (SEC)-2
	Semester V	
BC 5.1	Any one of the following	Discipline Specific Elective (DSE)-1
	a. Human Resource Management	
	b. Principles of Marketing	
	c. Auditing and Corporate Governance	
BC 5.2	Any one of the following	Discipline-Specific Elective (DSE)-2
	a. Fundamentals of Financial Management	
	b. Indirect Tax Law	
BC 5.3	Entrepreneurship	Skill-Enhancement Elective Course (SEC)-3
BC 5.4	Principles of Micro Economics	Generic Elective (GE)-1
	Semester VI	
BC 6.1	Any one of the following Discipline-	Specific Elective (DSE)-3
	a. Corporate Tax Planning	
	b. Banking and Insurance	
	c. Management Accounting	
	d. Computerised Accounting System	
BC 6.2	Any one of the following Discipline-	Specific Elective (DSE)-4
	a. International Business	
	b. Office Management and Secretarial Practice	
	1	

	c. Fundamentals of Investment	
	d. Consumer Protection	
BC 6.3	Personal Selling and Salesmanship	Skill-Enhancement Elective Course (SEC)-4
BC6.4	Indian Economy	Generic Elective (GE)-2

Note:

1. For Practical Lab based papers:

- a. Core Course papers BC 1.2 (Financial Accounting) and BC 3.2 (Income-tax law and Practice), there shall be 4 Credit Hrs. for Lectures + one credit hr. (Two Practical Periods per week per batch) for Practical Lab + one credit Hr for Tutorials (per group)
- b. Discipline Specific Elective paper 6.1(d) (Computerised Accounting System), there shall be 4 Credit Hrs. for Lectures + Two Credit hrs. (4 Practical Periods per week per batch) for Practical Lab
- c. Skill Enhancement Elective Course SEC-2 paper BC 4.4 (E-Commerce), there shall be 3 Credit Hrs. for Lectures + One Credit hrs. (2 Practical Periods per week per batch) for Practical Lab
- d. Skill Enhancement Elective Course SEC-2 paper BC 3.4 (Computer Applications in Business), there shall be 2 Credit Hrs. for Lectures + Two Credit hrs. (4 Practical Periods per week per batch) for Practical Lab
- 2. For other core and elective papers, there shall be Five lectures and One Tutorial (per batch)

B.Com.: Semester I

Ability-Enhancement Compulsory Course (AECC)-1

BC 1.1: Environmental Studies

Common Syllabus to be provided by the respective Department

B.Com: Semester I Paper BC 1.2: FINANCIAL ACCOUNTING

Duration: 3 hrs.

Marks: 50

Lectures: 52, Practical: 26

Objectives: The objective of this paper is to help students to acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions. **CONTENTS**

UNIT	ΤΟΡΙϹ	DETAILS			
1	(a). Theoretical	i. Accounting as an information system, the users of financial			
	Framework	accounting information and their needs. Qualitative characteristics			
		of accounting, information. Functions, advantages and limitations of			
		accounting. Branches of accounting. Bases of accounting; cash basis			
		and accrual basis.			
		ii. The nature of financial accounting principles – Basic concepts and			
		conventions: entity, money measurement, going concern, cost,			
		realization, accruals, periodicity, consistency, prudence			
		(conservatism), materiality and full disclosures.			
		iii. Financial accounting standards: Concept, benefits, procedure for			
		issuing accounting standards in India. Salient features of First-			
		Time Adoption of Indian Accounting Standard (Ind-AS) 101.			
		International Financial Reporting Standards (IFRS): - Need and			
		procedures.			
		From recording of a business transaction to proparation of trial			
	(b). Accounting	From recording of a business transaction to preparation of trial			
	Process	balance.			
2	(a). Business Income	i. Measurement of business income-Net income: the accounting			
		period, the continuity doctrine and matching concept. Objectives of			
		measurement.			
		ii. Revenue recognition: Recognition of expenses.			
		iii. The nature of depreciation. The accounting concept of			
		depreciation. Factors in the measurement of depreciation. Methods of			
		computing depreciation: straight line method and diminishing balance			

