

Bachelor of Management Studies

COMMON POOL OF GENERIC ELECTIVES (GE) COURSES

GENERIC ELECTIVES (GE-7): FAMILY BUSINESS MANAGEMENT

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/Practice		
Family Business and Management (GE 7)	4	3	1	0	CLASS XII PASS	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- Students will develop an understanding of the dynamics of joining a family firm
- Explore and secure values and opportunities within the family business.

Learning outcomes

The Learning Outcomes of this course are as follows:

- To understand the various concepts of family business.
- Plan the growth and sustainability of family business.
- Describe the government support available for business.

SYLLABUS OF GE-7

Unit - 1: Family-Owned Business

(12 Hours)

Define family-owned business, nature, importance, and uniqueness of family business. Classic systems of a family enterprise (the family system, the ownership system, the enterprise system). Governance systems (enterprise governance, family governance - family council, owner governance - ownership form); creating a governance structure. Systems approach to family interaction (triangle, scapegoat, homeostasis, boundaries). Great families in business: building trust and commitment.

Unit -2: Diagnosing Family Entanglements

(12 Hours)

Family genogram. Developing Business family's genogram, the role of genograms and family messages to understand the family system. Using the Genogram to identify family scripts and themes. Family emotional intelligence - The ECI-U Model. Circumplex model of marriage and family systems (understanding family cohesion and family flexibility), Application of

circumplex model, clinical rating scale and developing circumplex model.

Unit - 3: Family-Owned Business and Readiness (12 Hours)

Personal Readiness (Identity, Change in Capacity, Temperament, Health), System Readiness – Family (Spouse, Children, Extended Family), System Readiness – Business (Enterprise Itself, Owners, Successors), System Readiness – Social and Cultural Context (Community and Cultural Norms).

Unit - 4: Succession Planning in Family-Owned Business (9 Hours)

Succession Planning. Advice to successes and successor. Moores and Barrett's 4L framework of family business leadership. the future of family business: new leaders of the evolution - three states of evolution - continuity and culture - changing the culture - commitment planning - organic competencies and business's future - thriving through competition - institutionalizing the change.

Practical component (if any) - NIL

Essential/recommended readings

1. Leach, P.: Family Business: The Essentials, Profile Books Ltd.
2. Sudipt Dutta, Family Business in India, Sage Publications, 1997.

Suggested readings

1. DeVries, M. F. K., & Carlock, R. S. (2010). Family Business on the Couch: A Psychological Perspective. John Wiley & Sons.
2. Hall, A. (2012). Family business dynamics: a role and identity-based perspective. Edward Elgar Publishing.
3. Gimeno, A., Bualenas, G. and Coma-Cros, J., Family Business Models.
4. De Pontet, S. B. (2017). Transitioning from the Top: Personal Continuity Planning for the Retiring Family Business Leader. Springer.
5. Liebowitz, B. (2011). The family in business: The dynamics of the family-owned firm. Business Expert Press.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-8): FINANCIAL PLANNING FOR INDIVIDUALS

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Financial Planning For Individuals (GE 8)	4	3	1	0	CLASS XII	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- To equip students with the knowledge and practical understanding of important dimensions of managing one's personal finance.
- To enable students' understand and plan their tax liabilities, investments, insurance coverage, and retirement.

Learning outcomes

The Learning Outcomes of this course are as follows:

- Understand the fundamentals of Personal Financial Planning.
- Learn the basics of managing personal tax liabilities.
- Able to ascertain and choose appropriate insurance policies for managing personal risks.
- Appreciate the importance of choosing the right investments for managing personal finance.
- Learn the basic concepts and underlying principles for Retirement Planning.

SYLLABUS OF GE-8

Unit -1: Basics of Personal Finance and Tax Planning (12 Hours)

Understanding Personal Finance. Rewards of Sound Financial Planning. Personal Financial Planning Process. Personal Financial Planning Life Cycle. Making Plans to Achieve Your Financial Goals. Common Misconceptions about Financial Planning. Personal Tax Planning – Fundamental Objectives of Tax Planning, Tax Structure in India for Individuals, Common Tax Planning Strategies – Maximizing Deductions, Income Shifting, Tax-Free and Tax- Deferred Income.

Unit -2: Managing Insurance Needs (12 Hours)

Insuring Life – Benefits of Life Insurance, Evaluating need for Life Insurance, Determining the Right Amount of Life Insurance. Choosing the Right Life Insurance Policy – Term Life Insurance,

Whole Life Insurance, Universal Life Insurance, Variable Life Insurance, Group Life Insurance, Other Special Purpose Life Policies. Buying Life Insurance – Compare Costs and Features, Select an Insurance Company, and Choose an Agent. Life Insurance Contract Features. Insuring Health – Importance of Health Insurance Coverage. Making Health Insurance Decision – Evaluate Your Health Care Cost Risk, Determine Available Coverage and Resources, Choose a Health Insurance Plan. Types of Medical Expense Coverage. Policy Provisions of Medical Expense Plans. Property Insurance – Basic Principles, Types of Exposure, Principle of Indemnity, and Coinsurance.

Unit -3: Managing Investments

(12 Hours)

Role of Investing in Personal Financial Planning, Identifying the Investment Objectives, Different Investment Choices. The Risks of Investing, The Returns from Investing, The Risk-Return Trade-off. Managing Your Investment Holdings – Building a Portfolio of Securities, Asset Allocation and Portfolio Management, Keeping Track of Investments. Investing in Equity – Common Considerations, Key Measures of Performance, Types of Equity Stock, Market Globalization and Foreign Stock, Making the Investment Decision. Investing in Bonds – Benefits of Investing in Bonds, Bonds Versus Stocks, Basic Issue Characteristics, The Bond Market, Bond Ratings. Investing in Mutual Funds and Exchange Traded Funds (ETFs) – Concept of Mutual Funds and ETFs, Benefits of Investing in Mutual Funds or ETFs, Some Important Cost Considerations, Services Offered by Mutual Funds, Selecting appropriate Mutual Fund and ETF investments, Evaluating the performance of Mutual Funds and ETF.

Unit 4: Investing in Real Estate and Retirement Planning

(9 Hours)

Investing in Real Estate – Some Basic Considerations. Modes of Real Estate Investment – Raw Land, Commercial Properties, Residential Properties, Real Estate Investment Trusts (REITs) and Infrastructure Investment Trust (InvITs).

Planning for Retirement – Role of Retirement Planning in Personal Financial Planning, Pitfalls to Sound Retirement Planning, Estimating Income Needs, Sources of Retirement Income

Practical component (if any) - NIL

Essential/recommended readings

1. Randall S. Billingsley, Lawrence J. Gitman, and Michael D. Joehnk (2017): Personal Financial Planning. Cengage Learning.
2. Susan M. Tillery, and Thomas N. Tillery: Essentials of Personal Financial Planning. Association of International Certified Professional Accountants.

Suggested readings -

1. Introduction to Financial Planning (4th Edition 2017) – Indian Institute of Banking & Finance.
2. Sinha, Madhu. Financial Planning: A Ready Reckoner. July 2017. Mc Graw Hill

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GENERIC ELECTIVES (GE-9) INTRODUCTION TO INTERNATIONAL BUSINESS

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Introduction to International Business (GE 9)	4	3	1	0	CLASS XII PASS	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- The course would introduce students to international trading and investment environment
- Create awareness about emerging issues such as outsourcing and sustainable development in the context of international business.

Learning outcomes

The Learning Outcomes of this course are as follows:

- Understand the process of globalization and its impact on growth of international business.
- Appreciate the changing dynamics of the diverse international business environment.
- Analyse the theoretical dimensions of international trade as well as intervention measures adopted.
- Describe the forms of foreign direct investment and analyse benefits and costs of FDI.
- Demonstrate awareness about emerging issues in international business such as outsourcing and sustainable development.

SYLLABUS OF GE-9

Unit 1: Introduction to International Business (9 Hours)

Globalization – concept, significance and impact on international business; international business contrasted with domestic business; complexities of international business; internationalization stages and orientations; modes of entry into international businesses.

Unit 2: International Trade (12 Hours)

Theories of international trade – Theory of Absolute Advantage theory, Theory of Comparative Advantage, Factor Proportions theory and Leontief paradox, Product Life Cycle theory, Theory of National Competitive Advantage; Instruments of trade control.

Unit 3: International Business Environment (12 Hours)

Role of political and legal systems in international business; cultural environment of

international business; implications of economic environment for international business. International Economic Organisations: WTO- functions, structure and scope; World Bank and IMF.

Unit 4: International Finance and Contemporary Issues

(12 Hours)

Types of FDI - Greenfield investment, Mergers & Acquisition, strategic alliances; benefits and drawbacks of FDI. Overview of Exchange Rate systems. Contemporary issues in international business: Outsourcing and its potential for India; international business and sustainable development.

Practical component (if any) - NIL

Essential/recommended readings

1. Bennett, R. International Business, Delhi: Pearson.
2. Cavusgil, S. T., Knight, G. & Riesenberger. International Business: Strategy, Management and the New Realities. Pearson India.
3. Charles, W L Hill & Jain, A. K. International Business, New Delhi: Tata McGraw Hill.

Suggested readings

1. Daniels, J. D., Radenbaugh, L. H. & Sullivan, D. P. International Business, Pearson Education.
2. Griffin, R. W & Pustay, M. W. International Business - A Managerial Perspective. Prentice Hall.
3. Menipaz, E., Menipaz A. and Tripathi S.S. International Business : Theory and Practice. New Delhi. Sage Publications India Pvt. Ltd.

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GENERIC ELECTIVES (GE-10) PERSONAL SELLING

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Personal Selling (GE 10)	4	3	1	0	CLASS XII PASS	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- To familiarize the students with the concept and practice of personal selling process, techniques and methods in the modern organizational setting.

Learning outcomes

The Learning Outcomes of this course are as follows:

- Understand the concept of personal selling and related terms.
- An in-depth understanding of various stages in the selling process and the catalytic role of sales persons in the effective functioning of an organization.
- Learn some of the tools and techniques of selling process.

SYLLABUS OF GE-10

Unit 1: Personal Selling

(12 Hours)

An overview of personal selling; functions of a sales person, characteristics of a sales person, Sales as a career. Importance and role of Personal Selling, Building trust and Sales Ethics.

Unit 2: Theories of Selling

(9 Hours)

Personal Selling situations; Theories: AIDAS, Right set of circumstances theory, buying formula theory, Behavioural Equation Theory.

Unit 3: Selling Process

(15 Hours)

Prospecting: Need and Methods; Pre approach: Sales Knowledge; Sales presentation: methods, elements, the approach; Handling Objections: categories and techniques; Closing the sale: techniques; Post sale follow up, Communication for Relationship Building.

Unit IV: Sales Territory

(9 Hours)

Sales territory concept, reasons for establishing sales territories, procedure for setting up sales territories.

Practical component (if any) - NIL

Essential/recommended readings

1. Charles Futrell: Fundamentals of Selling, McGraw Hill (13th Edition).
2. Still, Cundiff & Govani: Sales Management, Prentice Hall of India (2nd Revised Edition).
3. Charles Futrell, ABC's of Relationship Selling through Service", McGraw Hill Publications (Latest Edition).

Suggested readings

1. Rolph E. Anderson, Essentials of personal selling: the new professionalism, Prentice Hall, 1995 (3rd Edition)

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GENERIC ELECTIVES (GE-11) BASICS OF HUMAN RESOURCE

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Basics of Human Resource Management (GE 11)	4	3	1	0	CLASS XII PASS	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- The objective of this course is to help the students to develop an understanding of the concept and functions of human resource management.
- The course also aims to explore the recent practices and trends in human resource management.

Learning outcomes

The Learning Outcomes of this course are as follows:

- Enhance the understanding of role of human resource management and explore the recent trends of human resource management.

- Develop an understanding of human resource management functions and practices.
- Enhance awareness of certain important issues in industrial relations.

SYLLABUS OF GE-11

Unit -1: Introduction to Human Resource Management (9 Hours)

Introduction, Concept and Importance of Human Resource Management, Functions and Role of Human Resource Management; Globalization and its Impact on HR trends of Human Resource in India; Work life balance; Human Resource Information Systems; Overview of International HRM polycentric geocentric ethnocentric approaches.

Unit -2: Recruitment and Selection (12 Hours)

Human Resource Planning, Need and process, HR Forecasting Techniques Skill inventories; Job analysis-Uses, methods, Job description & Job specifications; Recruitment: Factors affecting recruitment, internal & external sources; Selection process; Orientation: Concept and process.

Unit -3: Training and Development (12Hours)

Training: Concept, Training Process, Methods of training; Management development: Concept & Methods; Performance Management System: Concept, uses of performance appraisal, performance management methods; Career planning: Importance and stages. Compensation: Components of pay, factors influencing compensation, steps in determining compensation, job evaluation; Incentives: Importance and types; Benefits: Need, types of benefits.

Unit -4: Industrial Relations (12 Hours)

Introduction to Industrial Relations; Industrial disputes: concept, causes & machinery for settlement of disputes; Employee Grievances- concept, causes, grievance redressal procedure; Discipline-concept, aspects of discipline & disciplinary procedure; Collective bargaining: concept, process, problems, essentials of effective collective bargaining.

Practical component (if any) - NIL

Essential/recommended readings

1. Dessler Gary, Warkkey Biju, *Human Resource Management*, Pearson.
2. Decenzo and Robbins, *Fundamentals of Human Resource Management*, John Wiley and sons.
3. Chhabra T.N, *Human Resource Management Concept & Issues*, Dhanpat Rai and company.

Suggested readings

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time

GENERIC ELECTIVES (GE-12) ETHICS AND GOVERNANCE IN BUSINESS

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Ethics and Governance in Business (GE 12)	4	3	1	0	CLASS XII PASS	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- The objective of this paper is to develop skills for recognizing and analyzing ethical issues in business and to equip students with moral reasoning for ethical decision making.
- The course aims to acquaint the students with basic concept and standards of corporate governance.

Learning outcomes

The Learning Outcomes of this course are as follows:

- Determining ethical dilemmas in common business situation and finding ways to solve it.
- Examine the role of ethics in different functional areas of business.
- Understand the importance of corporate governance in ensuring fairness, accountability and transparency in the organization.

SYLLABUS OF GE-12

Unit -1: Business Ethics

(9 Hours)

Introduction, meaning of ethics, moral and ethics, types of business ethical issues, why ethical problems occur in business, ethical dilemmas in business; Normative theories – Egoism, Utilitarianism, Ethics of duty, Ethics of rights and justice, Virtue ethics and ethics of care; Gandhian Ethics and its relationship with normative theories.

Unit -2: Ethical Issues in Functional Areas of Business

(15 Hours)

Finance: ethical issues in accounting, finance, banking, takeovers; Whistle blowing: kinds of whistle blowing, whistle blowing as morally prohibited, permitted and required, corporate disclosure; Insider trading.

HRM: Discrimination, affirmative action and reverse discrimination; Inclusion and preferential hiring; Sexual harassment.

Marketing: Green marketing; Product recalls; Ethics and Advertising.

Production: Safety and acceptable risk,, Product safety and corporate liability; Green production..

Information technology : Cyber-crime; Privacy and internet ethics

Unit -3: Corporate Governance (12 Hours)

Concept, need to improve corporate governance standards, pillars of good governance; Role played by the Government as a regulator to improve corporate governance with reference to provisions introduced in the Companies Act. 2013; Board of Directors and their role in governance; Duties and responsibilities of auditors; Rights and privileges of shareholders, investor's problem and protection; Corporate governance rating process and parameters.

Unit -3: Corporate Governance Models and Committees (9 Hours)

Models of corporate governance; Committees on Corporate Governance: UK scenario (Cadbury Committee), US scenario (Sarbanes Oxley Act), OECD principles; Indian experience: An overview of recommendations of corporate governance committees in India - CII Code of Best Practices, Kumar Mangalam Birla Committee, Naresh Chandra Committee, Narayan Murthy Committee, Kotak Committee, SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015 with reference to composition and role of Board of Directors, and Role of independent directors

Practical component (if any) - NIL

Essential/recommended readings

1. Fernando, A.C., "Business Ethics and Corporate Governance", Pearson Education India. (Chapter 1, 2)
2. Velasquez, Manuel G., "Business Ethics- Concepts and Cases", PHI. (Chapter 1, 2)
3. Fernando, A.C., "Business Ethics – An Indian Perspective", Pearson. (Chapter 1 to, 4; 9 to 12, 14,15,18))
4. Crane, Andrew and Matten, Dirk., "Business Ethics", Oxford. (Chapter 1, 7, 8)
5. Ghosh, B N., "Business Ethics and Corporate Governance," Mc Graw Hill. (Chapter 8, 9, 11)
6. De George, Richard T., "Business Ethics", Pearson. (Chapter 3, 4, 13 to 16)
7. Sharma, J. P., "Corporate Governance, Business Ethics and CSR", Ane Books. (Chapter 12)
8. Stanwick, Peter and Stanwick, Sarah, " Understanding Business Ethics", Sage Publications. (Chapter 10)
9. Arnold, Denis G., Beauchamp, Tom L., and Bowie, Norman E., " Ethical Theory and Business", Pearson Education (Chapter 7)

Suggested readings

1. Fernando, A.C.- Business Ethics, Prentice Hall, Latest Edition.
2. Crane, Andrew and Matten, Dirk - Business Ethics, Oxford Publications.
3. Davies, Adrain – Best Practices in Corporate Governance (Gower), Latest Edition.
4. Fernando, A.C. – Corporate Governance :Principles, Policies, and Practices (Pearson Education).

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time

Commerce

Generic Elective Course- 2.1(GE-2.1): Communication in Management

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Communication in Management GE-2.1	4	3	1	0	Pass in XII	NIL

Learning Objectives

The course aims to train students to enhance written as well as oral communication in management. This course will help students in understanding the principles and techniques of communication. Also, to understand the use of electronic media for communication.

Learning Outcomes

After completion of the course, learners will be able to:

1. Analyse the need of communication in management.
2. Interpret the need for effective listening.
3. Examine the concepts of written and spoken communication.
4. Demonstrate the role of group discussion and interviews.
5. Summarise business reports and proposals.

SYLLABUS OF GE-2.1

Unit 1: Introduction to Communications (9 hours)

Meaning and Objectives of Communication. Process of Communication. Forms of communication: formal and informal; upward, downward, diagonal and lateral. Role of a Manager. Barriers to effective communication and overcoming them. Effectiveness in Managerial Communication. Make use of grapevine. Role of verbal and non-verbal communication; interpreting non-verbal communication.

Unit 2: Listening (9 hours)

Meaning and objectives of Listening, Features of a good listener. Analysing poor listening. Effective listening skills and barriers to effective listening.

Unit 3: Spoken communication (9 hours)

Oral Presentation: Planning, structuring and delivering presentation. Handling queries. Challenges and etiquettes associated with Telephonic, web-conferencing and Teleconferencing communication.

Written communication: Principles and steps of effective writing. Seven Cs of Letter writing. Business Letters: inquiries, placing orders, sales letters. Job applications and resumes. Memos.

Unit 4: Group Discussion (9 hours)

Nature, forms and classification of Groups. Role of managers in group discussions. Effective group decision making. Group conflict.

Interviews: Interviewing, Nature and types of Interviewing Questions. Verbal and Non-Verbal aspects of interviewing. Types of Interviews: structured and unstructured; group and depth.

Unit 5: Meetings (9 hours)

Planning and conducting meetings. Meeting Process. Ways to effectively lead a meeting. Evaluating meetings and drafting minutes of a meeting.

E-mail, Business Reports and Proposals: E-mail Etiquettes, smartness and presentation. Business Reports and proposals: Writing and purpose.

Practical Exercises

The learners are required to:

1. Analyse the communication channel in your educational institution.
2. Analyse the barriers to effective listening in your educational institution.
3. Organise webinars and draft mock business letters.
4. Participate in group discussions and mock interviews.
5. Conduct a meeting in your institution and draft minutes of the meeting.

