

DEPARTMENT OF COMMERCE: DIBRUGARH UNIVERSITY

Draft Structure of B.Com (Hons.) Course

Under Choice Based Credit System (CBCS)

Semester	Course	Course Code	Title	Credit	Remarks
I	Core	C 101	Financial Accounting	6	Compulsory
		C 102	Business Law	6	
	Generic Elective	G 101	Micro Economics	6	Compulsory
	Ability Enhancement	AE 101	Communicative English	2	Compulsory
		AE 102	MIL/ Communicative Hindi/ Alternative English	2	Compulsory
Total Credit				22	Compulsory
II	Core	C 203	Corporate Accounting	6	Compulsory
		C 204	Corporate Law	6	
	Generic Elective	G202	Macro Economics	6	Compulsory
	Ability Enhancement	AE 202	Environmental Science/Studies	2	Compulsory
Total Credit				20	Compulsory
III	Core	C 305	Human Resource Management	6	Compulsory
		C 306	Income Tax Law and Practice	6	
		C 307	Management Principles and Application.	6	
	Generic Elective	G 303	Business Statistics	6	Compulsory
	Skill Enhancement	SE 302	E-Commerce	2	Compulsory
Total Credit				26	Compulsory
IV	Core	C 408	Cost Accounting	6	Compulsory
		C 409	Business Mathematics	6	
		C 410	Computer Application in Business	6	
		G 404	Indian Economy	6	Compulsory
		SE 403	Entrepreneurship	2	Compulsory
Total Credit				26	
V	Core	C 511 C 512	Principles of Marketing Fundamentals of Financial Management	6 6	Compulsory

	Discipline Specific Elective	D501	Group-A a) Management Accounting b) Corporate Tax Planning	6	Student shall choose any two courses from group-A
		D502		6	
			c) Security Analysis and Portfolio Management d) Service Marketing e) Banking and Insurance f) Computerised Accounting System g) Financial Markets, Institutions and Financial Services		
Total Credit				24	
VI	Core	C 613 C 614	Auditing and Corporate Governance Indirect Tax Law	6 6	Compulsory Compulsory
	Discipline Specific elective	D 603 D 604	Group-B a) Fundamentals of Investment b) Consumer Affairs and Customer Care c) Business Tax Procedures and Management d) International Business e) Industrial Relations and Labour Laws f) Business Research Methods and Project Work	6 6	Students shall have to opt for any two courses from Group-B
Total Credit				24	
Grand Total				142	

DEPARTMENT OF COMMERCE: DIBRUGARH
UNIVERSITY CREDIT AND MARK DISTRIBUTION OF
B.Com(Hons.)COURSE

COURSE	CREDIT	MARKS
CORE	14X6=84	14X100= 1400
DSE	4X6=24	4X100= 400
GEC	4X6=24	4X100= 400
AEC	3X2=6	3X 50= 150
SEC	2X2=4	2X50= 100
Total	142	2450

Note: Course wise break-up of Credit and Marks.

B.Com. (Hons.): (CBCS)

Semester - I

C 101 - Financial Accounting (6 Credits)

Full Marks: 100 (Internal Assessment 20 + 80 End-Term)

Lectures: 45, Practical: 26 Hours, Tutorial: 7 Hrs.

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 1: (a) Theoretical Framework 5 L + 1 T

- i. Accounting as an information system, the users of financial 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.

(b) Accounting Process 2 L+ 1 T

From recording of a business transaction to preparation of trial balance including adjustments .

Marks:10

(c) Computerised Accounting Systems *26 Practical Lab. Hours

Computerised 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 Book, Ledger Accounts, Trial Balance, Profit and Loss Account, Balance Sheet, Fund Flow Statement, Cash Flow Statement
Selecting and shutting a Company; Backup and Restore data of a Company.

Unit II: (a) Business Income 5 L+ 1 T

- 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: straightline

method and diminishing balance method; Disposal of depreciable assets-change of method.

(b)Final Accounts

6 L + 1 T

Capital and revenue expenditures and receipts: general introduction only. Preparation of financial statements of non-corporate business entities.

