XVI. COURSE MATRIX-See Annexure – I & II Sem for B. Com Degree (Regular) Course Matrix

Annexure-1

B.COM DEGREE (SEP) COURSE MATRIX 2024-25

I SEMESTER B. COM (REGULAR) SEP-2024-25

	Subjects	Paper	Working hrs (L+T+P	Exam (hrs.)	Marks			Credits
					IA	Uni. Exam	Total	
Part 1 Languages	Language-1 Indian Languages/ Foreign Language	L-1.1	(3+1+0) 4	3	20	80	100	3
	Language – I : English	EL -1.2	(3+1+0) 4	3	20	80	100	3
Part-2 Core Papers	Financial Accounting	Com-1.1	4	3	20	80	100	4
	Corporate Law	Com-1.2	4	3	20	80	100	4
	Modern Marketing	Com-1.3	4	3	20	80	100	4
	Business Quantitative Analysis	Com-1.4	4	3	20	80	100	4
Part 3 Compulsory	Environmental studies (EVS)	EVS-1	2	$1\frac{1}{2}$	20	30	50	2
	Total Credits						**650**	**24**

II SEMESTER B. COM (REGULAR) SEP-2024-25

	Subjects	Paper	Working Hrs (L+T+P)	Exam (hrs.)	Marks			Credits
					IA	Uni. Exam	Total Marks	
Part-1 Languages	Language -1 Indian Languages/ Foreign Language	L-2.1	(3+1+0) 4	3	20	80	100	3
	Language – II : English	EL-2.2	(3+1+0) 4	3	20	80	100	3
Part-2 Core Papers	Advanced Financial Accounting	Com-2.1	4	3	20	80	100	4
	Modern Banking	Com-2.2	4	3	20	80	100	4
	Human Capital Management	Com-2.3	4	3	20	80	100	4
	Business Data Analysis	Com-2.4	4	3	20	80	100	4
Part-3 Compulsory	Computer Accounting-Tally Prime (CATP)	Job Skill - 2 CA TP	(1+0+2) 2	$1\frac{1}{2}$	20	30	50	2
	Total Credit						**650**	**24**

I SEM B.COM

Name of the Programme: BACHELOR OF COMMERCE B. COM (REGULAR)

Course Code: CFA1S1

Name of the Course: Financial Accounting

Course Credits	No. of Hours Per Week	Total No. of Teaching Hours
4	4	60

PEDAGOGY:

Classrooms Lecture, Group Discussion, Presentations, Case Studies, Simulations, Field Work, Industrial Visit (where ever is required) etc.,

COURSE OBJECTIVES:

- To develop a solid grasp of fundamental accounting principles and concepts, including revenue recognition for sales involving approval or return.
- Acquire the skills to accurately handle diverse accounting tasks, such as recording consignment transactions, managing royalty payments, and processing fire insurance claims.

COURSE OUTCOMES:

Upon successful completion of the course, the students will be able to

CO1: Understand the fundamental principles and concepts of accounting.

CO2: Demonstrate proficiency in applying revenue recognition principles to transactions involving the sale of goods for approval or return.

CO3: Proficiently apply diverse methods to record and reconcile consignment transactions.

CO4: Accurately record, manage, and report royalty transactions, ensuring compliance with contractual agreements and financial regulations.

CO5: Accurately calculate and document fire insurance claims, ensuring compliance with policy terms and facilitating efficient claim settlement.

SYLLABUS

MODULE 1: INTRODUCTION TO ACCOUNTING **10 Hrs**

Introduction – Meaning and Definition of Accounting – Objectives of Accounting – Accounting Principles Functions of Accounting – Accounting Concepts and Accounting Conventions – Accounting Process Uses of Accounting Information, Accounting Cycle – Journal – Ledger – Trial Balance – Adjusting entries, debit notes, credit notes, accounting equation- simple problems on accounting equation and adjusting entries

Only Branches of Introduction to accounting Standards Objectives Significance List of Ind AS concepts only

MODULE 2: CONVERSION OF SINGLE ENTRY TO DOUBLE ENTRY **12 Hrs**

Meaning, Features, Merits-Demerits-Types of single-entry system -Differences between single entry system and double entry system-Need and methods of conversion of single entry into double entry – Problems on Conversion of single entry into double entry (simple problems only)