Suggested Readings

- Bhatia, R. C. (2008). *Business Communication*. New Delhi: Ane Books Pvt. Ltd.
- Bell, R. & Martin, J. (2014). *Managerial Communication*. Business Expert Press.
- Kaul, A. (2015). *Effective Business Communication* (2nd ed.). PHI learning.
- Lesikar, R. V. & Flatley, M. E. (2001). *Basic Business Communication Skills for Empowering the Internet Generation*. New Delhi: Tata McGraw Hill Publishing Company Ltd.
- Ludlow, R. & Panton, F. (1992). *The Essence of Effective Communications*. New Delhi: Prentice Hall of India Pvt. Ltd.
- Meyer C, D. (2021). *Communicating for Results*, Oxford University Press.

- Owen, H., David, D. & Dennis, T. (1999). *Communication in Management*. Gower Publishing, Ltd.
- Quintanilla, Kelly, M. (2021). *Business and Professional Communication*. 4thed. Sage Textbook.
- Raman, M. & Singh, P. (2012). *Business Communication*. Oxford University Press.
- Scot, O. (2004). *Contemporary Business Communication*. New Delhi: Biztantra.

Note: Suggested readings will be updated by the Department of Commerce and uploaded on Department's website.

Generic Elective Course- 2.2(GE-2.2): Financial Management for Beginners

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Financial Management for Beginners GE- 2.2	4	3	1	0	Pass in XII	NIL

Learning Objectives

The course aims to familiarize the students with the basic concepts of financial management.

Learning Outcomes

After completion of the course, learners will be able to:

1. Analyse the overview of finance, the concept of time value of money and risk & return.
2. Perform financial analysis with the aid of various financial statements, and analyse the capital budgeting process and techniques.
3. Analyse the cost of capital, capital structure and leverage.
4. Examine dividend & working capital dividend decisions.
5. Perform valuation of securities.

SYLLABUS OF GE-2.2

Unit 1: Introduction (9 hours)

Meaning and importance of finance. Time value of money (Compounding & Discounting), Risk & Return. Alternative investment options, Sources of long term financing and short term financing.

Unit 2: Financial Analysis & Capital Budgeting (9 hours)

Financial statements- income statement, balance sheet, Ratio analysis: meaning, significance and limitations. Current ratio, quick ratio, absolute liquidity ratio, debt-equity ratio, interest coverage ratio, inventory turnover ratio, debtors turnover ratio, average collection period, creditors turnover ratio, average payment period, return on capital employed, return on equity, earnings per share, dividend per share, price-earning ratio.

Capital budgeting process, Capital budgeting techniques (Payback period, Discounted payback period, NPV, IRR).

Unit 3: Cost of Capital & Capital Structure (9 hours)

Concept of cost of capital and capital structure: Cost of debt capital, Cost of preference share capital, Cost of equity share capital, Weighted average cost of capital (WACC). Meaning of leverage. Operating leverage, Financial leverage, Combined leverage.

Unit 4: Dividend Decisions & Working Capital (9 hours)

Types of dividends, Dividend policies and factors affecting dividend policies. Stock-split and bonus Shares. Concept of working capital, its components and factors affecting working capital requirements.

Unit 5: Valuation of Securities (9 hours)

Types of risks and returns. Concept of valuation, Equity valuation & analysis, Bond valuation & analysis. Portfolio analysis.

Contemporary issues in finance.

Practical Exercises

The learners are required to:

1. Assess the present value of financial investments made by your family members.
2. Analyse the risk and return of financial securities listed on NSE/BSE.
3. Analyse the capital budgeting process of various companies.
4. Examine the capital structure of various companies from their annual reports.
5. Evaluate the dividend and working capital policy of various companies.
6. Perform valuation of financial securities using MS-EXCEL.

Suggested Readings

- Bhargav, B. K. (2015). *Finance For Non-Finance Managers*. Jaiko Publishing House.
- Chandra, P. (2017). *Finance Sense: Finance for Non-Finance executives*. Tata McGraw Hill.
- Gabriel, H. & Claude, V. (2008). *Finance for Non-Finance Managers*. Cengage Delmar Learning India Pvt. Ltd.
- Gene, S. (2003). *Finance for Nonfinancial Managers*. (Briefcase Books Series). Tata McGraw Hill.
- Joshipura, M. (2022). *Cases in Financial Management*. Sage Textbook
- Maheshwari, S. N. (2019). *Elements of Financial Management*. New Delhi: Sultan Chand & Sons.
- Maheshwari, S. N. (2013). *Financial Management – Principles & Practice*. New Delhi: Sultan Chand & Sons.

- Tripathi, V. (2021). *Basic Financial Management*. New Delhi: Taxmann Publication Pvt. Ltd.

Note: Suggested readings will be updated by the Department of Commerce and uploaded on Department's website.

Generic Elective Course- 2.3(GE-2.3): Sales Promotion

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Sales Promotion GE- 2.3	4	3	1	0	Pass in XII	Pass in Marketing for Beginners (GE- 1.3)

Learning Objectives

The course aims to familiarize the students with the basics of Sales Promotion and its importance in marketing.

Learning Outcomes

After completion of the course, learners will be able to:

1. Evaluate the importance of sales promotion in marketing.
2. Analyse the different forms of sales promotion.
3. Design different tools for sales promotion campaign and analyse the need of a particular tool.
4. Develop and evaluate sales promotion programs.
5. Analyse the ethical and legal aspects of sales promotion.

SYLLABUS OF GE-2.3

Unit 1: Introduction to Sales Promotion (12 hours)

Sales Promotion: Nature, meaning and importance of Sales Promotions; Significance of Sales Promotion in marketing; Misconception about sales promotion; Relationship marketing and Sales Promotion; Role of Sales Promotion in Integrated marketing communication.

Unit 2: Types of Sales Promotion (6 hours)

Different forms of Sales Promotions; Consumer-oriented Sales Promotion; Trade oriented Sales Promotion; and Sales force oriented Sales Promotion

Unit 3: Major tools of Sales Promotion (12 hours)

Sales Promotion tools including -Premiums, price offs, coupons, sampling, refunds and rebates, contest, games and lotteries, point of purchase; Displays and demonstrations; Conferences use; Trade fairs; Exhibition and fashion shows, Specialities and novelties, and recent prevalent tools -features, strength and limitations.

Unit 4: Developing sales promotion programmes (12 hours)

Pre-testing; implementation; evaluating the result and making necessary modifications

Unit 5: Ethical and legal aspects of sales promotion (3 hours)

Importance of ethics in sales promotion; Unethical practices and its consequences in Sales Promotion; Puffery or misrepresentation

Practical Exercises

The learners are required to:

1. Analyse the sales promotion campaign of different organisations.
2. Identify the different forms of sales promotions in various organisations.
3. Design different tools for sales promotion campaign for a hypothetical firm.
4. Develop a sales promotion programme for a hypothetical firm.
5. Analyse case studies concerning ethical and legal aspects on sales promotion.

Suggested Readings

- Kazmi, S. H. H. & Batra, S. K. (2009). *Advertising and sales promotion*. India: Excel Books.
- Kotler, P. & Keller, K.L. (2021). *A framework for marketing management*. (6th ed.). Pearson.
- Minahan, S. & Ogden-Barnes, S. (2015). *Sales Promotion Decision Making: Concepts, Principles, and Practice*. (1st ed.) United States: Business Expert Press.
- Mullin, R & Cummins, J. (2010). *Sales Promotion: How to Create, Implement and Integrate Campaigns that Really Work*. Paperback.
- Neslin, S. A., & Blattberg, R. C. (1990). *Sales Promotion: Concepts, Methods and Strategies*. United States: Prentice Hall.
- Quelch, J. A. (1989). *Sales promotion management*. Prentice Hall.

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Generic Elective Course- 2.4(GE-2.4): Computerised Accounting System

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Computerised Accounting System GE- 2.4	4	2	0	2	Pass in XII	Pass in Accounting for Everyone (GE- 1.4) OR Computer Applications in Business (GE -1.5)

Learning Objectives

This course aims to impart the skills needed for recording business transactions and producing final accounts by a non-commerce student using computerised accounting software.

Learning Outcomes

After completion of the course, learners will be able to:

1. Analyse the significance of accounting in an organisation.
2. Prepare and analyse financial statements.
3. Create a structure of a computerised accounting system for a business firm.
4. Record day to day business transactions in computerised accounting system
5. Evaluate the necessary adjustments for Goods and Service Tax (GST) while recording business transactions.
6. Generate various accounting reports for analysis and decision making.

SYLLABUS OF GE-2.4

Unit 1: Introduction to Accounting (2 hours)

Accounting – meaning, importance and need, its objectives and relevance to business establishments and other organisations, and individuals. accounting information: meaning, users and utilities, sources of accounting information. some basic terms –transaction, account, asset, liability, capital, expenditure & expense, income, revenue, gain, profit, surplus, loss, deficit. debit, credit, accounting year, financial year, financial accounting principles.

Unit 2: Recording of business transactions and preparation of financial statements (8 hours)

Features of recordable transactions and events; types of accounts: personal account, real account and nominal account; rules for debit and credit; double entry bookkeeping system, journalising transactions; preparation of ledgers; fundamental accounting equation; preparation of Trial Balance; concept of revenue and capital; preparation of Trading and Profit & Loss Account and Balance Sheet manually.

Unit 3: Computerised Accounting System (2 hours)

Computerised Accounting Systems: Basics of computerised accounting systems; difference between manual and computerised accounting system; overview of available software packages for computerised accounting; factors affecting selection of suitable computerised accounting software; procurement and installation of computerised accounting software.

Using any popular accounting software: create, select, shut, and delete a Company; setting security features of company; date and period features; configure and features settings; backup and restore data of a company.

Unit 4: Creating Masters and voucher entry (12 hours)

Creating Accounting Ledgers and Groups: Single create vs. multiple create, creating ledger under a group and entering opening balances

Creating Stock Items and Groups: Creating unit of measurement, creating stock groups using single or multiple create feature under an existing group, creating Stock items using single or multiple feature under an existing group,

Voucher Entry: Types of vouchers, selection of voucher type for transactions, vouchers entry, voucher number and date settings, voucher entry with more than one debit or credit accounts, editing and deleting a voucher and printing of voucher.

Unit 5: Taxation and Generating Reports (6 hours)

Taxation: Accounting for Goods and Service Tax

Generating Reports: Cash Book, ledger accounts, Trial Balance, Profit and Loss Account, Balance Sheet, Ratio analysis and Cash Flow Statement; exporting reports in pdf and excel formats.

Note:

The General Purpose Software referred in this course will be notified by the University Departments every three years. If the specific features, referred to in the detailed course above, are not available in that software, to that extent it will be deemed to have been modified.

X

Practical Exercises

The learners are required to:

1. Collect basic financial data of a reputed company to identify key accounts prepared by the enterprise and assess the importance of accounting.
2. Examine the annual reports of business organisations to find out whether applicable accounting standards (AS and IND AS) are complied with or not.
3. Analyse a firm's case study on computerised accounting and financial reporting.
4. Record periodic business transactions in computerised accounting system.
5. Collect information from business newspapers, periodicals, print and digital media related to financial statements released by the reputed companies and prepare a report on the basis of collected information.
6. Download one manufacturing, one service and one trading company's annual financial statement and report. Identify and compare the Goods and Services Tax of the companies.
7. Prepare financial statements using appropriate software.

Suggested Readings

- Charles, T. H., Gart L. S., John A. E., & Donna R. P. (2017). *Introduction to Financial Accounting*. (11th Ed.). London: Pearson.
- Goyal, B. K., & Tiwari, H. N. (2021). *Financial Accounting*. (9th Ed.). New Delhi: Taxmann Publications Pvt. Ltd.
- Kumar, A. (2021). *Corporate Accounting*. (7th Ed.). New Delhi: Singhal Publications.
- Lal, J., Srivastava, S., & Abrol, S. (2019). *Financial Accounting Text and problems*. New Delhi: Himalaya Publishing House.
- Davis, J. R., Alderman, C. W., & Robinson, L.A. (1990). *Accounting Information Systems: A cycle Approach*. (3rd Ed.). New Jersey: Wiley.
- Lt. Bhupinder. (2019). *Financial Accounting – Concepts and Applications*. (1st Ed.). New Delhi: Cengage.
- Monga, J. R., & Bahadur, R. (2021). *Financial Accounting: Concept and Applications*. (21st Ed.). New Delhi: Scholar Tech Press.
- Hurt, R. L. (2015). *Accounting Information Systems: Basic Concepts and Current Issues*. (3rd Ed.). New York: McGraw Hill.
- Sah, R. K. (2019). *Concept Building Approach to Financial Accounting*. (2nd Ed.). Cengage Learning India Pvt. Ltd.
- Sehgal, A., & Sehgal, D. (2010). *Fundamentals of Financial Accounting*. New Delhi: Taxmann Publications Pvt. Ltd.
- Nadhani, A. K. (2018). *Tally ERP 9 Training Guide*. New Delhi: BPB Publications.
- Satpathy, S. (2020). *Tally ERP 9 Book Advanced User*. Tally, New Delhi.
- Tulsian, P. C. (2016). *Financial Accounting*. (2nd Ed.). New Delhi: S.Chand.

Additional Resources:

Web resource: <http://tallyerp9book.com/TallyERP9-Book-Content.html>

Note: Suggested readings will be updated by the Department of Commerce and uploaded on Department's website.

Computer Science

**Common Pool of Generic Electives (GE) Courses
Offered by Department of Computer Sciences
Category-IV**

GENERIC ELECTIVES (GE-2a): Data Analysis and Visualization using Python

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course	Department offering the course
		Lecture	Tutorial	Practical/ Practice			
GE2a Data Analysis and Visualization using Python	4	3	0	1	Pass in Class XII	Pass in Class XII and knowledge of Python	Computer Science

Learning Objectives

This course is designed to introduce the students to real-world data analysis problems, their analysis and interpretation of results in the field of exploratory data science using Python.

Learning outcomes

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

- Apply descriptive statistics to obtain a deterministic view of data
- Apply basic and advanced level statistical function on data
- Perform data handling using Numpy arrays
- Do data cleaning and transformation before extracting useful information
- Visualize data for ease of understanding the revealed information

SYLLABUS OF GE-2a

UNIT – I & II (3 Weeks)

Introduction to basic statistics and analysis: Fundamentals of Data Analysis, Statistical foundations for Data Analysis, Types of data, Descriptive Statistics, Python Libraries: NumPy, Pandas, Matplotlib

Array manipulation using NumPy: NumPy array: Creating NumPy arrays, various data types of NumPy arrays

UNIT – I & II (3 Weeks)

Introduction to basic statistics and analysis: contd..

Correlation and covariance, Linear Regression, Statistical Hypothesis Generation and Testing

Unit 2 Array manipulation using Numpy: contd..

Indexing and slicing, swapping axes, transposing arrays, data processing using Numpy arrays

UNIT – III (5 Weeks)

Data Manipulation using Pandas: Data Structures in Pandas: Series, Data Frame, Index objects, loading data into Panda's data frame, Working with Data Frames: Arithmetics, Statistics, Binning, Indexing, Reindexing, Filtering, Handling missing data, Hierarchical indexing, Data wrangling: Data cleaning, transforming, merging and reshaping

UNIT – IV (4 Weeks)

Plotting and Visualization: Using Matplotlib to plot data: figures, subplots, markings, color and line styles, labels and legends, Plotting functions in Pandas: Lines, bar, Scatter plots, histograms, stacked bars, Heatmap

Practical component (if any) -

Use data set of your choice from Open Data Portal ([https:// data.gov.in/](https://data.gov.in/), UCI repository) or load from scikit, seaborn library for the following exercises to practice the concepts learnt.

1. Load a Pandas dataframe with a selected dataset. Identify and count the missing values in a dataframe. Clean the data after removing noise as follows
 - a. Drop duplicate rows.
 - b. Detect the outliers and remove the rows having outliers
 - c. Identify the most correlated positively correlated attributes and negatively correlated attributes
2. Import iris data using sklearn library or (Download IRIS data from: <https://archive.ics.uci.edu/ml/datasets/iris> or import it from sklearn.datasets)
 - a. Compute mean, mode, median, standard deviation, confidence interval and standard error for each feature
 - b. Compute correlation coefficients between each pair of features and plot heatmap
 - c. Find covariance between length of sepal and petal
 - d. Build contingency table for class feature
3. Load Titanic data from sklearn library , plot the following with proper legend and axis labels:
 - a. Plot bar chart to show the frequency of survivors and non-survivors for male and female passengers separately
 - b. Draw a scatter plot for any two selected features
 - c. Compare density distribution for features age and passenger fare

- d. Use a pair plot to show pairwise bivariate distribution
4. Using Titanic dataset, do the following
 - a. Find total number of passengers with age less than 30
 - b. Find total fare paid by passengers of first class
 - c. Compare number of survivors of each passenger class

Project students are encouraged to work on a good dataset in consultation with their faculty and apply the concepts learned in the course.

Essential/recommended readings

1. McKinney W. *Python for Data Analysis: Data Wrangling with Pandas, NumPy and IPython*. 2nd edition, O'Reilly Media, 2018.
2. Molin S. *Hands-On Data Analysis with Pandas*, Packt Publishing, 2019.
3. Gupta S.C., Kapoor V.K., *Fundamentals of Mathematical Statistics*, Sultan Chand & Sons, 2020.

Suggestive readings

- (i) Chen D. Y, *Pandas for Everyone: Python Data Analysis*, Pearson, 2018.
- (ii) Miller J.D. *Statistics for Data Science*, Packt Publishing, 2017.

GENERIC ELECTIVES (GE-2b): Data Analysis and Visualization using Spreadsheet

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
GE2b Data Analysis and Visualization using Spreadsheet	4	3	0	1	Pass in Class XII and knowledge of Spreadsheet	Computer Science

Learning Objectives

This course is designed to inculcate statistical thinking about data to the students who have studied Mathematics up to Class 10th ONLY. It gently introduces the students to basic statistics, and builds gradually to cover advanced functionalities for data analysis in spreadsheets. The objective is to enhance the knowledge of statistics and enable students to

make sense of data by analyzing and visualizing it using spreadsheets, interpreting the results and gaining insights.

Learning outcomes

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

- Analyze and visualize data using spreadsheets
- Apply basic and advanced level statistical functions in spreadsheets
- Gain practical, hands-on experience of data analysis using spreadsheet

SYLLABUS OF GE-2b

UNIT – I (3 Weeks)

Introduction to Basic Statistics

Fundamentals of Data Analysis, Statistical foundations for Data Analysis, Types of data, Descriptive Statistics, Correlation and covariance, Linear Regression.

UNIT – II (5 Weeks)

Data Handling

Spreadsheet concepts, managing worksheets, formatting cells, entering data, Handling operators in formula, Cell referencing and naming of cells and cell ranges, Sorting, Multilayer sorting, Data validation, Find and Replace, Paste special, Filter and advanced filter, Formatting as table, Pivot tables, Formulae vs functions, Cell formulae vs Array formulae.

Mathematical functions, Statistical functions, Logical functions, Date and Time functions, Lookup and reference: Hlookup, and Vlookup, Index and Match functions, Text functions.

What-if-analysis: Goal-seek, Data tables, Scenario manager.

UNIT – III (4 Weeks)

Data Analysis

Explore a data model: its content, and its structure, using the Power Pivot add-in. Learning DAX formula language. Create calculated fields and calculated measure for each cell, filter context for calculation, and explore several advanced DAX functions.

Cube formulas to retrieve data from data model.

UNIT – IV (3 Weeks)

Data Visualization

Different types of charts including Pivot charts: Column, Line, Pie, Bar, Scatter charts. Fine tuning of charts: Chart Elements, Chart Styles, Chart Filters, Box Plot.

Practical component (if any)

1. In a meeting of a marketing department of an organization it has been decided

that price of selling an item is fixed at Rs. 40. It was resolved to increase the selling of more items and getting the profit of Rs. 50000/-. Use Goal Seek to find out how many items you will have to sell to meet your profit figure.