		· · · · · · · · · · · · · · · · · · ·	
		method; Disposal of depreciable assets-change of method.	
		iv. Inventories: Meaning. Significance of inventory valuation. Inventory	
		Record Systems: periodic and perpetual. Methods: FIFO, LIFO and	
		Weighted Average. Salient features of Indian Accounting Standard	
		(IND-AS): 2 (Theory only)	
	(b). Final Accounts	Capital and revenue expenditures and receipts: general introduction	
		only. Preparation of financial statements of non-corporate business	
		entities	
3	Accounting for Hire-	i) Accounting for Hire-Purchase Transactions, Journal entries and	
	Purchase and	ledger accounts in the books of Hire Vendors and Hire purchaser for	
	Installment Systems,	large value items including Default and repossession.	
	Consignment, and	ii) Consignment: Features, Accounting treatment in the books of the	
	Joint Venture	consignor and consignee.	
		iii) Joint Venture: Accounting procedures: Joint Bank Account, Records	
		Maintained by Coventurer of (a) all transactions (b) only his own	
		transactions. (Memorandum joint venture account).	
4	Accounting for Inland	Accounting for Inland Branches	
	Branches and	Concept of dependent branches; accounting aspects; debtors system,	
	Accounting for	stock and debtors system, branch final accounts system and whole	
	Dissolution of	sale basis system. Independent branches: concept accounting	
	Dissolution of Partnership Firm	sale basis system. Independent branches: concept accounting treatment: important adjustment entries and preparation of	
		treatment: important adjustment entries and preparation of	
		treatment: important adjustment entries and preparation of consolidated profit and loss account and balance sheet.	
		treatment: important adjustment entries and preparation of consolidated profit and loss account and balance sheet. Accounting for Dissolution of Partnership Firm	
		treatment: important adjustment entries and preparation of consolidated profit and loss account and balance sheet. Accounting for Dissolution of Partnership Firm Accounting of Dissolution of the Partnership Firm Including Insolvency	
Practical		treatment: important adjustment entries and preparation of consolidated profit and loss account and balance sheet. Accounting for Dissolution of Partnership Firm Accounting of Dissolution of the Partnership Firm Including Insolvency	
Practical	Partnership Firm	treatment: important adjustment entries and preparation of consolidated profit and loss account and balance sheet. Accounting for Dissolution of Partnership Firm Accounting of Dissolution of the Partnership Firm Including Insolvency of partners, sale to a limited company and piecemeal distribution	
Practical	Partnership Firm Computerised	treatment: important adjustment entries and preparation of consolidated profit and loss account and balance sheet. Accounting for Dissolution of Partnership Firm Accounting of Dissolution of the Partnership Firm Including Insolvency of partners, sale to a limited company and piecemeal distribution Computerised Accounting Systems: Computerized Accounts by using	
Practical	Partnership Firm Computerised	treatment: important adjustment entries and preparation of consolidated profit and loss account and balance sheet. Accounting for Dissolution of Partnership Firm Accounting of Dissolution of the Partnership Firm Including Insolvency of partners, sale to a limited company and piecemeal distribution Computerised Accounting Systems: Computerized Accounts by using any popular accounting software: Creating a Company; Configure and	
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Practical	Partnership Firm Computerised	treatment: important adjustment entries and preparation of consolidated profit and loss account and balance sheet. Accounting for Dissolution of Partnership Firm Accounting of Dissolution of the Partnership Firm Including Insolvency of partners, sale to a limited company and piecemeal distribution Computerised Accounting Systems: Computerized Accounts by using any popular accounting software: Creating a Company; Configure and Features settings; Creating Accounting Ledgers and Groups; Creating Stock Items and Groups; Vouchers Entry; Generating Reports – Cash	

Note:

1. The relevant Indian Accounting Standards in line with the IFRS for all the above topics should be covered.

2. Any revision of relevant Indian Accounting Standard would become applicable immediately.

3. Examination Scheme for Computerised Accounts – Practical for **20** marks. The practical examination will be for **1** hour.

4. Theory Exam shall carry 50 marks

5. Marks for CCA (Continuous Comprehensive Assessment) shall be 30 marks

1. Robert N Anthony, David Hawkins, Kenneth A. Merchant, *Accounting: Text and Cases*. McGraw-Hill Education, 13th Ed. 2013.