Marks: 25

Unit III: Accounting for Hire Purchase and Installment Systems

9 L + 1 T

Calculation of interest, partial and full repossession, Hire purchase trading (total cash price basis), stock and debtors system; Concepts of operating and financial lease (theory only)

Marks: 15

Unit IV: Accounting for Inland Branches

9 L + 1 T

Concept of dependent branches; accounting aspects; debtors system, stock and debtors system, branch final accounts system and whole sale basis system. Independent branches: concept- accounting treatment: important adjustment entries and preparation of consolidated profit and loss account and balance sheet.

Marks: 15

Unit V: Accounting For Dissolution of the Partnership Firm

9 L + 1 T

Accounting of Dissolution of the Partnership Firm Including Insolvency of partners, sale to a limited company and piecemeal distribution

Marks: 15

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 15 marks. The practical examination will be for 1 hour.**
- 4. Theory Exam shall carry 80marks**

Suggested Readings:

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. Gupta R.L. Radhaswamy. M, Financial Accounting, Sultan Chand and Sons, New Delhi.
7. Jawhar Lal & S. Srivastav, B.Com-Financial Accounting, Himalaya Publishing House.
8. Tulsian, P.C. Financial Accounting, Pearson Education.
9. S.P. Jain and K.L. Narang, Financial Accounting, Kalyani Publishers.

B.Com. (Hons.): (CBCS)
Semester - I
C 102- BUSINESS LAW (6 Credit)
Lectures: 60 Tutorial 5

Full Marks: 100 (Internal Assessment 20 + 80 End-Term)

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

Contents:

Unit I: The Indian Contract Act, 1872: General Principle of Law of Contract 12 L+ 1 T

- a) Contract – meaning, characteristics and kinds
- b) Essentials of a valid contract - Offer and acceptance, consideration, contractual capacity, free consent, legality of objects.
- c) Void agreements
- d) Discharge of a contract – modes of discharge, breach and remedies against breach of contract.
- e) Contingent contracts
- f) Quasi - contracts

Marks: 16

Unit II: The Indian Contract Act, 1872: Specific Contract

12 L + 1 T

- a) Contract of Indemnity and Guarantee
- b) Contract of Bailment
- c) Contract of Agency

Unit III: The Sale of Goods Act, 1930

12 L+ 1 T

- a) Contract of sale, meaning and difference between sale and agreement to sell.
- b) Conditions and warranties
- c) Transfer of ownership in goods including sale by anon-owner
- d) Performance of contract of sale
- e) Unpaid seller – meaning, rights of an unpaid seller against the goods and the buyer.

Marks: 16

Unit IV: Partnership Laws

12 L + 1 T

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

Marks: 16

Unit V: The Negotiable Instruments Act 1881

12 L + 1 T

- 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

Marks: 16

Suggested Readings:

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 Publications.
8. Akhileshwar Pathak, Legal Aspects of Business, McGraw Hill Education, 6th ed.
9. Sarvanavel-A Text Book of Business Law, Himalaya Publishing House.
10. Kapoor N.D., Business Law, Sultan Chand & Sons, New Delhi.

11. Garg and Chawla, Business Law, Kalyani Publishers.
12. P C Tulsian and Bharat Tulsian, Business Law, McGraw Hill Education
13. Bulchandani K.R, Business Law, Himalaya Publishing House.

B.Com. (Hons.) (CBCS)
Semester – I
G 101- MICRO ECONOMICS (6 Credit)
Lectures: 60 Tutorial 5

Full Marks: 100 (Internal Assessment 20 + 80 End-Term)

Objective: The objective of the course is to acquaint the students with the concepts of microeconomics dealing with consumer behavior. The course also makes the student understand the supply side of the market through the production and cost behavior of firms.

CONTENTS

Unit I: Demand and Consumer Behaviour

12 L+ 1 T

Concepts of revenue: marginal and Average: Revenue under conditions of Perfect and imperfect competition Elasticity of demand: price, income and cross.