2. Create worksheet related to crop production of various crops in Indian states in last five years (wheat, rice, pulses, soya-bean, and cane-sugar etc).
 - i) Make a bar chart
 - ii) Make a pie chart
 - iii) Make a box plot
3. Study and perform the various DAX functions to analyse the data.
4. Create workbook related to sales of Business Company having various products in last four quarters for 10 sales persons.
 - i) Make a line graph to show the growth/decline in the sales
 - ii) Show the graph of each sales person sales
 - iii) Find the two sales persons done in last 2 quarters
 - iv) Find the sales persons consistent in last four quarters
 - v) Find the most popular product of the company and the current popular product of company.
5. Create a Pivot-table showing the Customer Names who placed orders with GSS during 2019-2022. For each customer, also show the total number of orders, Total Sales, and Total Profit. Add a Slicer or a Filter that can be used to show the information specifically for each Customer Segment. Use information from the Pivot-table to answer the following questions (Hint: Filter and sort the data in the Pivot-table to locate the answer):
 - i) Which small business customer had the highest sales?
 - ii) Which corporate customer placed the greatest number of orders in 2019-2022? How many orders were placed by the corporate customer?
 - iii) Which consumer customer was the most profitable one?
 - iv) What is the sales figure of the least profitable home office customer?
6. Consider the following worksheet: (enter 5 records)

FULL NAME	GRADE 1/2/3	BASIC SALARY	HRA	PF	GROSS	NET	VA	VA>HRA

HRA is calculated as follows:

Grade HRA (% of basic)

1 40%

2	35%
3	30%

PF is 8% for all grades

VA is 15000, 10000, 7000 for Grades 1, 2 and 3.

Gross=Basic + HRA+VA

Net=Gross - PF

- i) Find max, min and average salary of employees in respective Grade.
 - ii) Count no. of people where VA>HRA
 - iii) Find out most frequently occurring grade.
 - iv) Extract records where employee name starts with “A” has HRA>10000
 - v) Print Grade wise report of all employees with subtotals of net salary and also grand totals.
 - vi) Use subtotal command.
 - vii) Extract records where Grade is 1 or 2 and salary is between 10000 and 20000 both inclusive.
7. Create workbook related to sales of Business Company having various product in last ten quarters for 20 sales persons. Perform the following on workbook:
- i) Create and modify a Pivot-table
 - ii) Apply Pivot-table styles and formatting
 - iii) Filter a Pivot-table
 - iv) Insert a slicer to filter a Pivot-table
 - v) Create a Pivot Chart
8. Create a PivotTable showing Total Sales breakdown by Region, Product Category, and Product Sub-Category. Use information from the PivotTable to answer the following questions:
- i) What was the Total Sales figure included in this data set?
 - ii) Which Product Category had the highest sales?
 - iii) Which Region had the lowest sales?
 - iv) What was the Total Sales of Appliances in Delhi?
9. You are required to prepare a payroll statement in the given format making maximum use of cellreferencing facility:

Code	Name	Category	Is HRA to be Paid	Basic	DP	DA	HRA	TA	CCA	Gross
1			Y							
2			N							
	Total									

Required:

- Basic salary (Allow any Basic salary in the range of Rs.10000-35000)
- DP is 50% of Basic Salary.
- DA (as a Percentage of Basic + DP) is more than 35000 then 40% of basic else 30% of basic.
- HRA is to be paid @ 40% of (Basic plus DP) to those whom HRA payable is yes.
- TA is to be paid @ Rs. 800 PM if Basic Salary is Less than Rs.12000, otherwise the TA is Rs. 1000 PM)
- CCA is to be paid @ Rs. 300 PM if Basic Salary is less than Rs.12000/- otherwise the CCA is Rs. 500 PM)
- Gross salary is the sum of Salary and all other allowances
- Deduction: a) GPF 10% of (Basic +DP) subject to a minimum of Rs.2000/- b) IT 10% of Gross Salary
- Net salary is Gross salary minus total deductions.

10. Consider the following worksheet for APS 1st year students:

S.No.	Name	Physics	Chem	Bio	Maths	CS	Total	%	Grade
1									
2									
3									
4									
5									

The value of Grade is calculated as follows:

If % ≥ 90	Grade A
If % ≥ 80 & < 90	Grade B
If % ≥ 70 & < 80	Grade C
If % ≥ 60 & < 70	Grade D

Otherwise, students will be declared fail.

- i) Calculate Grade using if function
- ii) Sort the data according to total marks
- iii) Apply filter to display the marks of the students having more than 65% marks.
- iv) Enter the S.No. of a student and find out the Grade of the student using VLOOKUP.
- v) Extract all records where name
 - a) Begins with "A"
 - b) Contains "A"
 - c) Ends with "A"

Essential/recommended readings

1. Gupta, S.P., *Elementary Statistical Methods*, Sultan Chand and Sons, New Delhi, 2017.
2. Goldmeier, J., *Advanced Excel Essentials*, Apress, 2014.
3. Slager, D., *Essential Excel 2016: A Step-by-Step Guide*, Apress, 2016.
4. Valerie M. Sue and Matthew T. Griffin, *Data Visualization and Presentation with Microsoft Office*, SAGE, 2016.
5. Schmuller, J., *Statistical Analysis with Excel for Dummies*, 4th edition., Wiley India Pvt Ltd., 2020.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

Economics

Category-IV

COMMON POOL OF GENERIC ELECTIVES (GE) COURSES OFFERED BY DEPARTMENT OF ECONOMICS

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
GENERIC ELECTIVES (GE-4): PRINCIPLES OF MACROECONOMICS I						
		Lecture	Tutorial	Practical/ Practice		
Principles of Macroeconomics I ECON026	4	3	1	0	Class XII pass	NIL
Learning Objectives						

The Learning Objectives of this course are as follows:

- This course introduces the basic concepts in Macroeconomics both in closed and open economy. It deals with the behaviour and characteristics of aggregate economy. This course introduces the definition, measurement of the macroeconomic variables like GDP, consumption, savings, investment and balance of payments. The course also discusses various theories and approaches of determining GDP.

Learning outcomes

The Learning Outcomes of this course are as follows:

- The students will learn the broad understanding of macroeconomic variables and their measurement issues like GDP, inflation, money supply, interest rate and their inter-linkages. It will also allow them to critically evaluate various macroeconomic policies and their effects on output and interest rate in the economy.

SYLLABUS OF GE-4

UNIT – I: Introduction (05 Hours)

What is macroeconomics? Macroeconomic issues in an economy

UNIT – II: National Income Accounting (10 Hours)

Concepts of GDP and National Income; measurement of national income and related aggregates; nominal and real income; limitations of the GDP concept

UNIT – III: Determination of GDP (10 Hours)

Actual and potential GDP; aggregate expenditure; consumption function; investment function; equilibrium GDP; concepts of MPS, APS, MPC, APC; autonomous expenditure; Concept of multiplier

UNIT – IV: National Income Determination in an Open Economy with Government (10 Hours)
Income determination; Fiscal Policy: impact of changes in government expenditure and taxes; net exports function; net exports and equilibrium national income.

UNIT – V: Money in a Modern Economy (10 Hours)

Concept of money in a modern economy; monetary aggregates; demand for money; quantity theory of money; liquidity preference and rate of interest; money supply and credit creation; monetary policy.

Practical component (if any) - NIL

Essential/recommended readings

- Andrew Abel, Ben Bernanke and Dean Croushore (2011). *Macroeconomics* (7th edition). Pearson
- Richard T. Froyen (2013). *Macroeconomics: Theories and Policies* (10th ed.), Pearson.
- Blanchard, O. (2018). *Macroeconomics* (7th edition). Pearson
- Blanchard, O. (2006). *Macroeconomics* (6th edition). Pearson
- Dornbusch, R., and S. Fischer. (1994). *Macroeconomics* (6th edition). McGraw- Hill
- R. Dornbusch, S. Fischer and R. Startz. (2018). *Macroeconomics* (12th edition). McGraw-Hill

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-5): BASIC STATISTICS FOR ECONOMICS

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Basic Statistics for Economics ECON022	4	3	1	0	Class XII pass	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- The course teaches students the basics of probability theory and statistical inference based on simple technical rigor. It includes introductory probability theories, sample

distribution and hypothesis testing that set a necessary foundation for the econometrics course taught as a General Elective.

Learning outcomes

The Learning Outcomes of this course are as follows:

- The student will be able to analyse the data using basic statistical concepts. They will understand sampling characteristics, estimation as well as examining the hypotheses using discrete and continuous distributions.

SYLLABUS OF GE- 5

UNIT – I: Introduction and overview (09 Hours)

Populations and samples; sample statistics; Descriptive Statistics.

UNIT – II: Basic concepts of probability (12 Hours)

Spaces and events; probability concepts, conditional probabilities

UNIT – III: Probability distributions and Sampling (12 Hours)

Random variables – discrete and continuous, various probability distributions - functions and characteristics; Commonly used distributions - uniform, binomial, exponential, Poisson, hypergeometric and Normal random variables. Jointly distributions- conditional distributions and expectations, covariance and correlation

Unit – IV: Estimation and Hypothesis testing (12 Hours)

Estimation of population parameters - methods of moments and maximum likelihood procedures; properties of estimators; confidence intervals; Defining statistical hypotheses; distributions of test statistics; testing hypotheses related to population parameters; Type I and Type II errors; power of a test

Practical component (if any) - NIL

Essential/recommended readings

- Larsen, R., Marx, M. (2011). *An Introduction to Mathematical Statistics and its Applications*, Prentice Hall.
- James McClave, P. George Benson, Terry Sincich (2017), *Statistics for Business and Economics*, Pearson's Publication.
- Anderson D. R, Sweeney D.J. et. al (2019), *Statistics for Business & Economics*, 13th ed. Cengage Learning.
- Sheldon Ross (2017), *Introductory Statistics*, 4th Edition, Academic Press

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-6): INDIAN ECONOMY

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Indian Economy ECON030	4	3	1	0	Class XII pass	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- This course introduces the economic problems related to the Indian economy by familiarizing them with the research studies on areas relating to economic development and policy in India with an emphasis on contemporary debates.

Learning outcomes

The Learning Outcomes of this course are as follows:

- The students will be able to learn the development paradigm adopted in India since independence and evaluate its impact on economic as well as social indicators of progress. Students will have the ability to explore current policy debates and contribute to policy making in an informed way using relevant databases. They will also learn how to conduct independent research in these areas

SYLLABUS OF GE-3

Unit 1 : Historical and general overview of Indian economy since Independence (05 Hours)

Unit 2 : Growth and structural change (09 Hours)

Unit 3 : The Indian economy in a comparative perspective (09 Hours)

Unit 4 : Key issues: poverty, inequality, education, health and gender (09 Hours)

Unit 5 : Agriculture, industry, services and international trade (09 Hours)

Practical component (if any) - NIL

Essential/recommended readings

- Kumar, Dharma (2005) ed the article on The Indian Economy 1970 to 2003 in revised version of CEHI Vol II
- Balakrishnan, Pulapre (2010) *Economic Growth in India: History and Prospect*. OUP.
- Rakshit, Mihir (2011) *Macroeconomics of Post-reform India*. OUP
- Rakshit, Mihir (2010) *Money and Finance in the Indian Economy*. OUP
- Goyal, Ashima(ed) (2015) *A Concise handbook of Indian Economy in the 21st*

Century .OUP

- Ghate, Chetan (ed) (2012) *The Oxford Handbook of Indian Economy*. OUP.
- Bosworth, B., Collins, S. M., & Virmani, A. (2007). *Sources of growth in the Indian economy*.
- Goyal, A. (Ed.). (2019). *A Concise Handbook of the Indian Economy in the 21st Century*. Oxford University Press.
- Pulpapre Balakrishnan, 2007, “The Recovery of India: Economic Growth in the Nehru Era”, *Economic and Political Weekly*, November.
- Rakesh Mohan, 2019, *Moving India to a new Growth Trajectory: Need for a Comprehensive Big Push*, Brookings India, Section 1 and 2, 9-30.
- Ahluwalia, M. S., 2019, “India’s economic reforms: Achievements and Next Steps”, *Asian Economic Policy Review*, 14(1), 46-62.
- James, K.S., & Srinivas Goli, 2016, “Demographic Changes in India: Is the Country Prepared for the Challenge?” *Brown Journal of World Affairs*, Fall/Winter 2016, Volume XXIII, Issue I.
- Desai, S., 2015, “Demographic deposit, dividend and debt”, *The Indian Journal of Labour Economics*, 58, 217-232
- Arvind Subramanian and Josh Felman (2021) India’s Stalled Rise-How the State Has Stifled Growth, *Foreign Affairs* on 14.12. 2021
- Executive Summary, 2014, Report of the Expert Group to Review the Methodology for Measurement of Poverty (Rangarajan Committee report), GOI, 1-5
- Thomas, J. J. (2020). ‘Labour Market Changes in India, 2005–18’, *Economic and Political Weekly*, 55(34), 57

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

English

GENERIC ELECTIVES (GE-7) MARGINALITIES IN INDIAN WRITING

Credit Distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
GE-8 Marginalities in Indian Writing	4	3	1	0	Passed Class XII	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- To train the students in a multi-genre approach to writings from the marginalities.
- To move toward an understanding of alternative aesthetics.

Learning outcomes

The Learning Outcomes of this course are as follows:

- By studying this course, students will be able to understand the need for a renewed social and cultural consciousness.
- This course will aid students in the understanding of a movement toward a new kind of literary and social history based on emancipation.

SYLLABUS OF GE-8

UNIT – I (15 Hours)

Caste

1. Ambedkar, B. R. Chap. 4 (pp 233-236); Chap. 6 (pp 241-244) & Chap. 14 (pp 259-263), *Annihilation of Caste: The Annotated Critical Edition*. (New Delhi: Navayana Publications, 2015).

2. Bama, 'Chapter 1', *Sangati*. trans. Lakshmi Holmstrom, New Delhi: Oxford University Press, 2005. pp 3-14

3. Navaria, Ajay. 'Yes Sir', *Unclaimed Terrain*. trans. Laura Brueck, New Delhi: Navayana, 2013. pp 45-64

4. Gogulamanda, Aruna. 'A Dalit Woman in the Land of Goddesses', *First Post*, Posted 13 August 2017.

<https://www.firstpost.com/long-reads/a-dalit-woman-in-the-land-of-goddesses-3919861.html>

UNIT – II (15 Hours)

Disability

5. Chib, Malini. *One Little Finger*. New Delhi: Sage, 2011. pp 103-190
6. Sahay, Raghuvir. 'The Handicapped Caught in a Camera', *Chicago Review*. trans. Harish Trivedi, 38: 1/2,1992. pp 146-147

UNIT – III (15 Hours)

Tribe

7. Sonawane, Waharu. 'Literature and Adivasi Culture', *Lokayana Bulletin*. Special Issue on Tribal Identity, 10: 5/6, March-June 1994. pp 11-20
8. Brahma, Janil Kumar. 'Orge', *Modern Bodo Short Stories*. trans. Joykanta Sarma, Delhi: Sahitya Akademi, 2003. pp 1-9
9. Sangma, D. K. 'Song on Inauguration of a House', *Garo Literature*, trans. Caroline Marak, Delhi: Sahitya Akademi, 2002. pp 72-73
10. Khare, Randhir. 'Raja Pantha', *The Singing Bow: Poems of the Bhil*. Delhi: Harper Collins, 2001. pp 1-2

Practical component (if any) - NIL

Essential/recommended readings- as listed in the units

Suggestive readings:

1. Basu, Sudeep and Asmita Bhattacharyya (ed.). *Marginalities in India: Themes and Perspectives*. Singapore: Springer, 2017.
2. Kumar, Parmod (ed.). *Literature and Marginality: Emerging Perspectives in Dalit Literature*. Germany: Lap Lambert Academic Publishing GmbH KG, 2013.
3. Addlakha, Renu (ed.). *Disability Studies in India: Global Discourses, Local Realities*. India: Taylor & Francis, 2020.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-8) INDIAN CLASSICAL LITERATURE

Credit distribution, Eligibility and Prerequisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
GE-9 Indian Classical Literature	4	3	1	0	Passed Class XII with English from List A in CUET	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- To offer students a foundational understanding of Indian classical literary tradition.
- To introduce students to a rich and diverse literature from two classical languages of India, Sanskrit and Tamil.

Learning outcomes

The Learning Outcomes of this course are as follows:

- By studying this course, students will be able to gain knowledge of the aesthetic and cultural values that serve as the groundwork for later developments in Indian philosophical and social change.

SYLLABUS OF GE-9

UNIT – I (15 Hours)

1. Vyasa. Selections from *The Mahabharata*, from *The Mahabharata of Krishna-Dwaipayana Vyasa*, trans. K. M. Ganguli (Delhi: Munshiram Manoharlal Publishers, 2012).

- a) 'The Dicing' and 'Sequel to Dicing', Book 2, Sabha Parva Section XLVI-LXXII
- b) 'The Temptation of Karna', Book 5, Udyog Parva, Section CXL-CXLVI.
- c) 'Krishna's Peace Proposal', Book 5, Udyog Parva, Section LXXXIX-CXXXI

UNIT – II (15 Hours)

1. Kalidasa. *Abhijnanasakuntalam*, trans. Chandra Rajan, in *Kalidasa: The Loom of Time*. Penguin Classics, 1989, reprint 2000.

UNIT – III (15 Hours)

1. Ilango Atikal. 'The Book of Vanci', *Cilappatikaram*. trans. R. Parthasarathy (Columbia University Press, 1993; Penguin Books India, 2004).

Practical component (if any) - NIL

Essential/recommended readings- as listed in the units

Suggestive readings:

1. Bharata Muni. Selections from *Natyasastra*. (i) Chapter 6, 'The Sentiments'; (ii) Chapter 20, 'Ten Kinds of Play'; (iii) Chapter 35, 'Characteristics of the Jester', trans. Manomohan Ghosh, Calcutta: Asiatic Society of Bengal, 1951. pp105-17; 355-74; 548-50
2. Osho. Selections from *Krishna: The Man and His Philosophy*. (i) Krishna is Complete and Whole (ii) Draupadi: A Rare Woman (iii) Action, Inaction and Non-Action (iv) Rituals, Fire and Knowledge, Delhi: Jaico Publishing House, 1991.
3. Kapoor, Kapil. *Indian Knowledge System Vol. 1*. New Delhi: D.K. Printworld Pvt. Ltd., 2005. pp 1-31
4. Gerow, Edwin, et al. 'Indian Poetics', *The Literatures of India: An Introduction*. ed. Edward. C. Dimock et al, Chicago: University of Chicago Press, 1974. pp 115-143
5. Venkatachalapathy, R. 'Introduction', *Love Stands Alone: Selections from Tamil Sangam Poetry*. Delhi: Penguin Classics, 2013. pp XIII-XLI; 25; 45; 70; 186

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-9) TWENTIETH CENTURY DRAMA

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
GE-10 TWENTIETH CENTURY DRAMA	4	3	1	0	Passed Class XII	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- To familiarize students with drama of the 20th century with a focus on region and milieu.
- To enable an understanding of the various evolving sub genres of drama in the 20th Century.

Learning outcomes

The Learning Outcomes of this course are as follows:

- By studying this course, students will be able to identify the generic differences contextualized by the socio-political interventions of the 20th Century.
- Students will learn of contemporary critical approaches to drama such as feminist, new historicist, etc.

SYLLABUS OF GE- 10

UNIT – I (15 Hours)

1. Bernard Shaw: *Saint Joan*

UNIT – II (15 Hours)

2. Arthur Miller: *Death of a Salesman*

UNIT – III (15 Hours)

3. Karnad, Girish. 'Broken Images', *Collected Plays: Volume II*. New Delhi: Oxford University Press, 2005. pp 261-284

Practical component (if any) - NIL

Essential/recommended readings- as listed in the units

Suggestive readings:

1. Stanislavsky, Constantin. 'Faith and the Sense of Truth', *An Actor Prepares*. United Kingdom: Bloomsbury Academic, 2013. pp 111-139
2. Steiner, George. 'On Modern Tragedy', *The Death of Tragedy*. London: Faber, 1995. pp 303–324
3. Worthen, W. B. *Print and the Poetics of Modern Drama*. United Kingdom: Cambridge University Press, 2005.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-10) CINEMATIC ADAPTATIONS OF LITERARY TEXTS

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
GE-11 Cinematic Adaptations of Literary Texts	4	3	1	0	Passed Class XII	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- To introduce aspects of cinema studies and adaptation studies
- To consider the relationship between literature and cinema

Learning outcomes

The Learning Outcomes of this course are as follows:

- By studying this course, students will be able to Students will acquire knowledge of visual grammar across genres of film.
- This course will help understand how cinema deals with issues of literariness, translation and adaptation.