MODULE 3: CONSIGNMENT ACCOUNTS **12 Hrs**

Introduction - Meaning of Consignment - Features-Consignment Vs Sales – Consignor and his responsibilities – Consignee and his responsibilities - Types Commission – Ordinary Commission, Del-credere Commission and over-riding commission - Illustration on commission – Calculation of consignment stock value under cost price and invoice price - Accounting for Consignment Transactions & Events – (Include Treatment of Normal & Abnormal Loss, Cost Price and Invoice Price) Problems in the books of Consignor only. Features, Problems on consignment in the Books of Consignor Only

MODULE 4: ROYALTY ACCOUNTS **14 Hrs**

Introduction - Meaning and Definition - Terms used in Royalty Agreement – Lessor – Lessee – Minimum Rent -Short Workings – Irrecoverable Short Workings - Recoupment of Short Workings Preparation of Royalty Analysis Table (Excluding Government Subsidy) Maintaining Accounts in the books of accounts Lessee only - Journal Entries and Ledger Accounts in the books of Lessee only i) With Minimum Rent Account is Required
ii) When Minimum Rent Account is not Required.
Note: Problems including Strikes and Lockouts, but excluding sub-lease.

MODULE 5: FIRE INSURANCE CLAIM **12 Hrs**

Introduction - Meaning of Fire Insurance Claim – Features of Fire Insurance Policy, Principles of Fire Insurance. Concept of Loss of Stock and Average Clause. application of Average Clause Steps in calculation of Fire Insurance P Claim – Problems on Computation of Claim for loss of stock (including Over valuation and Under Valuation of Stock, Abnormal Items)

Skill Development Activities

1. Identify and elaborate any two case studies that illustrate the application of different accounting principles, concepts, and conventions in real-world scenarios.
2. List out industries (eg, fashion retail, electronics) where sales on approval or return are common and describe case study of any one industry
3. Record a series of consignment transactions in accounting transactions and generate the report.
4. Identify any one consignment business and describe the roles and responsibilities executed by consignor and consignee
5. Prepare a comprehensive fire insurance claim report based on a simulated fire incident.
6. Discuss the Royalty Agreement and Terms of any two companies.
7. Any other activities, which are relevant to the course

Books for Reference

- Compendium of Statements and Standards of Accounting. The Institute of Chartered Accountants of India, New Delhi.
- ICAI Study Materials on Principles & Practice of Accounting, Accounting and SP Iyengar (2005), Advanced Accounting, Advanced Accounting, Sultan Chand & Sons, Vol 1
- Charles T. Horngren and Donna Philbrick, (2013) Introduction to Financial: Accounting, Pearson Education, 11th Edition
- J.R. Monga, Financial Accounting: Concepts and Applications Mayur Paper Backs, New Delhi, 32nd Edition.
- S.N Maheshwarı, and S K Maheshwari Financial Accounting. Vikas Publishing House, New Delhi, 6th Edition
- BS. Raman (2008), Financial Accounting Vol 1 & II, United Publishers & Distributors
- Compendium of Statements and Standards of Accounting. The Institute of Chartered

- Accountants of India, New Delhi. Note Latest edition of textbooks and reference Books may be used.

Name of the Program: Bachelor of Commerce (B. Com)

Paper: CCL1S2

Name of the Course: Corporate Law

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4	4	60

PEDAGOGY:

Classrooms Lecture, Group Discussion, Presentations, Case Studies, Simulations, Field Work, Industrial Visit (where ever is required) etc.,

COURSE OBJECTIVES:

- To provide comprehensive insights into the Companies Act, enabling students to understand the legal framework governing various types of organizations, their formation, and the associated rules and regulations.
- To educate students on the roles, duties, and responsibilities of various positions within a company, along with an understanding of key activities, decision-making processes, and capital management in the current business environment

COURSE OUTCOMES:

On successful completion of the course, the students' will be able to

CO1: Provide insight about the complete company's Act to the students which would help them in understanding various types of organizations under the law.

CO2: This helps in understanding the formation of a company with all the required rules and regulations.

CO3: Throws light on the various positions in any company, the duties and responsibilities of those positions, which would motivate the students in understanding the roles of various positions.

CO4: The concept is to provide complete detail about various activities and decision-making concept in companies in the present scenario.