Consumer Behaviour: Indifference curve analysis of consumer behavior; Consumer's equilibrium (necessary and sufficient conditions). Price elasticity and price consumption curve, income consumption curve and Engel curve, price change and income and substitution effects. Indifference curves as an analytical tool (cash subsidy v/s. kind subsidy). Revealed Preference Theory.

Marks: 16

Unit II: Production and Cost

12 L+ 1 T

Production isoquants, marginal rate of technical substitution, economic region of production, optimal combination of resources, the expansion path, isoclines, returns to scale using isoquants. Cost of Production: Social and private costs of production, long run and short run costs of production. Economies and diseconomies of scale and the shape to the long run average cost. Learning curve and economies of scope.

Marks: 16

Unit III: Perfect Competition

12 L+ 1 T

Perfect competition: Assumptions. Equilibrium of the firm and the industry in the short and the long runs, including industry's long run supply curve. Measuring producer surplus under perfect competition. Stability Analysis – Walrasian and Marshallian. Demand - supply analysis including impact of taxes and subsidy.

Marks: 16

Unit IV: Monopoly

10 L + 1 T

Monopoly: Monopoly short run and long run equilibrium. Shifts in demand curve and the absence of the supply curve. Measurement of monopoly power and the rule of thumb for pricing. Horizontal and vertical integration of firms. The social costs of monopoly power including deadweight loss. Degrees of price discrimination.

Marks: 12

Unit V: Imperfect Competition

14 L + 1 T

Monopolistic Competition and Oligopoly: Monopolistic competition price and output decision-equilibrium. Monopolistic Competition and economic efficiency Oligopoly and Interdependence – Cournot's duopoly model, Stackelberg model, Kinked demand model. Prisoner's dilemma, collusive oligopoly – price-leadership model – dominant firm, cartels, sales maximization, Contestable markets theory. Pricing Public Utilities.

Marks: 20

Suggested Readings:

1. Pindyck, R.S., D. L. Rubinfeld and P. L. Mehta; Microeconomics, Pearson Education.
2. N. Gregory Mankiw, Principles of Micro Economics, Cengage Learning.
3. Maddala G.S. and E. Miller; Microeconomics: Theory and Applications, McGraw-Hill Education.
4. Salvatore, D. Schaum's Outline: Microeconomic Theory, McGraw-Hill, Education.
5. Case and Fair, Principles of Micro Economics, Pearson Education.
6. Koutsiyannis, Modern Micro Economic Theory.
7. C Snyder, Microeconomic Theory: Basic Principles and Extensions, Cengage Learning.
8. Bilas, Richard A., Microeconomics Theory: A Graphical Analysis, McGraw-Hill Education.
9. Paul A Samuelson, William D Nordhaus, Microeconomics, McGraw-Hill Education.
10. Amit Sachdeva, Micro Economics, Kusum Lata Publisher\

B.Com (Hons.) (CBCS)
Semester - II
C 203-Corporate Accounting (6 Credit)
Lectures: 60 Tutorial: 5
Full Marks: 100 (Internal Assessment 20 + 80 End-Term)

Objectives: To help the students to acquire the conceptual knowledge of the corporate accounting and to learn the techniques of preparing the financial statements.

Unit I. Accounting for Share Capital & Debentures **14 L+ 1 T**
Issue, forfeiture and reissue of forfeited shares: concept & process of book building; Issue of rights and bonus shares; Buy back of shares; Redemption of preference shares; Issue and Redemption of Debentures.

Marks:20

Unit II. Final Accounts **14 L + 1 T**
Preparation of profit and loss account and balance sheet of corporate entities, excluding calculation of managerial remuneration, Disposal of company profits, Accounts of Banking Companies.

Marks: 20

Unit III. Valuation of Goodwill and Valuation of Shares and Cash flow Statement.

Concepts and calculation: simple problem only, Cash Flow Statement.

12 L+ 1 T

Marks:14

Unit IV. Amalgamation of Companies **11 L + 1 T**

Concepts and accounting treatment as per Accounting Standard: 14 (ICAI) (excluding inter-company holdings). Internal reconstruction: concepts and accounting treatment excluding scheme of reconstruction.