SYLLABUS OF GE- 11

UNIT – I (15 Hours)

1. Shakespeare: *Othello*
2. *Othello*. dir. Oliver Parker, 1995.

UNIT – II (15 Hours)

3. E M Forster: *A Passage to India*
4. *A Passage to India*. dir. David Lean, 1984.

UNIT – III (15 Hours)

5. Mario Puzo: *The Godfather*

6. *The Godfather*. dir. by Francis Ford Coppola, 1972.

Practical component (if any) - NIL

Essential/recommended readings- as listed in the units

Suggestive readings:

1. Stam, Robert, et al. (ed.) *Literature and Film: A Guide to the Theory and Practice of Film Adaptation*. Taiwan: Wiley, 2005.

2. Cartmell, Deborah. (ed.) *A Companion to Literature, Film, and Adaptation*. United Kingdom: Wiley, 2014.

3. Monaco, James. 'The language of film: signs and syntax', *How to Read a Film: The World of Movies, Media & Multimedia*. New York: OUP, 2009. pp 170– 249

4. Hutcheon, Linda. 'On the Art of Adaptation', *Daedalus*. vol. 133, 2004.

5. Leitch, Thomas. 'Adaptation Studies at Crossroads', *Adaptation*. vol. 1, no. 1, 2008. pp 63–77

6. Trivedi, Poonam. 'Filmi Shakespeare', *Litfilm Quarterly*, vol. 35, issue 2, 2007.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-11) TRAVEL WRITINGS

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
GE-12 Travel Writings	4	3	1	0	Passed Class XII	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- To introduce students to the field of genre fiction
- To indicate the diversity of the field

Learning outcomes

The Learning Outcomes of this course are as follows:

- By studying this course, students will be able to analyse the differences and similarities between detective and science fiction.
- Students will be able to appreciate generic specifics of travel writings.

SYLLABUS OF GE- 12

UNIT – I (15 Hours)

1. Vikram Seth: *From Heaven Lake: Travels through Sinkiang and Tibet*

UNIT – II (15 Hours)

2. Amitav Ghosh: *Dancing in Cambodia; At Large in Burma*

UNIT – III (15 Hours)

3. Ved Mehta: *Walking the Indian Streets*

Practical component (if any) - NIL

Essential/recommended readings- as listed in the units

Suggestive readings:

1. Bassnett, Susan. 'Travel Writing and Gender', *Cambridge Companion to Travel Writing*. ed. Peter Hulme and Tim Young, Cambridge: CUP, 2002. pp 225-241
2. Khair, Tabish. 'An Interview with William Dalrymple and Pankaj Mishra', *Postcolonial Travel Writings: Critical Explorations*. ed. Justin D Edwards and Rune Graulund, New York: Palgrave Macmillan, 2011. pp 173-184
3. Balton, Casey. 'Narrating Self and Other: A Historical View', *Travel Writing: The Self and The Other*. Routledge, 2012. pp 1-29
4. Mohanty, Sachidananda. 'Introduction: Beyond the Imperial Eyes', *Travel Writing and Empire*. New Delhi: Katha, 2004. pp ix –xx.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-12) CONTEMPORARY INDIA: WOMEN AND EMPOWERMENT

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
GE-13 Contemporary India: Women and Empowerment	4	3	1	0	Passed Class XII	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- To familiarize students with the basic theories about gender, be it feminism, queer studies or masculinity studies.
- To introduce students to literary texts that prioritise issues of gender in India.

Learning outcomes

The Learning Outcomes of this course are as follows:

- By studying this course, students will be able to identify and contextualize gender politics at work within a text and read social change through the lens of gender.
- Students will be able to use the knowledge of gender theory and its evolution in their everyday life.

SYLLABUS OF GE- 13

UNIT – I (15 Hours)

Concepts

- Sex and Gender -- social construction of gender; socialisation into gender
- Femininities and masculinities -- normative gender privilege; heteronormativity

- Patriarchy -- history of the efforts to undo feminism

ESSENTIAL READINGS:

1. Kamble, Baby. 'Our Wretched Lives', *Women Writing in India: 600 BC to the Early Twentieth Century*. Eds. Susie Tharu and K Lalitha, Delhi: OUP, 1997. pp 307-311
2. Rassundari Devi, Excerpts from *Amar Jiban*, *Women Writing in India: 600 BC to the Early Twentieth Century*. Eds. Susie Tharu and K Lalitha, Delhi: OUP, 1997. pp 190-202
3. Begum Rokeya Shekhawat Hossain, 'Sultana's Dream', *Women Writing in India: 600 BC to the Early Twentieth Century*. Eds. Susie Tharu and K Lalitha, Delhi: OUP, 1997. pp 340-351
4. Geetha, V. *Patriarchy*. Kolkata: Stree, 2007. pp 3-61

UNIT – II (15 Hours)

Intersections

- Women and caste, religion, class, sexualities, race, disability
- Women and environment, technology, development
- Women and access to resources: employment, health, nutrition, education
- Women and reproductive work: singleness, marriage, motherhood, symbolical biological surrogacy and parenting, abortion, and other rights over own body

ESSENTIAL READINGS:

5. Devi, Mahasweta. 'Bayen', *Five Plays*. trans. Samik Bandyopadhyay, Calcutta: Seagull, 2009.
6. John, Mary. 'Feminism Poverty and the Emergent Social Order', *Handbook of Gender*. ed. Raka Ray, Delhi: Oxford University Press, 2012.
7. Kasturi, Leela. 'Report of the Sub-Committee Women's Role in Planned Economy National Planning Committee (1947)', *Feminism in India*. ed. Maitrayee Chaudhuri, Delhi: Zed, 2005. pp 136-155
8. Shiva, Vandana. Chapters 2 & 4, *Staying Alive: Women Ecology and Development*. Delhi: Kali for Women, 1989.

9. Vinodini, M.M. 'The Parable of the Lost Daughter', *The Exercise of Freedom*. eds. K. Satyanarayana and Susie Tharu, Delhi: Navayana, 2013. pp 164-77

UNIT – III (15 Hours)

Histories

- The women's question pre-Independence -- sati-reform, widow remarriage, debates around age of consent
- Women in the Independence movement, Partition
- Post-Independence campaigns -- against sexual harassment and rape, dowry, violence, debates around the Uniform Civil Code
- Public sphere participation of women -- in politics, in the workplace, in the economy, creating educational inclusion

ESSENTIAL READINGS:

10. Kumar, Radha. Chapters 2; 3; 7; 8; 11, *A History of Doing: An Illustrated Account of Movements for Women's Rights and Feminism in India 1800—1990*. Delhi: Zubaan, 1993.

11. Sangari, Kumkum. 'Politics of Diversity: Religious Communities and Multiple Patriarchies', *Economic and Political Weekly*. Vol. 3052, 1995.

12. Sarkar, Tanika. 'Rhetoric against Age of Consent: Resisting Colonial Reason and Death of a Child-Wife', *Economic and Political Weekly*. Vol. 2836, April, 1993.

13. Moon, Meenakshi and Urmila Pawar. Chapters 1; 5; 6, *We also made history: Women in the Ambedkarite Movement*. Delhi: Zubaan, 2008.

Practical component (if any) –

Students to examine the bare text of 4 laws (as set out in the Gazette of India) followed by discussion and analysis -- laws against dowry (The Dowry Prohibition Act 1961), against sex determination (Pre-Conception & Pre-Natal Diagnostics Act 1994), against domestic violence (Protection of Women from Domestic Violence Act 2005), against sexual harassment at the workplace (The Sexual Harassment of Women at Workplace Prevention Prohibition and Redressal Act 2013).

Essential/recommended readings- as listed in the units

Suggestive readings:

1. Nair, Janaki. 'The Foundations of Modern Legal Structures in India', *Handbook of Gender*. ed. Raka Ray, Delhi: OUP, 2012.
2. Agnes, Flavia. 'Conjuality, Property, Morality and Maintenance', *Handbook of Gender*. ed. Raka Ray, Delhi: OUP, 2012.
3. *Indian Literature: An Introduction*. Delhi: University of Delhi, 2005.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-13) CULTURE & THEORY

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
GE-14 Culture & Theory	4	3	1	0	Passed Class XII	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- To familiarize students with the basic theories which they might fruitfully deploy when engaging with problems related to culture.
- To introduce students to critical texts that deal with the central problems in the analysis of modern culture.

Learning outcomes

The Learning Outcomes of this course are as follows:

- By studying this course, students will be able to deal with the methodological breakthroughs that enable them to decipher culture.
- Students will be introduced to the possibilities of semiotic analyses of culture as it moves across differing often non-linguistic media.

SYLLABUS OF GE- 14

UNIT – I (15 Hours)

1. Hall, Stuart. 'Cultural Identity and Diaspora,' *Identity: Community, Culture, Difference*. Ed. J. Rutherford, London: Lawrence and Wishart, 1990.
2. Chekhov, Anton. 'The Bride', *Selected Works*. Moscow: Progress P, 1973.

UNIT – II (15 Hours)

3. Beauvoir, Simone de. 'Introduction', *The Second Sex*. London: Vintage 1997. pp 13-29
4. Sartre, Jean Paul. 'Intimacy', *The Wall*. trans. Alexander Lloyd Wisconsin, Hal Leonard Corp, 1995.

UNIT – III (15 Hours)

5. Foucault, Michel. 'What is an Author?', *Modern Criticism and Theory: A Reader*. ed. David Lodge with Nigel Wood, New Delhi: Pearson, 2007. pp 192-205
6. Mansfield, Katherine. 'The Voyage', *The Penguin Book of Short Stories*. ed. Christopher Dolley, Harmondsworth: Penguin, 1970.

Practical component (if any) - NIL

Essential/recommended readings- as listed in the units

Suggestive readings:

1. Smith, Philip, and Riley, Alexander. *Cultural Theory: An Introduction*. Germany: Wiley, 2011.
2. Archer, Margaret Scotford, and Archer, Margaret S. *Culture and Agency: The Place of Culture in Social Theory*. United Kingdom: Cambridge University Press, 1996.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-14) LIFE AND LITERATURE

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
GE-15 Life & Literature	4	3	1	0	Passed Class XII	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- To study the ways in which art and literature is understood by engaging with aspects of form, taste and feeling.
- To analyze and understand the social and practical dimensions of aesthetics.

Learning outcomes

The Learning Outcomes of this course are as follows:

- By studying this course, students will be able to appreciate of the ways in which different cultural modes of aesthetic function.
- Students will be able to critically study of life, art and literature in students.

SYLLABUS OF GE-15

UNIT – I (15 Hours)

1. Albom, Mich. *Tuesdays with Morrie*. Doubleday, 1997.

UNIT – II (15 Hours)

2. Bandyopadhyay, Bibhutibhushan. *Pather Panchali* (1929) trans. *The Song of the Road*. Penguin Modern Classics, 2019.

UNIT – III (15 Hours)

3. Murthy, Sudha. *Wise and Otherwise*. Penguin Random House, 2002.

Practical component (if any) - NIL

Essential/recommended readings- as listed in the units

Suggestive readings:

1. Berne, Eric. *Games People Play: The Psychology of Human Relationships*. United States: Grove Press, 1964.
2. Kalam, A.P.J. Abdul. *My Journey: Transforming Dreams into Actions*. India: Rupa Publications India, 2013.
3. Richard Bach: *Jonathan Livingston Seagull*. 1970

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-15) INDIVIDUAL AND

SOCIETY Credit distribution, Eligibility and Pre-requisites of

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
GE-16 Individual and Society	4	3	1	0	Passed Class XII	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- To study the ways in which individual and society engage with each other across socio political and geopolitical contexts
- To analyze the texts and contexts that that enable such an engagement and continue to shape the world

Learning outcomes

The Learning Outcomes of this course are as follows:

- By studying this course, students will be able to inculcate an ability to evaluate the continuing significance of identity-construction and aesthetic representation.
- Students will be able to appreciate the way in which different modes of narratives reconfigure the relationships between individual and society.

SYLLABUS OF GE- 16

UNIT – I (15 Hours)

UNIT I: Caste and Class

1. Sood, Vinay, ed. Chapters 1-6, *The Individual and Society: Essays, Stories and Poems*. Delhi: Pearson, 2005.

UNIT – II (15 Hours)

UNIT II: Violence and War

2. Sood, Vinay, ed. Chapters 21-26, *The Individual and Society: Essays, Stories and Poems*. Delhi: Pearson, 2005.

UNIT – III (15 Hours)

UNIT III: Living in a Globalized World

3. Sood, Vinay, ed. Chapters 29-34. *The Individual and Society: Essays, Stories and Poems*. Delhi: Pearson, 2005.

Practical component (if any) - NIL

Essential/recommended readings- as listed in the units

Suggestive readings:

1. Béteille, André. *Caste, Class, and Power*. University of California Press, 1969.
2. Sharma, Kanhaiya Lal (ed.). *Caste and Class in India*. India, Rawat Publications, 1994.
3. Malešević, Siniša. *The Sociology of War and Violence*. United Kingdom: Cambridge University Press, 2010.
4. Karatzogianni, Athina (ed.). *Violence and War in Culture and the Media: Five Disciplinary Lenses*. United Kingdom: Taylor & Francis, 2013.
5. Held, David (ed.). *A Globalizing World? Culture, Economics, Politics*. United Kingdom: Routledge, 2000.
6. Yoshida, David, et al. *Living in a Globalized World*. Canada: Oxford University Press, 2007.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

Environmental Studies

GENERIC ELECTIVES (GE-EVS-05): CIRCULAR ECONOMY AND ENVIRONMENTAL SUSTAINABILITY

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
CIRCULAR ECONOMY AND ENVIRONMENTAL SUSTAINABILITY	4	2	0	2	Class XII pass	NIL

Learning objectives

The Learning Objectives of this course are as follows:

- Critically evaluate five mega trends involving climate, development, ecology, economy, and technology and their linkages with energy and resources
- Inculcate principles and methods of circular economy and design resource-efficient, low carbon paradigm.
- Analyze business models/institutes/communities and associated processes and services and develop recommendations for integrating principles of circular economy
- Adopt routes of circular economy in personal, family, community, and institutional settings.

Learning outcomes

After the course, the students will be

- Equipped with tools and techniques of circular economy to develop a sustainable institute or community
- Acting as a consultant to industries and international organizations aiming for a circular economy
- Serving as a catalyst in evolving an ecoliterate society and industry and promoting sustainable polices

SYLLABUS OF GE-1

Theory (02 Credits: 30 lectures)

UNIT – I Circular economy (3 Hours)

Concept and definitions; Closed loop ecosystems; Systems thinking; Benefits to environment, economy and society (03 lecture)

UNIT – II Principles of circular economy (4 Hours)

Sustainable procurement; Ecodesign; Industrial and territorial ecology; Economics of functionality; Responsible consumption; Extending the duration of use; Recycling (04 lecture)

UNIT – III Steps for transition towards a circular economy (7 Hours)

Large-scale transition to non-polluting sources of energy; Durable products requiring less materials and energy; Incentivization of recycling, re-use, and repair; Replacement of hazardous materials with safer alternatives (07 lecture)

UNIT – IV Circular economy implementation (7 Hours)

Micro-level: Firm-level engineering and managerial level; Meso-level: Industrial ecology, Industrial symbiosis, Eco-clusters, Eco-industrial parks; and Macro level: General policies, Plans, Green and sustainable entrepreneurship. (07 lecture)

UNIT –V Challenges in implementing circular economy (7 Hours)

Achievability and desirability; Disrupting consumer's convenience; Local regulations versus the circular economy concept; Lack of infrastructure for waste treatment; Lack of recycling technology; Poor business model plan (07 lecture)

UNIT –VI Case studies from India and other parts of the world (2 Hours)

Practicals/Hands-on Exercises – based on theory (60 hours)

1. Evaluate the status of your institute with respect to efforts on circular economy using qualitative and quantitative surveys
2. Survey your institute and depict the journey of waste in your institute highlighting the factors/actors that are barrier to and facilitator of complete waste recycling
3. Collect spatial and temporal data on types of wastes being generated and identify the recycling hotspots and the gap in adopting circular economy principles
4. Based on activities 1 – 3, develop a consolidated waste recycling plan highlighting targets for Institute and each Department
5. Recycle and reuse the waste clothes produced at home and make a presentation in the class to increase their lifecycle and estimate its impact on ecological footprint of the family/institute
6. Coordinate with different groups working on waste recycling focusing on different types of wastes segregated at home/institute, for example, plastics/ glass/furniture/ metal/cans/paper waste and present as group activity
7. Visit an industrial area to analyse the status of circular economy concepts being practiced and give recommendations to improve the industrial sustainability (submit the report)
8. Conduction workshop in the Institute to educate students of other courses for converting wastes into useful products
9. Run a repair café where students and staff bring their broken stuff and get it repaired with the help of experts available at the Institute
10. Conduct a swap shop and swap party where people bring their old clothes for exchange
11. Estimate the impact of activities 8–10 reduction in ecological footprints
12. Conduct a drive to collect e-waste from the institute and the neighbourhood localities and donate it to the recycling facilities and estimate its impact on environment.
13. Based on the activities 1–12, plan and conduct awareness camps in the neighbourhood to educate and motivate people about importance of reuse and recycling and empower them with recycling methods

Essential/recommended readings

- Charter, M. ed., 2018. *Designing for the Circular Economy*. Routledge, London, UK.
- Hawken, P., Lovins, A.B. and Lovins, L.H., 2013. *Natural Capitalism: The Next Industrial Revolution*. Routledge.
- Lacy, P. and Rutqvist, J., 2015. *Waste to Wealth: The Circular Economy Advantage*. London: Palgrave Macmillan.
- Mavropoulos, A. and Nilsen, A.W., 2020. *Industry 4.0 and Circular Economy: Towards a Wasteless Future or A Wasteful Planet?* John Wiley & Sons.
- Stahel, W.R. and MacArthur, E., 2019. *The Circular Economy: A User's Guide*. Routledge, NY, USA.

Suggested readings

- Crocker, R., Saint, C., Chen, G. and Tong, Y. eds., 2018. *Unmaking Waste in Production and Consumption: Towards the Circular Economy* (pp. 1-353). Bingley, UK: Emerald Publishing Limited.
- Delchet-Cochet, K. ed., 2020. *Circular Economy: From Waste Reduction to Value Creation*. John Wiley & Sons.
- Frodermann, L., 2018. *Exploratory Study on Circular Economy Approaches*. Springer, Fachmedien Wiesbaden.
- Ghosh, S.K., Samanta, S., Hirani, H. and da Silva, C.R.V. eds., 2022. *Effective Waste Management and Circular Economy: Legislative Framework and Strategies*. CRC Press.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

Credit distribution, Eligibility and Pre-requisites of the Course

GENERIC ELECTIVES (GE-EVS-6): WETLANDS FOR INDUSTRIES AND ENVIRONMENT

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
WETLANDS FOR INDUSTRIES AND ENVIRONMENT	4	2	0	2	Class XII pass	NIL

Learning objectives

The Learning Objectives of this course are as follows:

- Delineate, and classify the target wetland
- Identify common wetland plants and indicators of wetlands
- Assess landscape for wetland management and conservation
- Evolve a wetland construction and restoration plan
- Suggest appropriate changes for effective wetland regulation law and policy

Learning outcomes

After successful completion of this course, students will be able to:

- Apply basic principles of wastewater treatment for environmental and industrial applications
- Develop plans for monitoring wetland health and designing a constructed wetland
- Assess the feasibility of constructed wetlands for wastewater treatment
- Operate and maintain wetlands in nature and industries

SYLLABUS OF GE-EVS-6

Theory (02 Credits: 30 lectures)

UNIT – I Ecology and socio-economy of wetlands (11 Hours)

Wetland types and functions; Ramsar Convention, Vegetation type and dynamics; Soil types; Geology and geomorphology; Hydrological regimes: Water quality and balance, Sedimentation; Indicators; Biodiversity and its significance; Ecological and economic benefits: Provisioning, Regulating, Cultural and Supporting services, Socio-economic and cultural diversity in human society living in and around wetlands; Income and employment generation by wetlands; Community resource use and management practices. (11 lectures)

UNIT – II Wetlands and water treatments (8 Hours)

Principles and efficacy of natural wetlands; Economics of treatment; Case studies from India and other countries; Types of constructed wetlands and their principles; Potential of constructed wetlands for treating different types of wastewaters (agriculture, domestic,

industry, municipal, runoff, and sludge); Operation and maintenance; Case studies from India and other countries (8 lectures)

UNIT – III Wetland management (11 Hours)

Delineation and mapping; Features and associated factors; Monitoring ecosystem health; Major threats; Setting up goals and objectives; Institutional arrangements, Wetlands ecosystem services maps; Ecosystem services trade-offs; Landscape-scale Management; Interventions to sustain biodiversity and ecosystem services; Mobilizing community participation and generating finance; Cross-sectoral integration; Integration of wetland conservation in development plans, acts, and rules; Adaptive management. (11 lectures)

Practicals/Hands-on Exercises – based on theory (02 Credits: 60 hours)

1. Identify a potential area for wetland construction, propose its purpose and goal, and develop the construction plan giving details of location, type, current land use, biodiversity, and hydrologic regime
1. Prepare water budgets and hydrographs of the selected area based on the data on water inputs and outputs collected from concerned institutes
2. Field surveys and analyze vegetation characteristics of a pristine wetland present in the nearby location of the study site
3. Analyze adaptive strategies of selected native plants to hydrologic regime suitable for wetland construction and develop planting strategies of species assemblage
4. Analyze soil type and determine its physico-chemical properties (pH, TDS, EC, CEC, Redox potential, etc.)
5. Evolve soil amendment method to improve texture, percolation, and nutrient composition. suitable for the hydrogeomorphic model and selected plant species
6. Surveying wetlands to identify suitable indicators for mapping and delineating wetlands zone of influence and evaluate anthropogenic activities as major threats to wetlands
7. Develop wetlands ecosystem services (ES) potential maps and evaluate ES trade-offs
8. Analyze different models for wetland construction and, based on the nature of the water regime and basic methods of wetland construction, recommend the hydrogeomorphic model suitable for the selected landscape

Essential/recommended readings

- Aber, J.S., Pavri, F. and Aber, S., 2012. *Wetland Environments: A Global Perspective*. John Wiley & Sons.
- Keddy, P.A., 2010. *Wetland Ecology: Principles and Conservation*. Cambridge University Press.
- Shuqing, An., and Jos, T.A. Verhoeven (Eds.), 2019. *Wetlands: Ecosystem Services, Restoration and Wise Use Series: Ecological Studies*, Volume 238, Springer, Cham.
- Stefanakis, A.I. ed., 2018. *Constructed Wetlands for Industrial Wastewater Treatment*, Wiley, Blackwell.
- Tiner, R.W., 2016. *Wetland Indicators: A Guide to Wetland Formation, Identification, Delineation, Classification, and Mapping*. CRC Press.