2. Charles T. Horngren and Donna Philbrick, *Introduction to Financial Accounting*, Pearson Education.

3. J.R. Monga, Financial Accounting: Concepts and Applications. Mayur Paper Backs, New Delhi.

4. M.C.Shukla, T.S. Grewal and S.C.Gupta. Advanced Accounts. Vol.-I. S. Chand & Co., New Delhi.

5. S.N. Maheshwari, and. S. K. Maheshwari. *Financial Accounting*. Vikas Publishing House, New Delhi.

6. Deepak Sehgal. Financial Accounting. Vikas Publishing H House, New Delhi.

7. Bhushan Kumar Goyal and HN Tiwari, Financial Accounting, International Book House

8. Goldwin, Alderman and Sanyal, Financial Accounting, Cengage Learning.

9. Tulsian, P.C. Financial Accounting, Pearson Education.

10. *Compendium of Statements and Standards of Accounting*. The Institute of Chartered Accountants of India, New Delhi.

11. Jain SP and Narang KL Financial Accounting, Kalyani Publishers Ludhiana(Pb)

12. . R S Singal, Vijender Kanwar, "Financial Acounting", V. K. Global Publications Pvt. Ltd.

Note: Latest edition of the text books should be used.

ANNEXURE- I

CCA Scheme- Students enrolled for the Academic session 2016-17 onwards CCA will account 30% of total marks i.e. 100, which a student will get in a course. The breakup of 30% i.e. 30 marks is given

1.	One minor test	15 marks
2.	Assignments/ seminars/ class test/ tutorials/ quiz	10 marks
3.	Attendance	5 marks

It is approved that a student will have to pass both the components i.e. CCA and ESE separately to become eligible to be declared successful for the course.

Distribution of marks for CCA in Each course in each semester

1.	Minor test	15 marks
2.	Tutorial/ Home Assignment	10 marks
3.	Attendance	5 marks

Total = 30 marks

Continuous Comprehensive Assessment (CCA) pattern: instruments for conducting Minor Test and Evaluation of Tutorial/ Home Assignments/ seminars/ quiz/ etc.

Minor	Class test/ tutorials/ assignment/ seminar	Attendance	Total marks
test	presentation		
(Marks)			
15	10	5	30

Time allowed for conducting Minor Test will be 1.3 hours

(A)* Mode of conducting Minor Test (15 Marks). Minor Test will be conducted after the completion of 48 teaching days (8 weeks)

Three types of questions will be set in Minor Test:-

- 1. 5MCQ (Choice: 1 out of 4) True/ False type of questions of 1 marks each= 5 marks
- 2. Two questions of short answer type in about 150 words each of 2.5 marks= 5 marks
- 3. One question of about 500 words, carrying 5 marks = 5 marks

Marks (Minor Test) = (1+2+3) = (5+5+5) = 15 marks

Total of Minor Test= 15

(B) Distribution of marks for evaluation of Tutorial/ Home Assignment etc.:-

- 1. 5 marks are assignment for the quality of contents and structure of the assignment
- 2. 5 marks are assigned for the clarity of language of the spirit (Hindi/ English) and its presentation in the class room.

Total marks 5+5 =10 marks

(C) Attendance = 5 marks

Note: Paper setting Scheme for End Semester Examination (50 marks)

Part	Section	No. Of	Syllabus	Nature of	Question	Marks	Max.
		Questions	Coverage	Q &	to be		Marks
				Answers	attempted		
A	1	8	Complete	Objective (MCQ)	8	1 each	8
	2	5	Complete	Short answer about 50 words	5	2 each	10
В	-	2	Unit- I		1	8	8
С	-	2	Unit- II		1	8	8
D	-	2	Unit- III		1	8	8
E	-	2	Unit- IV		1	8	8
Sub Total							50
Practical Examination				20			

Note: In numerical papers, there should be preferably 50 percent numerical questions in each unit.

B.Com.: Semester I

Paper BC 1.3: BUSINESS ORGANISATION AND MANAGEMENT

Duration: 3 hrs.

Marks: 70

Lectures: 65

Objective: The course aims to provide basic knowledge to the students about the organisation and management of a business enterprise.