Marks: 14

Unit V. Accounts of Holding Companies/Parent Companies **9 L + 1 T**

Preparation of consolidated balance sheet with one subsidiary company. Relevant provisions of Accounting Standard: 21(ICAI).

Marks: 12

Suggested Readings:

1. J.R. Monga, *Fundamentals of Corporate Accounting*. Mayur Paper Backs, NewDelhi.
2. M.C. Shukla, T.S. Grewal, and S.C. Gupta. *Advanced Accounts*. Vol.-II. S. Chand & Co.,New Delhi.
3. S.N. Maheshwari, and S. K. Maheshwari. *Corporate Accounting*. Vikas Publishing House, NewDelhi.
4. Ashok Sehgal, *Fundamentals of Corporate Accounting*. Taxman Publication, NewDelhi.
5. V.K. Goyal and Ruchi Goyal,. *Corporate Accounting*. PHILearning.
6. Jain, S.P. and K.L. Narang. *Corporate Accounting*. Kalyani Publishers, NewDelhi.
7. P. C. Tulsian and Bharat Tulsian, *Corporate Accounting*,S.Chand
8. Vasudeva Sakshi, *Corporate Accounting*, Himalaya.

9. Hanif & Mukherjee, Modern Accountancy, Tata Mc.GrawHill.
10. Gupta R.L. Radhaswamy, Advanced Account, Sultan Chand andSons.

B.Com (Hons): (CBCS)
Semester-II
Core Course
C 204-Corporate Law (6 Credit)
Lecture: 60 Tutorial: 5
Full Marks: 100 (Internal Assessment 20 + 80 End-Term)

Objective: the objective of the course is to impart basic knowledge of the provisions of the Companies Act 2013 and the depositories Act, 1996. Case studies involving issues in corporate laws are required to be discussed.

Unit I: Introduction

Administration of Company Law [including National Company Law Tribunal (NCLT), National Company Law Appellate Tribunal (NCLAT), special Courts]; Characteristics of a company; lifting of corporate veil; type of companies including one person company, small company and dormant company; association not for profit; illegal association; formation of company, on-line filing of documents, promoters, their legal position, pre-incorporation contract; on-line registration of a company.

14 L + 1 T

Marks:18

Unit-II: Documents

Memorandum of association, Articles of association, Doctrine of constructive notice and indoor management, prospector-shelf and red herring prospectus, misstatement in prospectus, GDR; book-building; issue, allotment and forfeiture of share, transmission off shares, buyback and provisions regarding buyback; issue of bonus shares.

14 L + 1 T

Marks:18

Unit-III: Management

Classification of directors, women directors, independent director, small shareholder's director; disqualifications, director identity number (DIN); appointment; Legal positions, powers and duties; removal of directors; Key managerial personnel, managing director, manager; Meeting: Meetings of shareholders and board of directors; types of meetings, convening and conduct of meetings, requisites of a valid meeting, postal ballot, meting through video conferencing, e-voting.

Committees of Board of Directors-Audit Committee, Nomination and Remuneration Committee, Stakeholders relationship committee, corporate social responsibility committee.

14 L + 1 T

Marks:18

Unit-IV: Accounts and Audit

14 L+ 1 T

Dividends, Accounts, Audit: Provisions relating to payment of dividend, provisions relating to book of account, provisions relating to audit, auditors' appointment, rotation of auditors , auditors' report, secretarial audit.

Winding up: concept and modes of winding up.

Insider trading, whistle blowing: Insider trading; meaning & legal provisions; whistle- blowing: concept and mechanism.

Marks: 18

Unit V: Depositories Law

4 L

The Depositories Act 1996-definitions; rights and obligations of depositories, participants issuers and beneficial owners; enquiry and inspections, penalty.