Suggested readings

- Austin, G. and Yu, K., 2016. *Constructed Wetlands and Sustainable Development*. Routledge.
- Lopez, R.D., Lyon, J.G., Lyon, L.K. and Lopez, D.K., 2013. *Wetland Landscape Characterization: Practical Tools, Methods, and Approaches for Landscape Ecology*. CRC Press.
- Windham-Myers, L., Crooks, S. and Troxler, T.G. eds., 2018. *A Blue Carbon Primer: The State of Coastal Wetland Carbon Science, Practice and Policy*. CRC Press.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-EVS-7): CORPORATE, SOCIAL, AND ENVIRONMENTAL RESPONSIBILITIES FOR CONSERVATION AND SUSTAINABLE DEVELOPMENT

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
CORPORATE, SOCIAL, AND ENVIRONMENTAL RESPONSIBILITIES FOR CONSERVATION AND SUSTAINABLE DEVELOPMENT	4	2	0	2	Class XII pass	NIL

Learning objectives

The Learning Objectives of this course are as follows:

- Inculcate interdependent and interrelated theories of corporate branding, environmental sustainability, and social equity
- Understand the working and driving forces of CSR and its significance as a stepping stone to Sustainable Business Models
- Gain insights into CSR as a tool to ensure social justice and adopt environmental wisdom from industries
- Empower with emerging frameworks and practices in CSR for environmental sustainability and improve quality of life

Learning outcomes

After the course, students will be able to:

- Explain the concept of CSR from an environmental sustainability perspective and its significance in next-generation marketing strategies
- Apply concepts of CSR to develop strategies for responsible marketing, business success, and environmental protection.
- Develop systems thinking and evolve as a responsible consumer
- Decipher linkages between concepts of circular economy, sharing economy, and carbon/ecological footprints, and identify opportunities and challenges to specific businesses and target consumers.
- Gain insights into five dimensions of sustainability performance: economic, environmental, governance, social and ethical
- Practice sustainability management, implement cleaner technologies, and argue in favour of environmental protection.

SYLLABUS OF GE-EVS-7

Theory (02 Credits: 30 lectures)

UNIT – I Sustainable Development (8 Hours)

Definitions, goals and frameworks; Sustainability: Definition and concept, Bottom of the pyramid and fairtrade; Evolution of concepts, Socio-ethical and environmental aspects, Benefits in strategic planning; Associated world's leaders and corporations, Financial, social and reputational benefits, Circular and share economy (8 lectures)

UNIT – II Corporate social responsibility (CSR) (6 Hours)

CSR: Definition and concept, Philosophy and practices of CSR; Measuring CSR; Impact of CSR on rural livelihoods, natural resources management, biodiversity conservation; Carbon footprint; Cleaner technologies; Emerging CSR policies in India

UNIT – III CSR and Sustainability (9 Hours)

Why and when to apply CSR activities, Competitiveness vs Ethical, Green markets and budget, Bottlenecks of being sustainable, Public-private partnerships for socio-ecological entrepreneurship, Vocal for local embedding sustainability; Business strategies for sustainable individuals, firms, and industries, Power-Inequality-Environment-CSR nexus, Managing, Monitoring, and Reporting CSR, Beyond framing CSR as strategic, political or utopian (9 lectures)

UNIT – IV Case studies (7 Hours)

CSR applications for improving livelihoods, enhancing soil health and crop productivity in stress environment, adaptation to climate change, and diversification of crop patterns improving rural wastewater management (7 lectures)

Practicals/Hands-on Exercises – based on theory (02 Credits: 60 hours)

1. Analyze variations in CSR efforts in saving the environment by countries differing in biodiversity and ecosystem diversity
2. Critically analyze OECD Guidelines for Multinational Enterprises on corporate responsibility
3. Select a company/business organization and, based on its activities and products, identify the environmental issues that need to be addressed for societal need
4. Evaluate diverse environmental issues based on their impact on society and organizational brand value and develop its vision document and a CSR plan for environmental conservation
5. Determine priorities and evolve a code of conduct document for the selected company to maximize its CSR for environmental issues
6. Based on the activities of the target business organization, develop an action plan and policies to suit the international guidelines and standards of CSR for environmental conservation

7. Identify the constraints to implement the guidelines and standards set based on dialogue with different stakeholders and surveying the local circumstances
8. Analyze the variations in guidelines and standards to meet the CSR in countries differing in biodiversity and cultural values
9. Identify the environmental indicators to formulate a monitoring and reporting system for CSR success
10. Evolve the appropriate communication style for different internal and external stakeholders
11. Field surveys and lab-based assays for monitoring the targeted ecosystem, biodiversity, environmental compartment, and socio-ecological systems for the impact of CSR

Essential/recommended readings

- Bachnik, K., Kaźmierczak, M., Rojek-Nowosielska, M., Stefańska, M. and Szumniak-Samolej, J. (eds.), 2022. *Corporate Social Responsibility and Sustainability: From Values to Impact*. Routledge.
- Camilleri, M.A., 2017. *Corporate Sustainability, Social Responsibility and Environmental Management*. Cham, Switzerland: Springer International Publishing.
- Geoffrey H., 2010. *When Principles Pay: Corporate Social Responsibility and the Bottom Line*, Columbia University Press.
- McKenna, K., 2015. *Corporate Social Responsibility and Natural Resource Conflict*. Routledge.

Suggested readings

- Roberts, L., Georgiou, N. and Hassan, A.M., 2022. Investigating biodiversity and circular economy disclosure practices: Insights from global firms. *Corporate Social Responsibility and Environmental Management*. DOI: 10.1002/csr.2402
- Ringham, K., 2017. *CSR and Sustainability: From the Margins to the Mainstream: A Textbook*, Routledge
- Rendtorff, J.D., 2019. *Philosophy of Management and Sustainability: Rethinking Business Ethics and Social Responsibility in Sustainable development*. Emerald Group Publishing.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-EVS-8): E-WASTES: LEGISLATION, TRADE AND MANAGEMENT

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
E-WASTES: LEGISLATION, TRADE AND MANAGEMENT	4	2	0	2	Class XII pass	NIL

Learning objectives

The Learning Objectives of this course are as follows:

- Define and explain e-waste and its category
- Learn effective mechanisms to regulate the generation, collection, storage, transport, import, and export,
- Empower with methods of recycling, treatment, and disposal of e-waste
- Current legislative rules for managing e-waste in the environment

Learning outcomes:

After the course, students will be able to

- Apply various concepts for e-waste management hierarchy with a holistic understanding of the environmental impacts of e-waste
- Decipher the roles of the various national and internal acts and laws applicable for e-waste management
- Evolve plans for handling e-waste to comply with its management proposed under national and global legislation
- Develop a holistic understanding of environmental impacts of e-waste, application of

SYLLABUS OF GE-EVS-8

Theory (02 Credits: 30 lectures)

UNIT – I E-waste Composition, Generation and Management (8 Hours)

Definition, Composition and generation, Global and national perspective, Co-pollutants, Hazardous properties, Effects on human health and environment, Domestic e-waste disposal, E-waste Management: Basic principles, Components, Resource recovery potential, Technologies for recovery of resources, Steps in recycling and recovery of materials-mechanical processing, Occupational and environmental health effects (8 Lectures)

UNIT – II Global trade of E-waste (7 Hours)

Factors in global waste trade economy, Waste trading and electronic recycling, Free trade agreements as a means of waste trading. Import of hazardous e-waste in India; India's stand on

liberalizing import rules, E-waste economy in the organized and unorganized sector, Production and recycling of e-wastes in Indian metro cities.

UNIT – III Control measures (7 Hours)

Need for stringent health safeguards and environmental protection laws in India, Extended Producers Responsibility (EPR), Import of e-waste permissions, Producer-Public-Government cooperation, Administrative Controls & Engineering controls, monitoring of compliance of Rules, Effective regulatory mechanism strengthened by manpower and technical expertise, Reduction of waste at source.

UNIT – IV Relevant legislation (8 Hours)

Hazardous Waste Rules, 2008, E-waste (Management and Handling) Rules, 2011; and E-Waste (Management) Rules, 2016 - Salient Features and its likely implication. Government assistance for TSDFs. The international legislation: The Basel Convention; The Bamako Convention. The Rotterdam Convention. Waste Electrical and Electronic Equipment (WEEE) Directive in the European Union, Restrictions of Hazardous Substances (RoHS) Directive. (8 Lectures)

Practicals/Hands-on Exercises – based on theory (02 Credits: 60 hours)

1. Prepare inventory and estimate the magnitude of electrical and electronic waste from the home, college, or the selected site (hospitals/company/manufacturing facilities) (example, air conditioners, heaters, microwaves, batteries, digital cameras, calculators, circuit boards, monitors, VCRs/DVD players, telephone equipment, etc.)
2. Categorize e-waste into different types as per international and national guidelines
3. Prepare a list of certified electronics recyclers in your city and transport e-waste to it, and have an interactive session to learn from the processes being followed.
4. Find out the composition of e-waste and segregate it from the given materials. Recommend the internationally acceptable shredding processes for each type of e-waste.
5. Prepare a poster showing salient features of the e-waste management act of India
6. Sort electronics and prepare a list of valuables that can be extracted from electronics, such as fluorescent light and toner cartridges (metals, plastics, glass, compounds, and other elements). Identify and remove e-waste that may carry hazardous materials (like cathode ray tubes) before sending the objects for recycling.
7. Visit a nearby e-waste handling facility and learn about the dismantling of e-waste and the handling process
8. Discuss with students in groups the plausible ways and implementation of e-waste reduction at the source and how regulatory mechanisms can be utilized in the management of e-waste in educational institutions.
9. Evaluate the status of e-waste handling at your institution. Suggest potential solutions as per the existing norms of E-Waste (Management) Rules, 2016 and beyond.
10. Decipher the methods of dust extractions, magnetic and water separation, purification, and preparation for sale. Identify the material that can be repurposed.
11. Study the evolutionary history of e-waste management rules and their implementation- Hazardous Waste Rules, 2008; E-waste (Management and Handling) Rules, 2011; and E-Waste (Management) Rules, 2016
12. Compare and analyze international laws on e-waste management- the international legislations: The Basel Convention; The Bamako Convention; The Rotterdam

- Convention; Waste Electrical and Electronic Equipment (WEEE) Directive in the European Union; Restrictions of Hazardous Substances (RoHS) Directive
13. Develop an understanding and itinerary of the process for procuring e-waste import permissions and inventory of the e-waste disposal mechanisms.

Essential/recommended readings

- Hester, R.E. and Harrison, R.M., 2009. *Electronic Waste Management: Design, Analysis and Application*. Royal Society of Chemistry Publishing, Cambridge, UK.
- Fowler, B.A., 2017. *Electronic Waste: Toxicology and Public Health Issues*. Academic Press.
- Eduljee, G.H. and Harrison, R.M. eds., 2019. *Electronic Waste Management*. Royal Society of Chemistry.

Suggested readings

- Janyasuthiwong, S., 2020. *Metal Removal and Recovery from Mining Wastewater and E-waste Leachate*. CRC Press.
- Gaidajis, G., Angelakoglou, K. and Aktsoglou, D., 2010. E-waste: environmental problems and current management. *Journal of Engineering Science and Technology Review*, 3(1), pp.193-199.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

Geology

CATEGORY-IV

COMMON POOL OF GENERIC ELECTIVES (GE) COURSES OFFERED BY DEPARTMENT OF GEOLOGY

GENERIC ELECTIVES (GE-2): Physics & Chemistry of Earth

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Physics & Chemistry of Earth (GE-2)	4	3	1	0	Class-XII	---

Learning Objectives

To develop an understanding of the surface and internal structure of the Earth and its mineralogy and chemistry; To equip the students about the present and past processes operative in shaping the physical and chemical make-up of the planet Earth

Learning outcomes

After completion of this course students will learn about:

- Physical, mineralogical and chemical structure of the earth
- Major surface features and their evolution through time
- Concept of geological time and its determination
- Earth's magnetic field, its short term and long term variation and its application
- Physical and chemical evolution of earth through time

SYLLABUS OF GE-2 – (Lecture- 45 Hours)

UNIT – I

Earth: surface features: Continents, continental margins, oceans

Earth's materials: Rocks and Minerals

UNIT – II

Earth's interior - variation of physical parameters and seismic wave velocity inside the earth, major sub divisions and discontinuities. Depth-wise mineralogical variation in the Earth. Concepts of Isostasy; Airy and Pratt Model. Core and Mantle: Seismological and other geophysical constraints. The geodynamo - Convection in the mantle. Plate Tectonics. Types of plate margins and their Dynamics.

UNIT – III

Elements of Earth's magnetism: Secular variation and westward drift. Solar activity and magnetic disturbance. Paleomagnetism

UNIT – IV

Elements: Origin of elements/nucleosynthesis. Abundance of the elements in the solar system/planet Earth. Geochemical classification of elements. Earth accretion and early differentiation. Isotopes and their applications in understanding Earth processes.

UNIT – V

Isotopes: Radiogenic and Stable. Radiogenic isotopes and their applications
Stable isotope fractionation. Oxygen isotopes. Sublithospheric Mantle (Mineralogy/phase transitions) Concept of mantle heterogeneity

UNIT – VI

Low-temperature geochemistry; surface and near-surface processes

Essential/recommended readings

- Holmes, A. (1992). Principles of Physical Geology, 1992, Chapman and Hall.
- Anderson, G. M. (1996). Thermodynamics of natural systems. John Wiley & Sons Inc.
- Condie, K.C. (2016) Earth as an evolving planetary system (3rd Edn.) Elsevier

Suggestive readings

- Holmes, A., Principles of Physical Geology, 1992, Chapman and Hall
- Condie, K.C. Plate Tectonics and Crustal Evolution, Pargamon Press, 1989.
- Krauskopf, K. B., & Dennis, K. Bird, 1995, Introduction to Geochemistry. McGraw-Hill
- Faure, G. Principles and Applications of Geochemistry, 2/e (1998), Prentice Hall, 600 pp.
- Anderson, G. M. (1996). Thermodynamics of natural systems. John Wiley & Sons Inc.
- Steiner, E. (2008). The chemistry maths book. Oxford University Press.
- Yates, P. (2007) Chemical calculations. 2nd Ed. CRC Press.
- Condie, K.C. (2016) Earth as an evolving planetary system (3rd Edn.) Elsevier

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Hindi Patrkarita Evam Jansanchar

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
(क) फिल्म अध्ययन (GE)	4	3		1		

Learning Objectives

The Learning Objectives of this course are as follows:

Course Objective

- सिनेमा का सैद्धांतिक एवं व्यावहारिक ज्ञान देना।
- सिनेमा के तत्वों एवं कथा तकनीकों से परिचित कराना एवं सिनेमा के विभिन्न आंदोलनों का परिचय देना।
- सिनेमा निर्माण प्रक्रिया की समझ विकसित करना।
- सिनेमा के माध्यम से भारतीय समाज एवं संस्कृति का बोध कराना।

Course Learning Outcomes

- सिनेमा की भाषा एवं विजुअल्स की समझ विकसित होगी।
- सिनेमा संबंधी तकनीकी कौशल का विकास होगा।
- फिल्मों में अंतर्निहित समाज एवं संस्कृति के अंतरसंबंधों के विश्लेषण में दक्ष होंगे।
- भारतीय सिनेमा की विश्लेषण क्षमता बढ़ेगी।

1. सिनेमा : सामान्य परिचय

3+1x3 = 9+3 (1 से 3 सप्ताह)

- हिन्दी सिनेमा की इतिहास यात्रा - स्वतंत्रता पूर्व, स्वातंत्र्योत्तर सिनेमा, भूमंडलीकरण के दौर का सिनेमा
- सिनेमा के प्रकार - लोकप्रिय सिनेमा, समानान्तर सिनेमा, कला सिनेमा, क्षेत्रीय सिनेमा
- सिनेमा की भाषा (विजुअल्स और शॉट्स के आधार पर) का अध्ययन

2. सिनेमा, समाज और संस्कृति $3+1 \times 3 = 9+3$ (4 से 6 सप्ताह)

- राष्ट्रीय चेतना और हिंदी सिनेमा
- लोक संस्कृति, सिनेमा और जन मनोविज्ञान
- क्षेत्रीय हिन्दी सिनेमा - भोजपुरी, हरियाणवी, राजस्थानी बोलियों का सिनेमा

3. सिनेमा तकनीक $3+1 \times 3 = 9+3$ (7 से 9 सप्ताह)

- सिनेमा में पटकथा, अभिनय, संवाद, ध्वनि, गीत, संगीत, नृत्य, निर्देशन, कैमरा, लाइट, दृश्य और स्पेशल इफेक्ट्स तकनीक
- भारतीय सिनेमा में गीत, संगीत और नृत्य की भाषा
- एनिमेशन, क्रॉसओवर, ऑफ बीट, ओटीटी प्लेटफार्म और वेब सिनेमा

4. सिनेमा का अर्थशास्त्र और प्रबन्धन $3+1 \times 3 = 9+3$ (10 से 12 सप्ताह)

- सिनेमा की मार्केटिंग तकनीक
- सिनेमा का राष्ट्रीय - अन्तर्राष्ट्रीय बाजार
- सिनेमेटोग्राफी एक्ट 1956

प्रायोगिक कार्य $3+1 \times 3 = 9+3$ (13 से 14 सप्ताह)

- दी गई फ़िल्मों में से किसी एक फिल्म की समीक्षा कीजिए – राजा हरिश्चंद्र, मदर इंडिया, दो बीघा जमीन, शहीद, दंगल, मैरीकॉम, स्वदेश, दादा लखमी
- भारतीय संस्कृति को अभिव्यक्त करती किसी एक फिल्म की भाषा
- (विजुअल्स और शॉट्स) पर रिपोर्ट तैयार करना
- किसी एक फिल्म में अभिव्यक्त जीवन मूल्यों का विश्लेषण और प्रभाव की समीक्षा
- भारतीय संस्कृति को अभिव्यक्त करती लघु फिल्म का निर्माण कराना (8- 10 मिनट)
- ओटीटी प्लेटफ़ॉर्म और दायित्व बोध एवं भारतीय सिनेमैटोग्राफी एक्ट 1956 की समीक्षा और संशोधन के सुझाव

Essential/recommended readings

- हिन्दी सिनेमा के सौ बरस : मृत्युंजय, शिल्पायन प्रकाशन
- सत्यजीत राय का सिनेमा : चिदानन्द दास गुप्ता, नेशनल बुक ट्रस्ट, प्रकाशन
- भारतीय सिनेमा का सफरनामा : डॉ पुनीत बिसारिया, अटलांटिक पब्लिशर्स एंड डिस्ट्रीब्यूटर, नई दिल्ली
- फिल्में कैसे बनती हैं : हरमल सिंह, राजस्थान पत्रिका प्रकाशन
- सिनेमा की सोच : अजय ब्रह्मात्मज, वाणी प्रकाशन

Examination scheme and mode:

Total Marks:100

Internal Assessment: 25 Marks

End Semester University Exam:75 marks

The Internal Assessment for the course may include Class participation, Assignments, Class tests, Projects, Field Work, Presentations, amongst others as decided by the faculty.