Contents

UNIT	ΤΟΡΙϹ	DETAILS			
1	Foundation of	Manufacturing and service sectors; Small and medium enterprises;			
	Indian Business	Problems and government policy. India's experience of liberalisation			
	and Business	and globalisation. Technological innovations and skill development.			
	Enterprises	'Make in India' Movement. Corporate Social responsibility and ethics			
		Emerging opportunities in business; Franchising, Outsourcing, and E-			
		commerce.			
		Forms of Business Organisation: Sole Proprietorship, Joint Hindu			
		Family Firm, Partnership firm, Joint Stock Company, Cooperative			
		society; Limited Liability Partnership; Choice of Form of			
		Organisation. Government - Business Interface; Rationale and Forms			
		of Public Enterprises. International Business. Multinational			
		Corporations.			
2	Management and	The Process of Management: Planning; Decision-making; Strategy			
	Organisation	Formulation. Indian Philosophy of Management: The Gita and			
		Management, Gandhian Philosophy.			
		Organizing: Basic Considerations; Departmentation – Functional,			
		Project, Matrix and Network; Delegation and Decentralisation of			
		Authority; Groups and Teams.			
3	Leadership,	Leadership: Concept and Styles; Trait and Situational Theory of			
	Motivation and	Leadership.			
	Control	Motivation: Concept and Importance; Maslow Need Hierarchy			
		Theory; Herzberg Two Factors Theory. Communication: Process and			
		Barriers; Control: Concept and Process.			

4	Functional Areas of	Marketing Management: Marketing Concept; Marketing Mix;	
	Management	Product Life Cycle; Pricing Policies and Practices Financial	
		Management: Concept and Objectives; Sources of Funds – Equity	
		Shares, Debentures, Venture Capital and Lease Finance. Securities	
		Market, Role of SEBI. Human Resource Management: Concept and	
		Functions; Basic Dynamics of Employer – Employee Relations.	

1. Kaul, V.K., Business Organisation and Management, Pearson Education, New Delhi

2. Chhabra, T.N., Business Organisation and Management, Sun India Publications, New Delhi,

3. Gupta CB, Modern Business Organisation, Mayur Paperbacks, New Delhi

4. Koontz and Weihrich, *Essentials of Management*, McGraw Hill Education.

5. Basu, C. R., Business Organization and Management, McGraw Hill Education.

6. Jim, Barry, John Chandler, Heather Clark; Organisation and Management, Cengage Learning.

7. B.P. Singh and A.K.Singh, Essentials of Management, Excel Books

8. Buskirk, R.H., et al; *Concepts of Business: An Introduction to Business System*, Dryden Press, New York.

9. Burton Gene and Manab Thakur; Management Today: Principles and Practice; Tata McGraw Hill, New Delhi.

10. Griffin, Management Principles and Application, Cengage Learning

11. Sharma RK, Gupta SK and Chandel Kulbhushan, Business Organisation and Management Kalyani Publishers Ludhiana(Pb)

(Note: Latest Editions of the above books may be used.)

ANNEXURE- I

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4.	One minor test	15 marks
5.	Assignments/ seminars/ class test/ tutorials/ quiz	10 marks
6.	Attendance	5 marks

It is approved that a student will have to pass both the components i.e. CCA and ESE separately to become eligible to be declared successful for the course.

Distribution of marks for CCA in Each course in each semester

4.	Minor test	15 marks
5.	Tutorial/ Home Assignment	10 marks
6.	Attendance	5 marks

Total = 30 marks

Continuous Comprehensive Assessment (CCA) pattern: instruments for conducting Minor Test and Evaluation of Tutorial/ Home Assignments/ seminars/ quiz/ etc.

Minor	Class test/ tutorials/ assignment/ seminar	Attendance	Total marks
test	presentation		
(Marks)			
15	10	5	30

Time allowed for conducting Minor Test will be 1.3 hours

(A)* Mode of conducting Minor Test (15 Marks). Minor Test will be conducted after the completion of 48 teaching days (8 weeks)

Three types of questions will be set in Minor Test:-

- 4. 5MCQ (Choice: 1 out of 4) True/ False type of questions of 1 marks each= 5 marks
- 5. Two questions of short answer type in about 150 words each of 2.5 marks= 5 marks
- 6. One question of about 500 words, carrying 5 marks = 5 marks

Marks (Minor Test) = (1+2+3) = (5+5+5) = 15 marks

Total of Minor Test= 15

(B) Distribution of marks for evaluation of Tutorial/ Home Assignment etc.:-

- 3. 5 marks are assignment for the quality of contents and structure of the assignment
- 4. 5 marks are assigned for the clarity of language of the spirit (Hindi/ English) and its presentation in the class room.