CO5: To understand the various concepts of raising capital and managing the same.

SYLLABUS:

Module 1: INTRODUCTION TO COMPANY **12 Hrs**

Meaning and Definition – Features –, Companies Act 2013 –Kinds of Companies (Concept, Definition and Features) – One Person Company, Private Company, Public Company, Company limited by Guarantee, Company limited by Shares, Holding Company, Subsidiary Company, Government Company, Associate Company, Small Company, Foreign Company, Listed Company, Dormant company. Body Corporate & Corporate Body,

Module 2: FORMATION OF A COMPANY **12 Hrs**

Steps in formation of a Company, Promotion Stage, Meaning of Promoter, Position of Promoter & Functions of Promoter, Incorporation Stage – Meaning, Contents, Forms of Memorandum of Association & Articles of Association and its alteration, Distinction between Memorandum of Association and Articles of Association,
Certificate of Incorporation, Subscription Stage –Meaning & contents of Prospectus, Misstatement in prospectus and its consequences.

Module 3: SOURCES OF CAPITAL **10 Hrs**

Shares- Definition and Types of Shares, issue of share -book building- offer, Allotment of shares -pro-rata basis, Employee Stock Ownership Plan (ESOP), Buyback, Sweat Equity, Bonus, Right, Capital Reduction, Share Certificate, Demat System, Transfer and Transmission, Redemption of Preference Shares, Rules regarding Dividend and distribution of dividend.

Debenture –Definition, Types, Rules Regarding Issue of Debenture,

Bonds- issues of bonds, types of bonds- concepts only

Module 4: COMPANY ADMINISTRATION **16 Hrs**

Director (Concept and Definition), Director Identification Number [DIN], Appointment and Qualification, Position, Rights, Duties, Power, Resignation, Liabilities, Removal and Resignation of Director.

Appointment, Qualifications and duties of – Managing Director, Whole-time Director, Resident Director, Independent Director, Women director, Company Secretary, Chief Executive Officer, Chief Operational Officer, Chief Financial Officer.

CORPORATE MEETINGS-Corporate Meetings - Shareholder and Board meeting, Types of Meetings – Annual General Meeting Extraordinary General meeting, Meeting of BOD and other meetings (Section 118), Requisite of Valid Meeting-Notice, Agenda, Chairman, Quorum, Proxy, Resolutions, Minutes, Postal Ballot, E- voting, Video-Conferencing

Module 5: LIQUIDATION OF COMPANY **10 HRS**

Nature and causes -types of liquidation. Difference between liquidation, bankruptcy and insolvency. Liquidation process- role, duties and power of liquidator. Administration of NCLT(National Company Law tribunal), NCLAT(National Company Law Appellate Tribunal)and Special quotes

Skill Development Activities

1. Constitute a Private limited company in accordance with the provision of Company's Act.
2. Prepare the AOA & MOA for the company so constituted by you as first activity.
3. List out the roles and responsibilities handled by any Senior manager in any corporate company by meeting them in person.
4. Create a agenda for an AGM and prepare the minutes of the meeting as per the norms of company's act.
5. Collect at least 2 prospectuses of any company which is issuing shares.
6. CS experts guest lectures.

BOOKS FOR REFERENCE

Company Law – Avtar Singh

- Taxman's Company Law – The most amended, updated & simplistic textbook to interpret, explain & illustrate the provisions of the Companies Act along with the latest landmark Case Laws, etc. [2024]
    - A text book of Company Law.
    - Taxmann's LLP law manual
- Company Law (A diagrammatic and Tabular Presentation) by CA. Ashish K Agrawal.

Lecture on Company Law (Companies Act 2013) by Dr.Rega Surya Rao.

Name of the Programme: Bachelor of Commerce B. Com (Regular)

Paper:-CMM1S3

Name of the Course: Modern Marketing

Course Credits	No. of Hours Per Week	Total No. of Teaching Hours
4	4	60

PEDAGOGY:

Classrooms Lecture, Group Discussion, Presentations, Casestudies Simulations, Field Work, Industrial Visit (where ever is required) etc.,

COURSE OBJECTIVES:

- To provide a comprehensive understanding of marketing in the current competitive landscape, emphasizing its meaning, concepts, and strategic importance in business contexts.
- To empower students with the skills to identify, analyse, and leverage new trends in marketing, advertising, and technology for effective consumer engagement.