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
(ख) सोशल मीडिया GE	4	3		1		

Learning Objectives

The Learning Objectives of this course are as follows:

Course Objective

- सोशल मीडिया के मूलतत्व से अवगत कराना।
- नेटवर्किंग तकनीक से अवगत कराना।
- सोशल मीडिया का उद्भव एवं विकास समझाना।
- सोशल मीडिया के वैचारिक, सांस्कृतिक और नैतिक परिदृश्य से परिचित कराना।

Course Learning Outcomes

- समाज एवं संस्कृति पर सोशल मीडिया के प्रभाव से परिचित होंगे।
- डिजिटल मीडिया में रोजगारोन्मुख संभावनाओं से अवगत हो सकेंगे।
- सोशल मीडिया की भूमिका और दायित्वों से परिचित होंगे।

1. सोशल मीडिया : सामान्य परिचय

3+1 x 3 = 9 + 3 (1 से 3 सप्ताह)

- सोशल मीडिया : स्वरूप एवं विकास
- सोशल मीडिया : विशेषताएँ
- लोकतंत्र और सोशल मीडिया

2. सोशल मीडिया : प्रकार और प्रयोग

3+1 x 3 = 9 + 3 (4 से 6 सप्ताह)

- सोशल नेटवर्किंग साइट्स
- सोशल मीडिया ट्रायल, ट्रोलिंग, मीम्स, रील्स,
- ब्रांडिंग एवं व्यावसायिकता उद्देश्य

3. सोशल मीडिया कंटेंट लेखन

3+1 x 3 = 9 + 3 (7 से 9 सप्ताह)

- प्रिंट टीवी, रेडियो एवं डिजिटल मीडिया कंटेंट लेखन में अंतर
- सोशल मीडिया पर सूचना निर्माण, फेक न्यूज़, फेकट चेक
- सोशल मीडिया : रचनात्मकता के नए आयाम – लेखन, शिक्षण और कला के संदर्भ में

4. सोशल मीडिया नियमन और प्रभाव

3+1 x 3 = 9 + 3 (10 से 12 सप्ताह)

- साइबर अपराध एवं सूचना प्रौद्योगिकी अधिनियम
- सामुदायिक निर्माण और जनसंपर्क
- अभिव्यक्ति की स्वतंत्रता एवं स्वनियमन

प्रायोगिक कार्य :

3+1 x 3 = 9 + 3 (13 एवं 14 सप्ताह)

- ई न्यूज़ लेटर, ई पत्रिका, ब्लॉग निर्माण व लेखन।
- केस स्टडी - अन्ना आंदोलन, कोरोना काल, लोकसभा एवं विधानसभा चुनाव, जनजागृति अभियान
- जन-सर्वेक्षण के आधार पर सोशल मीडिया के प्रभावों और लोकप्रियता का विश्लेषण एवं उसकी रिपोर्ट प्रस्तुति।
- सोशल मीडिया के माध्यम से बनी खबरों पर एक रिपोर्ट तैयार करना।

Essential/recommended readings

- दूरसंचार एवं सूचना प्रौद्योगिकी - डी. डी. ओझा, सत्यप्रकाश, ज्ञान गंगा दिल्ली
- न्यू मीडिया इन्टरनेट की भाषाई चुनौतियां - एस आर अनुराधा, राधाकृष्ण प्रकाशन, दिल्ली
- हिन्दी ब्लॉगिंग अभिव्यक्ति की नयी क्रान्ति - अविनाश वाचस्पति, रवीन्द्र प्रभात, हिंदी साहित्य निकेतन, उत्तरप्रदेश
- भूमंडलीकरण और मीडिया - कुमुद शर्मा, ग्रंथ अकादमी, नई दिल्ली
- संस्कृति, विकास और संचार क्रान्ति - पूरनचंद्र जोशी, ग्रंथ शिल्पी, नई दिल्ली
- नया मीडिया अध्ययन और अभ्यास – शालिनी जोशी, शिवप्रसाद जोशी, पेंगुइन बुक्स
- मुक्त समाज की मृगमरीचिका - नॉम चोमस्की

Examination scheme and mode:

Total Marks:100

Internal Assessment: 25 Marks

End Semester University Exam:75 marks

The Internal Assessment for the course may include Class participation, Assignments, Class tests, Projects, Field Work, Presentations, amongst others as decided by the faculty.

Hindi

Category-IV

COMMON POOL OF GENERIC ELECTIVES OFFERED BY DEPARTMENT OF HINDI

पटकथा और संवाद लेखन

COURSE	Nature of the Course	Total Credit	Components			Eligibility Criteria / Prerequisite
			Lecture	Tutorial	Practical	
पटकथा और संवाद लेखन	GE/ Language	4	3	1	0	DSC

Course Objective

- विद्यार्थी को पटकथा लेखन की तकनीक को समझना।
- विद्यार्थियों में साहित्यिक विधाओं का पटकथा में रूपांतरण तथा संवाद लेखन की समझ विकसित करना।

Course learning outcomes

- पटकथा क्या है समझेंगे।
- पटकथा और संवाद में दक्षता हासिल करेंगे।
- पटकथा लेखन को आजीविका का माध्यम बना सकेंगे।

Unit 1

10 घंटे

- पटकथा अवधारणा और स्वरूप
- पटकथा लेखन के तत्व
- पटकथा लेखन की प्रक्रिया

10 घंटे

Unit 2

- फीचर फिल्म की पटकथा
- डॉक्यूमेंट्री की पटकथा
- धारावाहिक की पटकथा

10 घंटे

Unit 3

- संवाद लेखन की प्रक्रिया
- संवाद लेखन की विशेषताएँ
- संवाद संरचना

Unit 4

15 घंटे

- टी.वी. धारावाहिक का संवाद लेखन
- डॉक्यूमेंट्री का संवाद लेखन
- फीचर फिल्म का संवाद लेखन

References

पटकथा लेखन : मनोहर श्याम जोशी
कथा पटकथा : मन्नू भंडारी
रेडियो लेखन : मधुकर गंगाधर
टेलीविजन लेखन : असगर वजाहत, प्रभात रंजन

Teaching learning process

व्याख्यान, सामूहिक चर्चा, फिल्म प्रस्तुति और विश्लेषण

Assessment Methods

सतत मूल्यांकन
असाइनमेंट के द्वारा आंतरिक मूल्यांकन
सामूहिक प्रोजेक्ट के द्वारा मूल्यांकन
सेमेस्टर के अंत में परीक्षा के द्वारा मूल्यांकन

Keywords

सिनेमा, हिंदी सिनेमा, फिल्म समीक्षा, फिल्म तकनीक, सेंसर बोर्ड

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

भाषा और समाज

Generic Elective – (GE) /Language

Core Course - (GE) Credits : 4

COURSE	Nature of the Course	Total Credit	Components			Eligibility Criteria / Prerequisite
			Lecture	Tutorial	Practical	
भाषा और समाज	GE/ Language	4	3	1	0	DSC

Course Objective

- भाषा और समाज के अंतर्संबंध की जानकारी
- समाज में भाषा के व्यवहार की जानकारी
- सफल सम्प्रेषण के लिए कौशल विकास

Course learning outcomes

- समाजभाषाविज्ञान का अध्ययन
- सम्प्रेषण की सामाजिक समझ
- भाषा के समाजशास्त्र का अध्ययन

Unit 1

10 घंटे

भाषा और समाज का अंतर्संबंध
समाज भाषाविज्ञान और उसका स्वरूप
भाषा और सामाजिक व्यवहार

Unit 2

10 घंटे

भाषाई विविधता और भाषिक समुदाय
भाषा और समुदाय
भाषा और जाति

Unit 3

10 घंटे

भाषा और वर्ग
भाषा अस्मिता और जेंडर
भाषा और संस्कृति

Unit 4

15 घंटे

भाषा सर्वेक्षण
भाषा सर्वेक्षण : स्वरूप और प्रविधि
भाषा नमूनों का सर्वेक्षण और विश्लेषण

References

भाषा और समाज – रामविलास शर्मा
हिंदी भाषा चिंतन – दिलीप सिंह
आलोचना की सामाजिकता – मैनेजर पाण्डेय
सांझी सांस्कृतिक विरासत के आईने में भारतीय साहित्य – मंजु मुकुल, हर्ष बाला

Additional Resources:

Socio Linguistics : An Introduction to Language and Society – Peter Trudgill
Socio Linguistics – R. A. Hudson
An Introduction to Socio Linguistics – Ronald Wordhaugh
The Shadow of Language – George Yule

Teaching learning process

व्याख्यान, सामूहिक चर्चा, फिल्म प्रस्तुति और विश्लेषण

Assessment Methods

सतत मूल्यांकन
असाइनमेंट के द्वारा आंतरिक मूल्यांकन
सामूहिक प्रोजेक्ट के द्वारा मूल्यांकन
सेमेस्टर के अंत में परीक्षा के द्वारा मूल्यांकन

Keywords

भाषाविज्ञान के पारिभाषित शब्द

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

हिंदी भाषा और लिपि का इतिहास

COURSE	Nature of the Course	Total Credit	Components			Eligibility Criteria / Prerequisite
			Lecture	Tutorial	Practical	
हिंदी भाषा और लिपि का इतिहास	GE/ Language	4	3	1	0	DSC

Course Objective

इस पाठ्यक्रम का उद्देश्य हिंदी भाषा और लिपि के आरंभिक रूप से लेकर आधुनिक काल की विकास यात्रा को बताना है। भारत के संविधान में देवनागरी लिपि में लिखित हिंदी को संघ की राजभाषा घोषित किया गया है। हिंदी को पढ़ने वाले विद्यार्थियों के लिए पाठ्यक्रम के आरंभ में ही हिंदी भाषा संबंधी सामान्य जानकारी देना अत्यंत आवश्यक है। साथ ही पूरी दुनिया वैश्वीकरण युग में प्रवेश कर गई है। बाज़ार और व्यवसाय ने देशों की सीमाएँ लाँघ ली है। अतः ऐसे में भाषा का मजबूत होना आवश्यक है। यह पाठ्यक्रम बाज़ारवाद और भूमंडलीकरण की वैश्विक गति के बीच से ही हिंदी भाषा और उसकी लिपि के माध्यम से ही राष्ट्रीय प्रगति को भी सुनिश्चित करेगा क्योंकि सशक्त भाषा के बिना किसी राष्ट्र की उन्नति संभव नहीं है। यह पाठ्यक्रम वर्तमान संदर्भों के अनुकूल है। साथ ही इस पाठ्यक्रम का आधुनिक रूप रोजगारपरक भी है। कंप्यूटर को हिंदी से जोड़ना विद्यार्थियों को व्यावहारिक पहलू से अवगत करा सकेगा।

Course learning outcomes

1. इस पाठ्यक्रम के शिक्षण के निम्नलिखित परिणाम सामने आएँगे:
2. उपर्युक्त पाठ्यक्रम के माध्यम से हिंदी भाषा के सैद्धांतिक पहलू के साथ व्यावहारिक रूप का ज्ञान प्राप्त किया जा सकेगा
3. हिंदी भाषा की उच्च शैक्षिक स्तर की भूमिका के महत्वपूर्ण पक्ष को जाना जा सकेगा।
4. कंप्यूटर को हिंदी भाषा से जोड़ने पर हिंदी भाषा के व्यावहारिक ज्ञान को प्राप्त किया जा सकता है
5. वैश्विक युग में भाषा को सिद्धांतों के साथ-साथ व्यावहारिक रूप से भी जोड़ना होगा। अतः पाठ्यक्रम वर्तमान संदर्भों के भी अनुकूल है।
6. भाषा के बदलते परिदृश्य को आरंभ से अब तक की प्रक्रिया में समझना बहुत आवश्यक है। यह पाठ्यक्रम भाषा के आरंभ से लेकर वर्तमान को विविध आयामों में प्रस्तुत करता है जो विद्यार्थियों के लिए उपयोगी होगा।
7. शिक्षा को रोजगार से जोड़ना अत्यंत अनिवार्य है। यह पाठ्यक्रम भाषा की इस मांग को भी प्रस्तुत करता है।

Unit 1 हिंदी भाषा के विकास की पूर्वपीठिका

10 घंटे

- भारोपीय भाषा-परिवार एवं आर्यभाषाएँ (पालि, प्राकृत, अपभ्रंश आदि)
- हिंदी का आरंभिक रूप
- 'हिंदी' शब्द का अर्थ एवं प्रयोग
- हिंदी का विकास (आदिकाल, मध्यकाल, आधुनिककाल)

Unit 2 हिंदी भाषा का क्षेत्र एवं विस्तार

10 घंटे

- हिंदी भाषा : क्षेत्र एवं बोलियाँ

- हिंदी के विविध रूप (बोलचाल की भाषा, राष्ट्रभाषा, राजभाषा, संपर्क-भाषा)
- हिंदी का अखिल भारतीय स्वरूप

Unit 3 लिपि का इतिहास 10 घंटे

- भाषा और लिपि का अंतर्संबंध
- लिपि के आरंभिक रूप (चित्रलिपि, भावलिपि, ध्वनि-लिपि)
- भारत में लिपि का विकास

Unit 4 देवनागरी लिपि 15 घंटे

- देवनागरी लिपि का परिचय एवं विकास
- देवनागरी लिपि का मानकीकरण
- देवनागरी लिपि की विशेषताएँ
- देवनागरी लिपि और कम्प्यूटर

References

1. हिंदी भाषा का इतिहास – धीरेंद्र वर्मा
2. भारतीय पुरालिपि – डॉ. रामबली पाण्डेय (लोकभारती प्रकाशन)
3. हिंदी भाषा का उद्गम और विकास – उदयनारायण तिवारी
4. हिंदी भाषा की पहचान से प्रतिष्ठा तक – डॉ. हनुमानप्रसाद शुक्ल
5. लिपि की कहानी – गुणाकर मुले
6. भाषा और समाज – रामविलास शर्मा

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

History

Category-IV

COMMON POOL OF GENERIC ELECTIVES (GE) COURSES OFFERED BY DEPARTMENT OF HISTORY

GENERIC ELECTIVES (GE-1): Delhi through the Ages: From Colonial to Contemporary Times

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Delhi through the Ages: From Colonial to Contemporary Times	4	3	1	0	12 th Pass	Should have studied Delhi through the Ages: The Making of its Early Modern History

Learning Objectives

This course examines the physical and social transformation of Delhi from colonial to contemporary times. Focusing on the echoes of political developments on urban form and social experience, it aims to explore the historical antecedents of some of the capital's contemporary dilemmas.

Learning outcomes

Upon completion of this course the student shall be able to:

- Analyse the political developments and their legacy for the shaping of the city.
- Discern the importance of 'local' social, ecological and cultural processes that shape and reshape the city
- Explain the historical roots of the problems of sustainable urbanization with regard to Delhi.

SYLLABUS OF GE-1

Unit I: Delhi in the 19th Century - Mughal Court, Company Raj, 1857 and its Aftermath (16 Hours)

Unit II: Building New Delhi - Imperial Ideology and Urban Morphology (12 Hours)

Unit III: Delhi in 1947- Partition and its Aftermath (16 Hours)

Unit IV: Making of Contemporary Delhi – Spaces, Politics and Socialites (16 Hours)

Essential Readings

Unit I. This unit should familiarise students with the city in light of the colonial past and the present. It will also help them locate the political developments for shaping of the city. The unit examine political developments and their legacy during 1857 and how the rebellion in Delhi influenced its evolution.

- Gupta, Narayani. (1999). *Delhi between the Empires: 1803-1931*. Delhi: OUP, pp. 1-20
- Farooqui, Amar. (2013). *Zafar and the Raj: Anglo-Mughal Delhi, 1800-1850*, Delhi: Primus Books, pp.106-133, (chap. 6: “The Palace and the City”)
- Farooqui, Mahmood. (2006). *Ghadar*. Sarai Reader, 2006, pp. 254-270
- C. M. Naim. (2004). ‘Ghalib’s Delhi: A Shamelessly Revisionist Look at Two Popular Metaphors,’ in *Urdu Texts and Contexts: The Selected Essays of C. M. Naim*, Delhi: Permanent Black, pp. 250-279.
- Gail Minault. (2003). “Master Ramchandra of Delhi College: Teacher, Journalist, and Cultural Intermediary,” *Annual of Urdu Studies*, Vol. 18, pp. 95-104
- --- ; (1999). *Delhi between the Empires: 1803-1931*. Delhi: Oxford University Press, pp. 20-31, 50-66
- Lahiri, Nayanjot. (2003). “Commemorating and Remembering 1857: The Revolt in Delhi and its Afterlife,’ *World Archaeology*, vol. 35, no.1, pp. 35-60 .
- Dalrymple, William, (2006). *The Last Mughal: The Fall of a Dynasty*, Delhi: Penguin/Viking, pp. 193-229, 346-392. (Chap 6 “The Day of Ruin and Riot” and Chap. 10 “To Shoot Every Soul”.
- Verma, Pavan K. (2008). *Ghalib: The Man*, the Times, Penguin India.

Unit II. This segment enquires into the historical antecedents of some of the capital’s contemporary issues. The section should apprise the students of the historical roots of the problems of sustainable urbanization with regard to Delhi.

- Metcalf, Thomas. (1989). *Imperial Visions*. Delhi: Oxford University Press, pp. 211-239, (Ch. 7 ‘New Delhi: The Beginning of the End’).
- Johnson, David A. (2015). *New Delhi: The Last Imperial City*. Basingstoke: Palgrave 2015. (Chap. 8, “Land Acquisition, Landlessness and the Building of New Delhi”).
- Johnson, David. A (2008). *A British Empire for the Twentieth century: The inauguration of New Delhi, 1931*. *Urban History* 35, 3, Cambridge University Press, U.K.
- Mann, Michael. (2007). “Delhi's Belly: On the Management of Water, Sewage and Excreta in a Changing Urban Environment during the Nineteenth Century,” *Studies in History*, Vol. 23:1, pp. 1-30
- Liddle, Swapna (2017). *Chandni Chowk: The Mughal City of Old Delhi*, Speaking Tree Publications, Pvt. LTD. pp. 25-121.

Unit III. This section explores and reflects Delhi during and post-Partition. It examines physical and social transformation of Delhi from the colonial to the contemporary times.

- Pandey, Gyan. (2001). *Remembering Partition*, Cambridge: Cambridge University Press. (Chapter 6: Folding the National into the Local: Delhi 1947-1948, pp. 121-151)
- Datta, V N. (1986). “Punjabi Refugees and the Urban Development of Greater Delhi,’ in Robert Frykenberg(ed), *Delhi Through the Ages: Essays in Urban History Culture and Society*. Delhi: OUP, pp 442-462.

- Kaur, Ravinder (2008). Narrative absence: An ‘Untouchable’ account of Partition Migration. In *Contribution to Indian Sociology* (no.) 42, 2: Sage Publications, pp. 281-306.
- Tan, Tai Yong and Gyanesh Kudaisya. (2000). *The Aftermath of Partition in South Asia*. New York: Routledge, pp 193-200, (Chap. 7, “Capitol Landscapes”)

Unit IV. The unit examines and locate ‘local’ social, ecological and cultural processes that shape and reshape the city.