Total marks 5+5 =10 marks

(C) Attendance = 5 marks

Note: Paper setting Scheme for End Semester Examination (70 marks)

Part	Section	No. Of	Syllabus Coverage	Nature of Q & Answers	Question to be attempted	Marks	Max. Marks
A	1	10	Complete	Objective (MCQ)	10	1 each	10
	2	8	Complete	Short answer 100-150 words	5	4 each	20
В	-	2	Unit- I		1	10	10
С	-	2	Unit- II		1	10	10

D	-	2	Unit- III	1	10	10
E	-	2	Unit- IV	1	10	10
Total						70

B.Com.: Semester II

Ability-Enhancement Compulsory Course (AECC)-2

BC 2.1: Language: English/Hindi/Modern Indian Language

Common Syllabus to be provided by the respective Department

B.Com.: Semester II

Paper- BC 2.2: BUSINESS LAW

Duration: 3 hrs. Marks: 70

Lectures: 65

Objective: The objective of the course is to impart basic knowledge of the important business legislation along with relevant case law.

Contents:

UNIT	ΤΟΡΙϹ	DETAILS
1	The Indian	a) Contract – meaning, characteristics and kinds
	Contract Act,	b) Essentials of a valid contract - Offer and acceptance, consideration,
	1872: General	contractual capacity, free consent, legality of objects.
	Principles of	c) Void agreements
	Contract	d) Discharge of a contract – modes of discharge, breach and remedies
		against breach of contract.
		e) Contingent contracts
		f) Quasi - contracts
2	The Indian	a) Contract of Indemnity and Guarantee
	Contract Act,	b) Contract of Bailment
	1872: Specific	c) Contract of Agency
	Contracts	
3	The Sale of	The Sale of Goods Act, 1930
	Goods Act, 1930	a) Contract of sale, meaning and difference between sale and
	and The	agreement to sell.
	Negotiable	b) Conditions and warranties
	Instruments Act	c) Transfer of ownership in goods including sale by a non-owner
	1881	d) Performance of contract of sale
		e) Unpaid seller – meaning, rights of an unpaid seller against the
		goods and the buyer.
		The Negotiable Instruments Act 1881
		a) Meaning, Characteristics, and Types of Negotiable Instruments :
		Promissory Note, Bill of Exchange, Cheque
		b) Holder and Holder in Due Course, Privileges of Holder in Due
		Course.
		c) Negotiation: Types of Endorsements
		d) Crossing of Cheque

		e) Bouncing of Cheque	
4	Partnership Laws	A) The Partnership Act, 1932	
		a. Nature and Characteristics of Partnership	
		b. Registration of a Partnership Firms	
		c. Types of Partners	
		d. Rights and Duties of Partners	
		e. Implied Authority of a Partner	
		f. Incoming and outgoing Partners	
		g. Mode of Dissolution of Partnership	
		B) The Limited Liability Partnership Act, 2008	
		a) Salient Features of LLP	
		b) Differences between LLP and Partnership, LLP and Company	
		c) LLP Agreement,	
		d) Partners and Designated Partners	
		e) Incorporation Document	
		f) Incorporation by Registration	
		g) Partners and their Relationship	

1. M.C. Kuchhal, and Vivek Kuchhal, Business Law, Vikas Publishing House, New Delhi.

- 2. Avtar Singh, *Business Law*, Eastern Book Company, Lucknow.
- 3. Ravinder Kumar, Legal Aspects of Business, Cengage Learning
- 4. SN Maheshwari and SK Maheshwari, Business Law, National Publishing House, New Delhi.
- 5. Aggarwal S K, Business Law, Galgotia Publishers Company, New Delhi.
- 6. Bhushan Kumar Goyal and Jain Kinneri, Business Laws, International Book House
- 7. Sushma Arora, Business Laws, Taxmann Pulications.
- 8. Akhileshwar Pathak, Legal Aspects of Business, McGraw Hill Education, 6th ed.
- 9. P C Tulsian and Bharat Tulsian, Business Law, McGraw Hill Education
- 10. Sharma, J.P. and Sunaina Kanojia, Business Laws, Ane Books Pvt. Ltd., New Delhi.
- 11. Ashok Sharma, "Business Law", V. K. Global Publications Pvt. Ltd.