COURSE OUTCOMES:

Upon successful completion of the course, the students will be able to

CO 1: Understand the meaning and concept of Marketing in the present scenario of competitive world.

CO 2: Understand the evolution and growth of business with an approach to understand the value-based business activity

CO 3: insight to the students about the product planning and pricing based on various aspects in the market.

CO 4: Enhances the knowledge about the new trends in market, advertising and tech-based approach in reaching consumers.

CO 5: Possess the knowledge and skills to develop comprehensive and integrated marketing strategies that leverage emerging trends in marketing.

SYLLABUS

MODULE 1: INTRODUCTION TO MARKETING **10 Hrs**

Introduction-Marketing: Meaning and Definition – Goals of Marketing Importance, Functions, Concept and Approaches to Marketing - Classification of Markets – Societal Marketing, Holistic Marketing, Customer Relationship, Marketing, Integrated Marketing, Internal Marketing and Performance Marketing.

MODULE 2: MARKETING ENVIRONMENT & ETHICS IN MARKETING **12 Hrs**

Meaning – Demographic, Economic, Natural, Political, Legal and socio-cultural environments – Market Segmentation – Meaning and Definition – Importance – Bases of Market Segmentation –

Ethics in Marketing-Meaning, Importance, Role of ethics in Marketing, Marketing Ethics in the digital age.

MODULE 3: MARKETING MIX **14 Hrs**

Marketing Mix - the components of 28(Ps) of Marketing mix -Meaning and Elements, Product Mix-Product Line, Product Life Cycle (PLC) - Product Planning - New Product Development - Branding, Packaging and Labelling –Product Positioning, Product Differentiation – Concept and Importance – Pricing

MODULE 4: PRINCIPLES AND DRIVERS OF NEW MARKETING ENVIRONMENT **12 Hrs**

Principles and Drivers of New Marketing Environment – Web 2.0-Digital Media

Industry – Reaching Audience Through Digital Channels-Traditional and Digital Marketing - Introduction to Online Marketing Environment - Dotcom Evolution - Internet Relationships - Business in Modern Economy - Integrating E-Business to an Existing Business Model – concept of digital marketing-Online Marketing Mix– SoLoMo (Social-Local-Mobile)-Social Media Sites & Monetization- Careers in Social Media Marketing, Online content development & key word optimization.

MODULE 5: RECENT TRENDS IN MARKETING **12 Hrs**

Meaning, Importance, Benefits and Process on Omnichannel Marketing – Content Marketing & Story Telling - Influencer Marketing - Experiential Marketing - Voice Search and Smart Speaker Marketing - Augmented Reality (AR) and Virtual Reality (VR) Marketing - Programmatic Advertising – Sensory Marketing – Neuro Marketing. – consumer socialization and its landscape

Factors Influencing Pricing - Methods of Pricing

SKILL DEVELOPMENT ACTIVITIES

1. Prepare a chart showing different types of Marketing Strategies.
2. Identify the product of your choice and describe in which stage of the product life cycle it is positioned.
3. Suggest strategies for development of a new product.
4. Develop an Advertisement copy for a product.
5. List out the areas where sensory marketing and neuro marketing is applicable and discuss your opinion on application of these marketing
6. Any other activities, which are relevant to the course.

BOOKS FOR REFERENCE:

- Philip Kotler - Marketing Management, PHI
- Rekha. M.P. & Vibha V – Marketing & Services Mgt – VBH.
- Sunil B. Rao - Marketing & Services Mgt – HPH.
- Dr. Alice Mani: Marketing & Services Management, SBH.
- J.C. Gandhi - Marketing Management, TMH
- Stanton W.J. etzal Michael & Walker, Fundamentals of Management, TMH
- Jayachandran ; Marketing Management. Excel Books.
- K. Venkatramana, Marketing Management, SHBP.
- P N Reddy & Appanniah, Essentials of Marketing Management, HPH
- Sontakki, Marketing Management, HPH
- Cengiz Haksever etal – 'Service Management and Operations'; Pearson Education.
- Ramesh and Jayanthi Prasad : Marketing Management I.K. International Publishers
- K. Karunakaran; Marketing Management, HPH.
- Davar: Marketing Management

Name of the Program: Bachelor of Commerce (B.Com.) Course

Code: CQA1S4

Name of the Course: BUSINESS QUANTITATIVE ANALYSIS

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4	4	60

PEDAGOGY:

Classrooms Lecture, Group Discussion, Presentations, Case Studies, Simulations, Field Work, Industrial Visit (where ever is required) etc.,

COURSE OBJECTIVE:

The course is designed to introduce students to the basic Quantitative skills you will need to understand, analyse, and solve mathematical problems encountered in business and finance, and in investment decision making.