- Emma. Tarlo. (2000). “Welcome to History: A Resettlement Colony in the Making,’ in Veronique Dupont et al ed. *Delhi: Urban Spaces and Human Destinies*. Delhi: Manohar, pp. 75-94
- Soni, Anita. (2000). “Urban Conquest of Outer Delhi: Beneficiaries, Intermediaries and Victims”, in Veronique Dupont et al (Ed.). *Delhi: Urban Spaces and Human Destinies*, Delhi: Manohar, pp. 75-94
- Ghosh, Amitav. (1985)., ‘The Ghosts of Mrs Gandhi,’ *The New Yorker*, (Available online: <https://www.amitavghosh.com/essays/ghost.html>)
- Beg, Mirza Farhatullah. (2012). *Bahadur Shah and the Festival of Flower-Sellers*, tr., Mohammed Zakir, Hyderabad: Orient Blackswan.
- Basu, Aparna. (1986). “The Foundations and Early History of Delhi University,” in Robert Frykenberg ed, *Delhi Through the Ages: Essays in Urban History Culture and Society*, Delhi: Oxford University Press, pp 401-430
- Gupta, Narayani. (1994). ‘From Kingsway to Rajpath-the Democratization of Lutyens’ New Delhi,’ in C. Asher and T.R. Metcalf, eds. *Perceptions of South Asia’s Visual Past*. Delhi: Oxford University Press
- Sharma, Ravikant. (2016). “Architecture of intellectual sociality: Tea and coffeeshouses in post-colonial Delhi,” *City, Culture and Society*, vol.7, 275-28

Suggestive readings

- Farooqui, Mahmood. (2013). *Besieged: Voices from Delhi, 1857*. Delhi: Penguin. (Dateline pp. xix-xxvii; In the Name of the Sarkar, pp 407-432.)
- Mann, Michael and Samiksha Sehrawat. (2009). “A City with a View: The Afforestation of the Delhi Ridge, 1883-1913”, *Modern Asian Studies*, Vol. 43, No. 2, pp. 543-570
- Mann, Michael. (2005). ‘Turbulent Delhi: Religious Strife, Social Tension and Political Conflicts, 1803-1857,’ *South Asia: Journal of South Asian Studies*, vol.28, no.1, pp. 5-34
- Pilar, Maria Guerrieri, (2017). ‘The Megacity of Delhi: Colonies, Hybridisation and Old New Paradigms,’ in *Rethinking, Reinterpreting and Restructuring Composite Cities* edited by GülsünSağlam, Meltem Aksoy, Fatima Erkök, Cambridge: Cambridge Scholars Publishing, pp. 18-33
- Russell, Ralph. (1998). “Ghalib: A Self Portrait”, in Ralph Russell, *Ghalib: The Poet and His Age*. Delhi: OUP. Also available at: http://www.columbia.edu/itc/mealac/pritchett/00ghalib/texts/txt_ralphrussell_1972.pdf
- Vazira, Fazila Yacoobali Zamindar. (2007). *The Long Partition and the Making of South Asia: Refugees, Boundaries, Histories*. New York: Columbia University Press. (Chapter I: Muslim Exodus from Delhi.)

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-2): History and Culture: Representations in Texts, Objects and Performance Histories

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
History and Culture: Representations in Texts, Objects and Performance Histories	4	3	1	0	12th Pass	NIL

Learning Objectives

This course aims to explore culture through its intangible and tangible attributes that are discussed in four themes including traditions of kingship and courtly culture; inter-cultural perceptions of ‘other’ religious communities and gender; performing ritual devotions through recitation of songs and processions; and exploring performance of narrative traditions using inanimate objects like, masks, puppets and cloth/paper scrolls. The themes are representations from oral and manuscript cultures from India. Specialized essays have been attached to every theme with the purpose of explaining the meaning, form, and context of these representations from the past. The readings represent ethnic and spatial (across geographical space and time) range and draw on diverse methodologies.

Further, this module seeks to explore the continuity of cultural patterns, iconic representations, and styles of performance into our present times. For example, the iconic raja (king) of the premodern times continues to perform royal ritual and sacrificial ceremonies, into contemporary times when India is a republic. The court jester of the past lingers on into the present as represented by Hajari Bhand. The complex nature of inter-cultural discourse between the Hindus and Muslims continues into the present and we know that neither community represents monolithic form. What shall we make of these multifaceted representations? How do performative traditions evolve over time? In absence of kingly patrons who will patronize the bhand, temple priest, picture showman with his scrolls? What kind of changes have evolved in the narrative traditions? The pedagogy of interdisciplinary approach is thus inbuilt into the structure of this course. Readings and audio-visual material have been knitted into themes to encourage active participation and discussion in the classroom. It will be impossible to claim any ‘comprehensive’ treatment of India’s culture over the duration of one semester. We may, however, be introduced to some significant vignettes of the whole.

Learning outcomes

The Learning Outcomes of this course are as follows:

- Identify complex nature of kingship in medieval times through the case study of Krishnadevaraya of Vijayanagara.

- Understand the nature of interaction between the two dominant communities in the past. The paradigm of ‘clash of civilizations’ appears to be an exaggerated view.
- Appreciate the complex nature of religious communities in the past, when neither the Hindu nor Muslims represented monolithic identities.
- Read the intricate nature of interactions between men and women and the fact that identities were differently expressed than in the colonial times.
- Understand how culture is communicated through narrative strategies and performative acts.
- Appreciate that textuality and performativity are not binary opposites and are mutually interactive.
- Develop analytical skills that are necessary for students of literature, sociology, anthropology, religion, psychology, political science and South Asian studies.

SYLLABUS OF GE-2

Unit I: Kings, bhands & politicians	(16 Hours)
Unit II: Perceiving cultures & Negotiating identities	(16 Hours)
Unit III: Performing Devotion: Rituals, songs & processions	(16 Hours)
Unit IV: Storytelling with objects: Masks, puppets & scrolls	(12 Hours)

Practical component (if any) - NIL

Essential/recommended readings

Unit I: Kingship is identified as a key component of India’s civilizational ethos. In the years following Indian Independence, kingdoms were dissolved, but this did not provoke the disappearance of kings: royal rituals continued to be celebrated as members of the royal families became politicians; and court jesters linger on as buffoons.

- David Dean Shulman, *The King and the Clown in South Indian Myth & Poetry*, Princeton University Press, 1985, Excerpt from Chapter 4, “The Kingdom of Clowns: Brahmins, Jesters & Magicians”, Princeton: Princeton University Press, 1985, pp. 152-213, available in Meenakshi Khanna, ed., *The Cultural History of Medieval India*, New Delhi: Social Science Press, 2012 (2007), pp. 3-24.
- डेवड िीन शलु मन, "मसखरों का राज्य: ब्राह्मण, मसखरेऔर जािगरू ", मध्यकालीन भारत का साांस्कृ ततक इततहास, संपावित, मीनाक्षी
- खन्ना, अनुर् ाि उमाशंकर शमाा ऋर्व, नयी विल्ली: ओररण्टल ब्लैकसर्् ान, 2007, पष्ठ 3-25.
- John Emigh and Ulrike Emigh, “Hajari Bhand of Rajasthan: A Joker in the Deck”, in *The Drama Review: TDR*, Vol. 30, No. 1 (Spring, 1986), pp. 101-130.

Unit II: This rubric draws on four essays based on multilingual textual sources such as inscriptions, poetic texts, chronicles and travellers accounts composed during 8th to 19th centuries. The scholars have problematised issues relating to cultural perceptions and identities of religion and gender. Contrary to popular view that an encounter between the Hindus and Muslims perpetuated clashes, the authors of these essays present a complex understanding of identities that were not perceived as monolithic. These readings will clarify the methodological approaches used by historians to unravel narratives from the past in the quest for explaining the present.

- Brajadulal Chattopadhyaya, “Images of Raiders and Rulers” in B. D. Chattopadhyaya, ed., *Representing the Other: Sanskrit Sources and the Muslims, Eighth to Fourteenth Century*, New Delhi: Manohar, 1998, pp. 101-125
- बज्रु लाल चट्टोपाध्याय, “आक्रामकों और शासकों की छर्वयां”, मध्यकालीन भारत का सांस्कृतिक इततहास, संपावित, मीनाक्षी खन्ना,
- अनुरा ि उमाशंकर शमाा ' ऋर्व', नयी विल्ली: ओररण्टल ब्लैकस् ान, 2007, पष्ठ 107-133
- R. M. Eaton “Multiple Lenses: Differing Perspectives of Fifteenth Century Calicut”, R. M. Eaton ed., *Essays on Islam and Indian History*, New Delhi: OUP, 2002, pp. 76-93
- Carla Petievich, “Gender politics and the Urdu ghazal: Exploratory observations on Rekhta versus Rekhti”, in *The Indian Economic & Social History Review*, vol. 38(3), 223–248
- कालापेवतएर्वच, “वलंग की राजनीवत तथा डि ूगज़ल : रेखता बनाम रखती का खोजपरक अलोकन “, मध्यकालीन भारत का
- सांस्कृतिक इततहास, संपावित, मीनाक्षी खन्ना, अनुरा ि उमाशंकर शमाा ' ऋर्व', नयी विल्ली: ओररण्टल ब्लैकस् ान, 2007,
- पष्ठ 154-184
- Jenny Nilsson, “The Sense of a Lady’: An Exploration of Transvestite Roles in Kathakali and their Relation to Keralan Gender Constructions”, in *The Cambridge Journal of Anthropology*, Vol. 24, No. 3 (2004), pp. 1-40

Unit III. The acts of devotion, whether these are observed in private spaces or in public sphere, formulate expressions of religious identities. Many rituals, like the recitation of songs dedicated to Siva or and the procession of icons in the temple at Madurai; lamentation over the martyrdom of Husain and parading of the replica of his tomb shrine during Muharram, developed during medieval times. Political patronage was necessary for such devotional acts in the past as well as in the present.

- R. Champakalakshmi, “Patikam Pātuvār: Ritual Singing as a Means of Communication in Early Medieval South India”, *Studies in History*, 10(2) (1994), pp. 199–215
- राधा चंपकलक्ष्मी, “पाटीकम्पटुआर : आरवर्भक मध्यकालीन िवक्षण र ारत मेंसंर ाि-माध्यम के रूप मेंधावमाक गायन”, मध्यकालीन
- भारत का सांस्कृतिक इततहास, संपावित, मीनाक्षी खन्ना, अनुरा ि उमाशंकर शमाा ' ऋर्व', नयी विल्ली:ओररण्टल ब्लैकस् ान, 2007, पष्ठ 50-75
- Khalsa, Nirinjan Kaur. “Renegotiating Orthopraxy in the Presence of The Bani Guru.” *Sikh Formations* 10, no. 3 (2014): 313–34
- J.R.I. Cole, *Roots of North Indian Shi`ism in Iran and Iraq: Religion and State in Awadh, 1722-1859*, Berkley: University of California Press, 1988, Chapter 4, “Popular Shi`ism”, pp. 92-119.
- जे. आर. आई. कोल "लोकप्रचवलत वशया धमा", मध्यकालीन भारत का सांस्कृतिक इततहास, संपावित, मीनाक्षी खन्ना, अनुरा ि
- उमाशंकर शमाा'ऋर्व', नयी विल्ली:ओररण्टल ब्लैकस् ान, 2007, पष्ठ 76-104.

- Selva J. Raj, “Public display, communal devotion: Procession at a South Indian Catholic festival”, in Jacobsen, K.A. (Ed.) *South Asian Religions on Display: Religious Processions in South Asia and in the Diaspora* (1st ed.), Routledge, pp. 77-91

Unit IV. In the three narrative traditions discussed in this rubric the human agency (Purusha) exists in specific kind of relation with inanimate objects used in performance. These objects have meanings embedded in the social and political contexts of various cultural traditions and express processes by which notions of ‘self’/ ‘selves’ are constructed & reconstructed.

a) Masks:

- Vishalakshi Nigam Chandra and Veronica Chishi, “Tradition of Story Telling in India through Masks” in *Akhyan Celebration of Masks, Puppets and Picture Showmen Traditions of India*, New Delhi: IGNCA, 2010, pp. 28-33.
- John Emigh, "Crisis and Contestation in the Prahlada Nataka of Ganjam", in Hermann Kulke, ed., *Imaging Orissa*, Prafulla Publication, 2013.

b) Puppets:

- Dhurjjati Sarma and Ahanthem Homen Singh, “Storytelling and Puppet Traditions of India” in *Akhyan Celebration of Masks, Puppets and Picture Showmen Traditions of India*, New Delhi: IGNCA, 2010, pp. 34-41.
- Niels Roed Sorensen, “Tolu Bommalu Kattu: Shadow Theater Re: Andhra Pradesh”, *Journal of South Asian Literature*, Vol. 10, No. 2/4, THEATRE IN INDIA (Winter, Spring, Summer 1975), pp. 1-19.
- For illustrations <https://www.sahapedia.org/tag/shadow-puppetry>

c) Scrolls:

- Jyotindra Jain, “Indian Picture Showmen: Tradition and Transformation” in *Akhyan Celebration of Masks, Puppets and Picture Showmen Traditions of India*, New Delhi: IGNCA, 2010, pp. 14-27.
- Elizabeth Wickett, “The epic of Pabuji ki par in performance”, *World Oral Literature Project. Voices of Vanishing Worlds, Occasional Paper 3*, Cambridge: University of Cambridge, 2010, pp. 1-27.
- Short documentary https://www.youtube.com/watch?v=f4EiAdeKi_E

Suggestive readings -

- Bradford Clark, “Putul Yatra: A Celebration of Indian Puppetry”, in *Asian Theatre Journal*, Vol. 22, No. 2 (Autumn, 2005), pp. 334-347.
- Erika Fischer-Lichte, “Culture as Performance” *Modern Austrian Literature*, Vol. 42, No. 3, Special Issue: Performance (2009), pp. 1-10.
- James G. Lochtefeld, “The Construction of the Kumbha Mela”, in *South Asian Popular Culture*, 2004, Vol. 2:2, PP. 103-126.5
- John D. Smith, *The Epic of Pābūjī. A study, transcription and translation, second revised edition available electronically at <http://bombay.indology.info/pabuji/statement.html>*
- Karan Singh, “Structural Peripheries and Ideological Underpinnings: Performative Narration in Par of Pabuji”, in *Dialogue: A Journal Devoted to Literary Appreciation*, Vol. XII, No. 1, June 2016, pp. 35-45.
- Karine Schomer, “The "Ālhā" Epic in Contemporary Performance”, *The World of Music* Vol. 32, No. 2, India (1990), pp. 58-80.

- Kathy Foley & Dadi Pudumjee, “India” in World Encyclopedia of Puppetry Arts called “WEPA” or “EMAM” for Encyclopédie Mondiale des Arts de la Marionnette, a project of International Unima
- Available in English <https://wepa.unima.org/en/india/>
- Available in Hindi at <https://wepa.unima.org/en/india/>
- Marc Katz, Banaras Muharram and the Coals of Karbala. Written, produced, and narrated by Marc J. Katz. DVD, color, 70 minutes; 2004.
- Meenakshi Khanna, Cultural History of Medieval India, Introduction, New Delhi: Social Science Press, 2007, pp. ix-xxxiv.
- “र वमू का”, मध्यकालीन भारत का सांस्कृतिक इतिहास, संपादित, मीनाक्षी खन्ना, अनुराग उमाशंकर शर्मा 'ऋर्व', नयी दिल्ली:
- ओरएण्टल ब्लैकस्त्रान, 2007, पृष्ठ ix-xxxiv.
- Pabitra Sarkar, “Jatra: The Popular Traditional Theatre of Bengal”, in Journal of South
- Asian Literature, Vol. 10, No. 2/4, THEATRE IN INDIA (Winter, Spring, Summer 1975), pp. 87-107.
- Regula Burckhardt Qureshi, “Sufism and the Globalization of Sacred Music.” In Philip V.
- Bohlman edited, The Cambridge History of World Music, 584–605. The Cambridge
- History of Music. Cambridge: Cambridge University Press, 2013.
- Richard. M. Eaton, “The Articulation of Islamic Space in the Medieval Deccan”, reprinted in Cultural History of Medieval India, ed., Meenakshi Khanna, New Delhi: Social Science Press, 2007, pp. 126-141.
- रचडाईटन, “मध्यकालीन विक्रम मेइस्लावमक स्थान की अर्वाच्यर्व”, मध्यकालीन भारत का सांस्कृतिक इतिहास, संपादित, मीनाक्षी
- खन्ना, अनुराग उमाशंकर शर्मा 'ऋर्व', नयी दिल्ली: ओरएण्टल ब्लैकस्त्रान, 2007, पृष्ठ 134-151.
- Sreekala Sivasankaran, “Akhyana: Masks, Puppets and Picture Showmen Traditions of India - An Introduction” in Akhyana Celebration of Masks, Puppets and Picture Showmen Traditions of India, New Delhi: IGNCA, 2010, pp. 8-11.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-3): Indian Society: A Historical Perspective

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Indian Society: A Historical Perspective	4	3	1	0	12th Pass	NIL

Learning Objectives

Indian society has witnessed the evolution of a composite culture with coming together of multiple traditions after negotiating existing differences in the society, which persist even today. This course uses a socio-historical perspective to trace the processes of continuity and change through which various social categories have emerged and got entrenched, even while the society itself evolved and remained fluid. The first unit uses a variety of primary and secondary texts intends to explore key issues in ancient Indian social history such as varna, jati, class, caste, gender, marriage relations, different types of social and religious thinking and varied cultural experiences. During the medieval period, with the expansion of agrarian societies there was formation and proliferation of castes which had sub-regional specificities and variations. There is a need to take cognizance of the fact that there was considerable economic, social and occupational mobility at both individual and group level. The medieval period also saw conforming and conflicting trends in the religious sphere which manifested itself through the various branches and schools, like the Bhakti cults. After the advent of colonial rule, the national movement witnessed various alternative tendencies which many a times ran counter to the nationalist agenda which gave the national movement its own distinctive identity. The persisting search for uniformity is problematised in the face of existing differences that existed at various levels of the society and also highlight the contestation between forces of exclusion and inclusion. This course makes a conscious attempt to convey historical processes through which various ‘categories’ have emerged and thereby emphasize the fluid character of categorization. The goal is to focus on moments of convergence and divergences in society and how a composite, multi-layered, complex society emerged after negotiating differences in the society, some of which even persists today.

Learning outcomes

The Learning Outcomes of this course are as follows:

- Develop a critical understanding of the historical context of institutions like varna, jati, caste, kinship and marriage relations and early religious thought.
- Examine the complex relations between different social groups beginning from the hunter gatherers to the medieval trading and artisan communities.
- Understand the inherent politics and contradictions in the religious milieu of the medieval period.
- Outline various alternative currents in subaltern voices.
- Have a better understanding of the contemporary issues and challenges in the society

SYLLABUS OF GE-3

Unit I: Varna and jati; kinship and marriage; socio-religious ideologies in Early Traditions: (12 Hours)

1. Varna and jati in Vedic and Brahmanical traditions.

2. Forms of Kinship and regional variations; Marriage, family and households in early traditions,
3. Buddhism and Jainism.

Unit II: Social and occupational categories (some case studies from earliest times to 1700 CE): (16 Hours)

1. Early Hunter gatherers and Pastoral communities,
2. Tribal and Peasant communities,
3. Traders, Crafts persons and artisan communities.

Unit III: Social and Religious Movements (Case studies from 1000 -1800 CE): (16 Hours)

1. Devotional movements and social change

Unit IV: Contemporary society and its challenges: (some case studies) (16 Hours)

1. Subaltern voices and Social movements,
2. Environmental and Urban movement,
3. Gender and social imbalance
4. Plurality and Cultural diversities.

Practical component (if any) - NIL

Essential/recommended readings

Unit I: The unit traces the historical context of social institutions like varna, jati, caste, kinship and marriage relations and explores the social context of Vedic, Brahmanical, Buddhist, Jain and Shramanic thought in early India.