Note: Latest edition of text books may be used.

ANNEXURE- I

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7.	One minor test	15 marks
8.	Assignments/ seminars/ class test/ tutorials/ quiz	10 marks
9.	Attendance	5 marks

It is approved that a student will have to pass both the components i.e. CCA and ESE separately to become eligible to be declared successful for the course.

Distribution of marks for CCA in Each course in each semester

7.	Minor test	15 marks
8.	Tutorial/ Home Assignment	10 marks
9.	Attendance	5 marks

Total = 30 marks

Continuous Comprehensive Assessment (CCA) pattern: instruments for conducting Minor Test and Evaluation of Tutorial/ Home Assignments/ seminars/ quiz/ etc.

Minor	Class test/ tutorials/ assignment/ seminar	Attendance	Total marks
test	presentation		
(Marks)			
15	10	5	30

Time allowed for conducting Minor Test will be 1.3 hours

(A)* Mode of conducting Minor Test (15 Marks). Minor Test will be conducted after the completion of 48 teaching days (8 weeks)

Three types of questions will be set in Minor Test:-

- 7. 5MCQ (Choice: 1 out of 4) True/ False type of questions of 1 marks each= 5 marks
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- 9. One question of about 500 words, carrying 5 marks = 5 marks

Marks (Minor Test) = (1+2+3) = (5+5+5) = 15 marks

Total of Minor Test= 15

(B) Distribution of marks for evaluation of Tutorial/ Home Assignment etc.:-

- 5. 5 marks are assignment for the quality of contents and structure of the assignment
- 6. 5 marks are assigned for the clarity of language of the spirit (Hindi/ English) and its presentation in the class room.

Total marks 5+5 =10 marks

(C) Attendance = 5 marks

Note: Paper setting Scheme for End Semester Examination (70 marks)

Part	Section	No. Of	Syllabus	Nature of Q &	Question to	Marks	Max. Marks
			Coverage	Answers	be		
					attempted		
А	1	10	Complete	Objective	10	1 each	10

				(MCQ)			
	2	8	Complete	Short answer	5	4 each	20
				100-150 words			
В	-	2	Unit- I		1	10	10
С	-	2	Unit- II		1	10	10
D	-	2	Unit- III		1	10	10
E	-	2	Unit- IV		1	10	10
Total							70

B.Com.: Semester II

Paper BC 2.3. BUSINESS MATHEMATICS AND STATISTICS

Objective: The objective of this course is to familiarize students with the applications of mathematics and statistical techniques in business decision-making.

Notes:

- 1. Use of simple calculator is allowed.
- 2. Proofs of theorems / formulae are not required.
- 3. Trigonometric functions are not to be covered.

UNIT	ΤΟΡΙϹ	DETAILS			
		Part A: Business Mathematics			
1	Business Mathematics	 Matrices Definition of a matrix. Types of matrices; Algebra of matrices. Calculation of values of determinants up to third order; Adjoint of a matrix; Finding inverse of a matrix through ad joint; Applications of matrices to solution of simple business and economic problems Differential Calculus Mathematical functions and their types – linear, quadratic, polynomial; Concepts of limit and continuity of a function; Concept of differentiation; Rules of differentiation – simple standard forms. Applications of differentiation – elasticity of demand and supply; Maxima and Minima of functions (involving second or third order derivatives) relating to cost, revenue and profit. Basic Mathematics of Finance Simple and compound interest Rates of interest – nominal, effective and continuous – their interrelationships; Compounding and discounting of a sum using different types of rates 			
		Part – B: Business Statistics			
2	Uni-variate Analysis	Measures of Central Tendency including arithmetic mean, geometric mean and harmonic mean: properties and applications; mode and median. Partition values - quartiles, deciles, and percentiles. Measures of Variation: absolute and relative. Range, quartile deviation and mean deviation; Variance and Standard deviation: calculation and properties.			