Marks: 08

Suggested Readings:

1. MC Kuchhal, *Modern Indian Company Law*, Shri Mahavir Book Depot(Publishers), Delhi.
2. GK Kapoor and Sanjay Dhamija, *Company Law*, Bharat Law House, Delhi.
3. Anil Kumar, *Corporate Laws*, Indian Book House, Delhi
4. Avtar Singh, *Introduction to Company Law*, Eastern Book Company
5. Ramaiya, *A Guide to Companies Act*, LexisNexis, Wadhwa and Buttersworth.
6. *Manual of Companies Act, Corporate Laws and SEBI Guideline*, Bharat Law House, New Delhi,.
7. *A Compendium of Companies Act 2013, along with Rules*, by Taxmann Publications.
8. Garg K.C., *Corporate Law (Odisha)*, Kalyani Publishers.
9. Maheswari, *Maheswar-Elements of Corporate Laws*-Himalaya Publishing House.
10. Kapoor G.K. and Suri A.P., *Corporate Laws*, Taxmann Publications.

B.Com. (Hons.): (CBCS)
Semester - II
Paper – G 202: MACRO ECONOMICS
Lectures: 60 Tutorial: 5
Full Marks: 100 (Internal Assessment 20 + 80 End-Term)

Objectives: The course aims at providing the student with knowledge of basic concepts of the macro economics. The modern tools of macro-economic analysis are discussed and the policy framework is elaborated, including the open economy.

Contents:

Unit I: Introduction

4 L + 1 T

Concepts and variables of macroeconomics, income, expenditure and the circular flow, components of expenditure. Static macroeconomic analysis short and the long run –determination of supply, determination of demand, and conditions of equilibrium.

Marks: 08

Unit II: Economy in the short run

19 L+ 1 T

IS–LM framework, fiscal and monetary policy, determination of aggregate demand, shifts in aggregate demand, aggregate supply in the short and long run, and aggregate demand- aggregate supply analysis.

Marks: 20

Unit III: Inflation, Unemployment and Labour market

19L+1T

Inflation: Causes of rising and falling inflation, inflation and interest rates, social costs of inflation; Unemployment – natural rate of unemployment, frictional and wait unemployment. Labour market and its interaction with production system; Phillips curve, the trade-off between inflation and unemployment, sacrifice ratio, role of expectations adaptive and rational.

Marks: 20

Unit IV: Open economy

12 L+ 1 T

Open economy – flows of goods and capital, saving and investment in a small and a large open economy, exchange rates, Mundell – Fleming model with fixed and flexible prices in a small open economy with fixed and with flexible exchange rates, interest-rate differentials case of a large economy.

Marks: 18

Unit V:

6 L + 1 T

Behavioral Foundations- Investment –determinants of business fixed investment, effect of tax, determinants of residential investment and inventory investment. Demand for Money – Portfolio and transactions theories of demand for real balances, interest and income elasticities of demand for real balances. Supply of money.

Marks: 14

Suggested Readings:

1. Mankiw, N. Gregory. *Principles of Macroeconomics*. Cengage Learning.
2. Robert J Gordon, *Macroeconomics*, Pearson Education.
3. Branson, William H. *Macroeconomic Theory and Policy*. HarperCollins India Pvt.Ltd.
4. Rudiger Dornbusch and Stanley Fischer, *Macroeconomics*. McGraw-Hill Education.

5. Rudiger Dornbusch, Stanley Fischer, and Richard Startz, *Macroeconomics*. McGraw-Hill Education
6. Oliver J. Blanchard, *Macroeconomics*, Pearson Education
7. G. S. Gupta, *Macroeconomics: Theory and Applications*, McGraw-Hill Education
8. Shapiro, *Macroeconomic Analysis*,
9. Paul A Samuelson, William D Nordhaus, and Sudip Chaudhuri, *Macroeconomic*, McGraw-Hill Education
10. S N Singh, Samasthi Arthasastra, Pearson Education.

(Note: Latest edition of text books may be used.)

B.Com. (Hons.) (CBCS)
Semester - II
AE 202: BUSINESS COMMUNICATION (2 Credit)
(In English)
Full Marks: 50 (Internal Assessment 10 + 40 End-Term)

Objective: To equip students of the B.Com (Hons.) course effectively to acquire skills in reading, writing, comprehension and communication, as also to use electronic media for business communication.