COURSE OUTCOMES:

CO1: Develop critical thinking skills to analyze and interpret problems involving ratios and proportions, and to choose appropriate strategies for solving them.

CO2: Recognize and apply equations in practical situations beyond the classroom, connecting theoretical concepts to everyday scenarios and other academic disciplines.

CO3: Students will demonstrate an understanding of fundamental concepts in set theory, including sets, elements, subsets, universal sets, and set operations

CO4: Develop logical reasoning skills through the study of permutations and combinations, including understanding implications and proofs involving these concepts.

CO5: Calculate returns on investments, understand the time value of money, and apply arithmetic principles to assess investment opportunities.

SYLLABUS:

MODULE 1: PERCENTAGES, RATIOS AND PROPORTIONS **10 Hrs**

Percentages - Meaning of Percent, Meaning of Percentage-Difference between Percent and Percentage-Expression of Percent-Calculation of Percentage – Overview of ratios-Basic Terms of Ratios- Types of Ratios- Simple Problems- Overview of

Proportions- Basic Terms-Properties of Proportion-Simple problems on Direct and Inverse proportion

MODULE 2: Theory Of Equations and Number System **14 Hrs**

Meaning and Types of Equations-Linear Equation – Meaning & Problems- Simultaneous Equation – Meaning and Problems with only two variables (Elimination method and Substitution method Only - Quadratic Equation – Meaning and Problems under Factorization and Formula method. Number System-Introduction – Natural Number Even Number, Prime, Rational and Irrational number Simple problems of HCF and LCM

MODULE 3: SET THEORY **10 Hrs**

Meaning- Representation of a Set-Types of Sets-Operations on Sets-Union Intersection-Disjoint Sets-Complement of a Set-Difference of Two Sets-Venn Diagrams- Properties of Set Operations-De-morgan's Law- Practical Problems on Union and Intersection of Two Sets

MODULE 4: BASIC CONCEPTS OF PERMUTATIONS AND COMBINATIONS **14 Hrs**

Introduction- - Fundamental principle of counting - Factorial Notation- Permutations- Permutation with Repetition -Permutation of Alike Objects - Permutation under Restriction- - COMBINATION- Relation between Permutation and Combination -Combinations under Restrictions- Combinations of Alike Objects

MODULE 5: Mathematical Finance **12 Hrs**

Definition of Interest and Other Terms- Simple Interest & Compound Interest-

Effective rate of Interest- Present Value and Future Value-Perpetuity- Annuity- Sinking Fund-Valuation of Bonds-Calculating of EMI- Simple problems

SKILLS DEVELOPMENT

1. Prepare a chart showing different types of ratios
2. Collect the total price of any two commodities with different quantities and calculate the price of each commodity using simultaneous equation methods.
3. By using imaginary data perform set operations and represent in Venn Diagram
4. By Selecting cricket team squad choose various combination of team of 11 and apply combination concepts.
5. Develop an Amortization Table for Loan Amount – EMI Calculation.

BOOKS FOR REFERENCE:

- Dr. Sancheti & Kapoor: Business Mathematics and Statistics, Sultan Chand
- G K Ranganath and T.V Narasimha Rao- Himalay publishing house
- K Ramachandra and Roopa -Quantitative Techniques for Business Decisions HPH
- S Rajesh Raja et.,al. Quantitative method for business decisions –KPH
- Veen and Seema Business Mathematics and Statistics –IK international Publications
- Saha: Mathematics for Cost Accountants, Central Publishers
- R.G. Saha & Others – Methods & Techniques for Business Decisions, VBH
- Zamarudeen: Business Mathematics, Vikas
- R.S Bhardwaj : Mathematics for Economics & Business
- Madappa, Mahadi Hassan, M. Iqbal Taiyab – Business Mathematics, Subhash
- G.R. Veena and Seema : Business Mathematics and Statistics I.K. Intl Publisher

Name of the Program: Bachelor of Commerce (B.Com.) Course

Code: CEVSIS

Name of the Course: ENVIRONMENTAL STUDIES

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
2	3	45

PEDAGOGY:

Teaching strategies: use of digital tools and platforms for teaching, learning and field/ disertation analysis, inquiry-based learning, group discussions, interactive lectures, quiz, group work, field - oriented studies, study trip, case studies and debates, hands on training.