3	Bi-variate	Simple Linear Correlation Analysis: Meaning, and measurement. Karl		
	Analysis	Pearson's co-efficient and Spearman's rank correlation Simple Linear		
		Regression Analysis: Regression equations and estimation. Relationship		
		between correlation and regression coefficients		
4	Time-based	Meaning and uses of index numbers; Construction of index numbers:		
	Data: Index	Aggregative and average of relatives – simple and weighted, Tests of		
	Numbers and	adequacy of index numbers, Construction of consumer price indices.		
	Time-Series	Components of time series; additive and multiplicative models; Trend		
	Analysis	analysis: Finding trend by moving average method and Fitting of linear		
		trend line using principle of least squares.		

1. Mizrahi and John Sullivan. *Mathematics for Business and Social Sciences*. Wiley and Sons.

2. Budnick, P. Applied Mathematics. McGraw Hill Publishing Co.

3. N. D. Vohra, Business Mathematics and Statistics, McGraw Hill Education (India) Pvt Ltd

4. J.K. Thukral, Mathematics for Business Studies, Mayur Publications

5. J. K. Singh, *Business Mathematics*, Himalaya Publishing House.

6. J. K. Sharma, Business Statistics, Pearson Education.

7. S.C. Gupta, Fundamentals of Statistics, Himalaya Publishing House.

8. S.P. Gupta and Archana Gupta, Elementary Statistics, Sultan Chand and Sons, New Delhi.

9. Richard Levin and David S. Rubin, Statistics for Management, Prentice Hall of India, NewDelhi.

10. M.R. Spiegel, *Theory and Problems of Statistics*, Schaum's Outlines Series, McGraw Hill Publishing Co.

11. T. R. Jain & S. C. Aggarwal, "Business Mathematics and Statistics", V. K. Global Publications Pvt. td.

Note: Latest edition of text books may be used.

ANNEXURE- I

CCA Scheme- Students enrolled for the Academic session 2016-17 onwards CCA will account 30% of total marks i.e. 100, which a student will get in a course. The breakup of 30% i.e. 30 marks is given

12. Attendance	5 ma	rks
11. Assignments/ seminars/ class test/ tutorials/ quiz	10 m	arks
10. One minor test	15 m	arks

It is approved that a student will have to pass both the components i.e. CCA and ESE separately to become eligible to be declared successful for the course.

Distribution of marks for CCA in Each course in each semester

10. Minor test	15 marks
11. Tutorial/ Home Assignment	10 marks
12. Attendance	5 marks

Total = 30 marks

Continuous Comprehensive Assessment (CCA) pattern: instruments for conducting Minor Test and Evaluation of Tutorial/ Home Assignments/ seminars/ quiz/ etc.

Minor	Class test/ tutorials/ assignment/ seminar	Attendance	Total marks
test			

(Marks)	presentation		
15	10	5	30

Time allowed for conducting Minor Test will be 1.3 hours

(A)* Mode of conducting Minor Test (15 Marks). Minor Test will be conducted after the completion of 48 teaching days (8 weeks)

Three types of questions will be set in Minor Test:-

- 10. 5MCQ (Choice: 1 out of 4) True/ False type of questions of 1 marks each= 5 marks
- 11. Two questions of short answer type in about 150 words each of 2.5 marks= 5 marks
- 12. One question of about 500 words, carrying 5 marks = 5 marks

Marks (Minor Test) = (1+2+3) = (5+5+5) = 15 marks

Total of Minor Test= 15

(B) Distribution of marks for evaluation of Tutorial/ Home Assignment etc.:-

- 7. 5 marks are assignment for the quality of contents and structure of the assignment
- 8. 5 marks are assigned for the clarity of language of the spirit (Hindi/ English) and its presentation in the class room.

Total marks 5+5 =10 marks

(C) Attendance = 5 marks

Note: Paper setting Scheme for End Semester Examination (70 marks)

Part	Section	No. Of	Syllabus	Nature of	Question	Marks	Max.
			Coverage	Q &	to be		Marks
				Answers	attempted		
А	1	10	Complete	Objective	10	1 each	10
				(MCQ)			
	2	8	Complete	Short	5	4 each	20
				answer			
				100-150			
				words			
В	-	2	Unit- I		1	10	10
С	-	2	Unit- II		1	10	10
D	-	2	Unit- III		1	10	10
E	-	2	Unit- IV		1	10	10
Total							70