Contents:

Unit I: Introduction:	6 L
Nature of Communication, Process of Communication, Types of Communication (verbal & Non Verbal), Importance of Communication, Different forms of Communication Barriers to Communication Causes, Linguistic Barriers, Psychological Barriers, Interpersonal Barriers, Cultural Barriers, Physical Barriers, Organizational Barriers.	
	Marks: 08
Unit II: Business Correspondence	6 L
Letter Writing, presentation, Inviting quotations, Sending quotations, Placing orders, Inviting tenders, Sales letters, claim & adjustment letters and social correspondence, Memorandum, Inter-office Memo, Notices, Agenda, Minutes, Job application letter, preparing the Resume.	
	Marks: 08
Unit III: Report Writing	6 L
Business reports, Types, Characteristics, Importance, Elements of structure, Process of writing, Order of writing, the final draft, check lists for reports.	
	Marks: 08
Unit IV: Vocabulary	6 L
Words often confused, Words often misspelt, Common errors in English.	
	Marks: 08
Unit V: Oral Presentation	6 L
Importance, Characteristics, Presentation Plan, Power point presentation, Visual aids.	
	Marks: 08

Suggested Readings:

1. Bovee, and Thill, *Business Communication Essentials*, Pearson Education.
2. Shirley Taylor, *Communication for Business*, Pearson Education.
3. Locker and Kaczmarek, *Business Communication: Building Critical Skills*, McGraw Hill Education.
4. Herta A Murphy, Herbert W Hildebrandt, Jane P. Thomas, *Effective Business Communication (SIE)*, McGraw Hill Education.
5. Dona Young, *Foundations of Business Communication: An Integrative Approach*, McGraw Hill Education.
6. Raymond V. Lesikar, Marie E. Flatley, Kathryn Rentz, Paula Lentz, and Neerja Pande, *Business Communication: Connecting in a Digital World (SIE)*, McGraw Hill Education.

(Note: Latest edition of text books may be us

B.Com (Hons.) (CBCS)
Semester -II
Ability Enhancement Compulsory Course
AE 202-Environmental Science (2Credit)
Lectures:30
Full Marks: 50 (Internal Assessment 10 + 40 End-Term)

Unit I: Ecosystems **10 Lectures**

Ecosystem-Structure and function of ecosystem (Abiotic and biotic factors); Energy flow in an ecosystem.

Environmental Problems: Global warming and Climate change, ozone layer depletion. Deforestation, acid rain; impacts of environmental disturbances.

Unit II: Natural Resources and Biodiversity **10 Lectures**

Energy resources: Renewable and non-renewable energy sources. Biodiversity patterns and global biodiversity hot spots, India as a mega-diversity, Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

Unit III: Environmental Pollution, Impact and Management **10 Lectures**

Environmental pollution: Air, water, soil and noise pollution, Nuclear hazards and human health risks, solid waste management: Control measures of urban and industrial waste.

Environmental Protection Act and International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).

Unit wise distribution of marks shall be same for all the disciplines

Suggested Readings:

1. Carson, r. 2002 Silent Spring. Houghton MifflinHarcourt.
2. Gadgil, M., & Guha, R. 1993. This Fissured Land: An Ecological History of India. University of California Press.
3. Gleeson, B. and Low, N. (eds) 1999. Global Ethics and Environment, London, Routledge.
4. Gleick, P.H. 1993. Water in Crisis. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford University Press.
5. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. Principles of conservation Biology. Sunderland: Sinauer Associates, 2006.

6. Grumbine, R. Edward and Pandit, M.K. 2013. Threats from India's Himalayadams. *Science*,339:36-37.
7. McCully, P. 1996. Rivers no more: the environmental effects of dams (pp. 29-64).Zed Books.
8. McNeill, John R. 2000. Something New Under the Sun: Ann Environmental Historyof the TwentiethCentury.
9. Odum, e.P., Odum, H.T. & Andrews, j. 1971. Fundamentals of Ecology.Philadelphia: Saunders.
10. Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. Environmmental andPollution Science. AcademicPress.