COURSE OBJECTIVE:

The course is designed to introduce students to the basic Quantitative skills you will need to understand, analyse, and solve mathematical problems encountered in business and finance, and in investment decision making.

COURSE OUTCOMES:

CO1: Define the multidisciplinary approach and nature that is for productivity of different ecosystem and ecological dynamics, sustaining of natural resources

CO2: Explain the current status of natural resources, habitats and biodiversity

CO3: Describe the types of environmental pollution and control measures. environmental policies and practices

CO4: Interpret the human development and environmental threats

CO5: Summarize the environmental ethics, values and environmental movements in environmental conservation

SYALLABUS

UNIT - 1 Introduction to environmental studies:

Multidisciplinary nature of environmental studies, scope and importance : concept of sustainability and sustainable development, SDG goals

ECO SYSTEM:

Structure and function of ecosystem; energy flow in an ecosystem food chains, food webs and ecological succession.

Terrestrial ecosystem; forest ecosystem, grassland ecosystem, desert ecosystem

Aquatic ecosystem; ponds, streams, lakes, rivers, oceans, estuaries

UNIT- 2 Natural resources: renewable and nonrenewable resources

Land resources: Land use and land cover change; land degradation, soil erosion and desertification

Forest resources: types and scope: deforestation: causes and impacts due to mining dam building on environment, forests, biodiversity and tribal populations

Water resources: use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international and inter-state)

Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

Biodiversity and conservation: levels of biological diversity: genetic, species and ecosystem diversity: biogeographic zones of India.

Biodiversity patterns and global biodiversity hot spots. India as a mega-biodiversity nation: endangered and endemic species of India.

Threats to biodiversity: habitat loss, poaching invasions: conservation of biodiversity: in-situ and ex-situ conservation of biodiversity.

Unit-3 **Pollution**

Environmental pollution: types, causes, effects and controls: air, water, soil and noise pollution, nuclear hazards and human health risks.

Solid waste: management and control measures of urban and industrial waste worth case studies.

Environmental policies and practices: climate change, global warming, ozone layer depletion, acid rain and impact6s on human communities and agriculture

Environmental laws: environmental protection act: air (prevention & control of pollution) act: water (prevention and control of pollution) act: wildlife protection act: forest conservation act: international agreements: Montreal and Kyoto protocols and convention biological diversity (CBD)

Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.

UNIT- 4 Human communities and the environment

Human population growth: impacts on environment, human health and welfare.

Resettlement and rehabilitation of projects affected persons: case studies.

Disaster management: floods, earthquakes, cyclone and landslides with case studies

Environmental movements: chipko, silent valley, bishnois of Rajasthan.

Environmental ethics: ecological, economic, social, ethical, aesthic and informational value, role of Indian and other religions and cultures in environmental conservation

Environmental communication and public awareness, case studies - **CNG Vehicles in Delhi**

Field work - field report to be submitted

SKILL DEVELOPMENT

- List out the sustainable activities of the daily life
- Initiate the green activities in the campus
- Prepare a report on the concept of green initiatives by the government
- Make a report about the tribal population rights

BOOKS FOR REFERENCE

- Bharucha E (2015). textbook of environmental studies
- Carson .R (2002). silent spring. Houghton Mifflin Harcourt.

- Climate change:P science and politics. (2021). A centre for science and environment (CSE) publication, new delhi.
- Gadgil .M and Guha R(1993). this fissural land: an ecological history of India. Unvi. Of California press
- Rosencranz A, Divan, S and Noble , M L (2001) environmental law policy in India.
- World commission on environment and development (1987), our common future, oxford university press.
- McNeil, John R (2000), something new under the sun: an environmental history of twentieth century