- Frits Staal, *Discovering the Vedas, Origins, Mantras, Rituals, Insights, Part III and IV*, Penguin, 2017, pp.47-63
- S. Jaiswal, Introduction. *Caste, Origin, Function and Dimensions of change*, Delhi: Manohar, 2000, Introduction
- Trautmann, Thomas R. *Dravidian Kinship*, (Cambridge Studies in Social and Cultural Anthropology, Series Number 36) Cambridge University Press, 1982 (Ch-1,4)
- Peter Harvey, *Buddha in his Indian context in an Introduction to Buddhism*, Cambridge University Press, 2017, pp.8-31.
- Paul Dunda, *The Jains*, Psychology Press, 2002, Introduction

Unit II: In this unit an attempt is made at exploration of the variegated societies that existed in the ancient, the lives of hunter- gatherers, pastoralist, peasants and tribal communities from earliest times. It also tracks the formation of authoritarian regimes and with the emergence of pan-regional market economics, there emerged various occupational categories with their unique identities and culture. The idea is to emphasize fluidity and reflect mobility in caste system which would be the key to understanding processes of change and continuity.

- S. Ratnagar, 2004 *The Other Indians, Essays on Pastoralists and Prehistoric Tribal People*, New Delhi: Three Essays Collective, 2004. (Ch-1,2)
- Olivelle, P. *Showbiz in Ancient India, Data from the Arthashastra*, In Osmund Boepeararchi and Ghosh ed, *Early Indian History and Beyond*, Primus Books, 2019, pp.56-65.
- I.H.Siddiqui, *Social Mobility in the Delhi Sultanat* in Irfan Habib (ed.) *Medieval India 1: Researches in the History of India, 1200-1750*, pp. 24-48.
- Carla Sinopoli, *The Political Economy of Craft Production* Cambridge University Press 2003 (Chapter 6,7).

- Chetan Singh, *Forests and Pastoralists and Agrarian Society in Mughal India*. In D.Arnold and R.Gujarat (ed.) *Nature, Culture, Imperialism*, OUP, 1995.pp. 21-48.

Unit III: This unit discusses the role of devotional movement in challenging the Brahmanical superiority which played a catalytic role in social change.

- Ray, Niharranjan, “Socio- Religious Movements of Protest in Medieval India: Synoptical View” *PIHC* 36(1975), pp.LXIII-LXIX.
- David N. Lorenzen, “Dissent in Kabir and the Kabir Panth” in Vijaya Ramaswamy (ed.) *Devotion and Dissent in Indian History*, Foundation Books, 2014. pp.169-187.
- Richard M.Eaton, *The Sufis of Bijapur,1300-1700- Social Roles of Sufis in Medieval Deccan*, Princeton University Press, 2015. Chapter-5
- Philip Constable,” *Setting on the School Verandah: The Ideology and Practice of Untouchable Educational Protest in Late nineteenth century in Western India*, *The Indian Economic and Social History Review*, Oct-Dec,2000 pp.383- 419.

Unit IV: This unit explores how encounters with the colonial state led to many social and political contestations in the Indian subcontinent. These alternative tendencies came to be represented by various subaltern, environmental and gender related movements. Subaltern voices and Social movement, Environmental and Urban movement, Gender and social imbalance, Plurality and Cultural diversities.

- Susan Bayly, *The New Cambridge History of India, Caste, Society and Politics in India from 18th.C to the Modern Age*, Cambridge University Press, 1999 ch-5 and 6.
- Somen Chakraborty: *A Critique of Social Movements in India: Experiences of Chipko, Uttarakhand, and Fishworkers' Movement*, Indian Social Institute, 1999.
- Yogendra Singh, “Social Transformation of the Indian Society in Yogendra Singh (ed.) *Social Change in India: Crisis and Resilience*; New Delhi, pp.41-61.
- K.S.Singh,” *The People of India : Diversities and Affinities*”, pp. 88-100 and ”Pluralism, Synthesis, Unity in Diversities,, *Diversities in Unity*” in K.S.Singh (ed.) *Diversity, Identity and Linkages, Explorations in Historical Ethnography*.
- Richard Fox, “Varna Schemes and Ideological Integration in Indian Society”, *Comparative studies in Society and History*, Vol. 11,1969, pp.27-44.

Suggestive readings

- Roy, Kumkum 1994, *Marriage as communication: An exploration of norms and narratives in Early India*, *Studies in History*, 10 2, n.s pp 183-19
- Aloka Parashar- Sen, 2004 *Introduction in Subordinate and Marginal Groups in Early India*, Oxford University Press, p.1-82.
- Brian Smith, *Classifying the Universe, The Ancient Indian Varna System and the Origins of Caste*, OUP,1994, Introduction
- Suraj Bhan Bhardwaj – *Migration, Mobility and Memories Meos in the process of peasantization and Islamisation in the medieval Period*. In Vijaya Ramaswamy (ed) *Migrations in Medieval and Early Colonial India.*, Routledge, 2016.
- Eleanor Zelliott and Rohini Mokashi – Punekar – *Untouchable Saints -An Indian Phenomenon*, Manohar ,2005 Chapter19- *Bhakti voices on Untouchability*.
- Lindsey Harlan,”*Perfection and Devotion: Sati Tradition in Rajasthan*” in John Stratton Hawley (ed) *Sati- The blessing and the Curse- The Burning of Wives in India*,1994.

- Gail Omvedt, Understanding Caste: From Buddha to Ambedkar and Beyond, Orient Blackswan, 2011.
- S.C.Dubey, Indian Society, NBT, 2001.
- Indian Society Historical Probing, In memory of D.D.Kosambi, Indian Council Of Historical Research, 1974, pp.175-189, 337-349.
- I.H.Siddiqui- Delhi Sultanate : Urbanization and Social change, Viva Books, 2009
- Vijaya Ramaswamy (ed.) Devotion and Dissent in Indian History, Foundation Books , 2014
- Chakravarti, Uma- Understanding Caste in Gendering caste Through a Feminist lens, Calcutta: Stree. Pp.6-23 .
- Raj Mohan Gandhi, The Good Boat Man, Penguin Books, 2018.
- Rajiv Bhargava, “Political Responses to Religious Diversity in Ancient and Modern India”, Studies in History, Vol.1, 2013, pp. 21-41.
- Thomas Metcalf, “The Ordering of Difference” in Sumit Sarkar (ed.) Caste in Modern India, pp.88-112.
- Das Veena, Dipankar Gupta, Paricia Oberoi(eds.), Tradition, Pluralism and Identity : In Honour of T.N.Madan, Sage Publications, New Delhi, 1999.
- Hulas Singh “Social Questioning” in Hulas Singh, Rise of Reason : Intellectual History of 19th C. Maharashtra, Routledge, Delhi, 2015, pp. 88-168.

Hindi Readings:

- G.S Ghurye, जाति, वंश और व्यवसाय: समाज-सत्र के प्राणात्मक ग्रन्थ, राधिका एंड डी संस,
- सुतमत सरकार, आधुनिक काल: भारत 1880 से 1950, राधिका प्रकाशन, 2020
- Gail Omvedt, Jati ke samajha: महात्मा बुद्ध से बाबासाहेब अम्बेडकर, ओरएंड ट ब्लैकस्वान, 2018.
- Gail Omvedt, भारत में बौद्ध धमा: ब्राह्मणवादि और जातिवाद को चुनौती, से, 2018.
- N.R.Farooqi, सूफिवादिकु छ महत्वपूर्ण लेख, ओरएंड ट ब्लैकस्वान,
- Shahabuddin Iraqi ,मध्यकालीन भारत में भूमि आंदोलन। चौखम्बा सुरभारती प्रकाशन, 2012
- Pandey, G. C. (1990). बौद्ध धमा के विकास का इतिहास (बौद्ध धमा के विकास का इतिहास)। लखनऊ: उत्तर प्रेश तहसील संस्थान। (तीसरा संस्करण)
- .त मश्र, एस. सी. (2014.) 'मुगल पूर्व भारत में सामाजिक तगतीलता', मध्यकालीन भारत, अंक - (सं.) इरफान हबीब, त िल्ली: राधिका प्रकाशन, पृ.सं. 51-58.
- बहुगुणा, आर.पी. (2009). मध्यकालीन भारत में तमि और सूफि आंदोलन, त िल्ली: गंतथशल्पी.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-4): Understanding Indian Heritage

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code GE-4	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Understanding Indian Heritage	4	3	1	0	12 th Pass	NIL

Learning Objectives

The aim of this paper is to make students familiar with the concept of heritage and its numerous forms. It will develop the contested character of heritage and why it needs to be conserved. More importantly the paper highlights how both tangible and intangible heritage needs to be accessed. Issues of loot and repatriation and heritage preservation and conservation in turn point out how heritage and culture often becomes tropes to status claims of a country, a nation, a society and a region in front of the international world community. Matters of selective preservation and conservation can be addressed. It seeks to familiarize students with the evolution of heritage legislation and how 'measures from above are not always arbitrary. In some cases they have been a reaction to demands from below. The paper hence would be of particular value to students who are interested in heritage by also highlighting the national significance (international and domestic) raising public consciousness and sensitivity to heritage preservation.

Learning outcomes

The Learning Outcomes of this course are as follows:

- Explain the complex character of heritage.
- Analyse the historical processes which result in the making of heritage.
- Describe the significance of cultural diversity in the creation of heritage.
- Discuss the issues of ownership and legislation to prevent 'loss' of heritage.
- Assess initiative of government bodies and NGO's to conserve and preserve heritage given the prioritization of development as well as in 'conflict' ridden zones/spaces.
- Discuss the importance of heritage for the country, the communities, region and society at large.

SYLLABUS OF GE-3

Unit I: Defining Heritage: (12 Hours)

MEANING of antiquity'; 'archaeological site'; 'tangible and intangible heritage'; "art treasure". Regional case studies of intangible heritage—dances, music, dance drama, oral stories, theatre, folk performances etc—can be given to make the concept more clear.

Unit II: Issues of Loot and Repatriation: Heritage, Ownership and Legislation: (16 Hours)

1. Conventions and Acts—International and National.
2. Antiquity smuggling and repatriation.

Unit III: Heritage Preservation and Conservation: (16 Hours)

1. Development, conflict (specific case study of UNESCO site Nizamuddin Basti or any such space where both tangible and intangible heritage merge; Muziris heritage project etc).
2. Heritage related Government departments, museums and regulatory bodies.
3. Conservation initiatives.

Unit IV: Heritage Interpretation: (16 Hours)

1. Heritage, Modernity and memory.
2. Participatory Heritage, Exhibitions, Heritage walks etc.
3. Digitizing Heritage
4. Management tools for interpretive projects

Practical component (if any) - NIL

Essential/recommended readings

Unit I: The unit will introduce the meanings of heritage associated politics. For a better understanding students will be encouraged to engage with terms like the meaning of antiquity, archaeological site, tangible heritage, intangible heritage and art treasure. The challenges posed in conservation of intangible heritage: case studies of food culture (Old Delhi, Lucknow, Hyderabad, Calicut, Calcutta or any UNESCO heritage site in India) or folk theatre or art (madhubani, Gond etc) can be taken up.

- Charters and Conventions available on UNESCO and ASI websites. (www.unesco.org ; www.asi.nic.in)
- Keynote address by Bouchenaki, Mounir . ‘The Interdependency of the Tangible and Intangible Cultural Heritage.’ ICOMOS 14th General Assembly and Scientific Symposium
- Lahiri, N. (2012), Marshalling the Past—Ancient Indian and its Modern Histories. Ranikhet: Permanent Black (Chapter 4 and 5
- Lowenthal, D. (2010). Possessed by the Past: the Heritage Crusade and the Spoils of History. Cambridge: Cambridge University Press.
- <https://www.lifestyleasia.com/ind/culture/events/durga-puja-unescos-intangible-cultural-heritage-list/>

Unit II: The unit will look into issues of loot, smuggling, illegal sale of artefacts. It also looks at repatriation of such artifacts for which many international and national laws are formulated and put into effect.

- Acts on Unesco website (<https://legislative.gov.in/sites/default/files/A1972-52.pdf> ; https://en.unesco.org/sites/default/files/inde_act52_1972_enorof.pdf ;
- Mankodi, Kirit L. ‘The Case of the Contraband Cargo or, Atru’s Amorous Couple.’ in Temple Architecture and Imagery of South and Southeast Asia, Prasadaniidhi: Papers presented to Professor M A Dhaky, edited by Parul Pandya Dhar and Gerd JR Mevissen, Delhi: Aryan Books International, pp. 369-379.
- Richard Davis, “Indian Art Objects as Loot.” The Journal of Asian Studies, 23 March 2011
- Vijay Kumar, The Idol Thief. Juggernaut

Unit III: The unit will discuss the efforts at heritage preservation by various organizations both Govt funded organizations and NGO’s.

- Biswas, S.S. (1999). Protecting the Cultural Heritage (National Legislation and International Conventions). New Delhi, INTACH.
- Layton, R.P Stone and J. Thomas (2001). Destruction and Conservation of Cultural Property. London: Routledge.

Unit IV: The unit will highlight the use of new techniques and technology in making heritage a 'lived' experience for a wider audience. It hence explores heritage interpretation, management and how people become participants in giving new meanings to both tangible and intangible heritage.

- Anupama Malik, Santanu Chaudhury, Vijay Chandru, Sharda Srinivasan (eds.), Digital Hampi: Preserving Indian Cultural Heritage.
- Howard, Peter (2003). Heritage: Management, Interpretation, Identity. Bloomsbury Publications, United Kingdom.
- Patrick Daly and Tim Winter (ed.), Routledge Handbook of Heritage in Asia. Chapters 1 and 18 (pp 1-36, 283-294).

Suggestive readings

- Himanshu Prabha Ray and Manoj Kumar (eds.) 2014. Indian World Heritage Sites in Con-text. Aryan Books, New Delhi.
- King, Victor T. (ed.) ,2015. UNESCO in Southeast Asia: World Heritage Sites in Comparative Perspective. NIAS Press, Copenhagen.
- Kulkarni, Subhash. 2016. Heritage of India, MRM Publication.
- Shikha Jain, Vinay Sheel Oberoi, 2021. Incredible Treasures: UNESCO World Heritage sites of India, Mapin Publishing, Ahmedabad
- Singh, Upinder, 2021. Idea of Ancient India: Essays on Religion, Politics and Archaeology. Sage Publications, India.
- World Heritage Sites, 8th Edition by UNESCO

Hindi Readings:

- प्रतमलागुप्ता (2016).भारतके तवश्वप्रतसद्दधरोहरस्थल, प्रभातप्रकाशन, नईतिल्ली ।
- रे खाफोगट (2021).भारतके तवशिवास्मरक, पाठकपम्भब्लसरएं डतडस्टीब्युटसानईतिल्ली ।
- अमरतसंह (2012). भारतकीसांस्कृ ततकतवरासत, नेहापम्भब्लसरएं डतडस्टीब्युटसा, शाहिरा ।
- रमास्याल, तवश्वतवख्यातभारतीर्कलाऔरसांस्कृ ततऔरतवरासत । ग्लोबलतविनपम्भब्लससा, नईतिल्ली ।
- तपर्ािशौऔझा (2021). पर्ाटनऔरसांस्कृ ततकतवरासत, तहमांशुपम्भब्लके शन्स, िरर्ागंि ।
- मधुअग्रवालवसीपीअग्रवाल (2019)। सांस्कृ ततकपर्ाटनसेधरोहरकासंरक्षणएवंसंवधान, तहमांशुपम्भब्लके शन्स, िरर्ागंि ।

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.



REGISTRAR

Mathematics

**COMMON POOL OF GENERIC ELECTIVES (GE) COURSES OFFERED
BY THE DEPARTMENT OF MATHEMATICS
(Category-IV)**

GENERIC ELECTIVES (GE-2(i)): ANALYTIC GEOMETRY

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Analytic Geometry	4	3	1	0	Xth pass with Mathematics	NIL

Learning Objectives: The course aims at identifying and sketching curves, studying three dimensional objects, their geometric properties and applications. Use of vector approach to three-dimensional geometry makes the study simple and elegant.

Learning Outcomes: This course will enable the students to:

- Learn concepts in two-dimensional geometry.
- Identify and sketch conics namely, ellipse, parabola and hyperbola.
- Learn about three-dimensional objects such as straight lines and planes using vectors, spheres, cones and cylinders.

SYLLABUS OF GE-2(i)

UNIT – I: Conic Sections

(5 Weeks)

Techniques for sketching parabola, ellipse and hyperbola; Reflection properties of parabola, ellipse, hyperbola, and their applications to signals; Classification of quadratic equation representing lines, parabola, ellipse and hyperbola; Rotation of axes; Second degree equations.

UNIT – II: Vectors, Lines and Planes

(6 Weeks)

Rectangular coordinates in 3-dimensional space, vectors viewed geometrically, vectors in coordinate systems and vectors determined by length and angle; Dot product; Projections; Cross product, scalar triple product, vector triple product and their geometrical properties; Parametric equations of lines, direction cosines and direction ratios of a line, vector and symmetric equations of lines, angle between two lines; Planes in 3-dimensional space, coplanarity of two lines, angle between two planes, distance of a point from a plane, angle between a line and a plane, distance between parallel planes; Shortest distance between two skew lines.

UNIT – III: Sphere, Cone and Cylinder

(4 Weeks)

Equation of a sphere, plane section of sphere, tangents and tangent plane to a sphere; Equation of a cone, enveloping cone of a sphere, Reciprocal cones and right circular cone; Equation of a cylinder, enveloping cylinder and right circular cylinder.

Recommended Readings:

1. Anton, Howard, Bivens, Irl, & Davis, Stephen (2013). *Calculus* (10th ed.). John Wiley & Sons Singapore Pte. Ltd. Indian reprint (2016) by Wiley India Pvt. Ltd. Delhi.
2. Narayan, Shanti & Mittal, P. K. (2007). *Analytical Solid Geometry*. S. Chand & Company Pvt Ltd. India.

Suggestive Readings:

- i. Bell, Robert J.T. (1972). *An Elementary Treatise on Coordinate Geometry of Three Dimensions*. Macmillan & Co. Ltd. London.
- ii. George B. Thomas, Jr., & Ross L. Finney (2012). *Calculus and Analytic Geometry* (9th ed.). Pearson Indian Education Services Pvt Ltd. India.

GENERIC ELECTIVES (GE-2(ii)): INTRODUCTION TO LINEAR ALGEBRA**CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE**

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Introduction to Linear Algebra	4	3	1	0	Xth pass with Mathematics	NIL

Learning Objectives: The objective of the course is to introduce the concept of vectors in \mathbb{R}^n , understanding the nature of solution of system of linear equations, and to view the $m \times n$ matrices as a linear function from \mathbb{R}^n to \mathbb{R}^m and vice versa. The concepts of linear independence and dependence, rank and linear transformations has been explained through matrices.

Learning Outcomes: This course will enable the students to:

- Visualize the space \mathbb{R}^n in terms of vectors and the interrelation of vectors with matrices.
- Understand important uses of eigenvalues and eigenvectors in the diagonalization of matrices.
- Familiarize with concepts of bases, dimension and minimal spanning sets in vector spaces.
- Learn about linear transformation and its corresponding matrix.

SYLLABUS OF GE-2(ii)**UNIT – I: Vectors and Matrices****(6 Weeks)**

Fundamental operations and properties of vectors in \mathbb{R}^n , Linear combinations of vectors, Dot product and their properties, Cauchy-Schwarz and triangle inequality, Orthogonal and parallel vectors; Solving system of linear equations using Gaussian elimination, and Gauss-Jordan row reduction, Reduced row echelon form; Equivalent systems, Rank and row space

of a matrix; Eigenvalues, eigenvectors and characteristic polynomial of a square matrix; Diagonalization.

UNIT – II: Vector Spaces

(4 Weeks)

Definition, examples and some elementary properties of vector spaces; Subspaces, Span, Linear independence and dependence; Basis and dimension of a vector space; Diagonalization and bases.

UNIT – III: Linear Transformations

(5 Weeks)

Definition, examples and elementary properties of linear transformations; The matrix of a linear transformation; Kernel and range of a linear transformation, The dimension theorem, one-to-one and onto linear transformations.

Recommended Reading:

1. Andrilli, S., & Hecker, D. (2016). *Elementary Linear Algebra* (5th ed.). Elsevier India.

Suggestive Reading:

- i. Kolman, Bernard, & Hill, David R. (2001). *Introductory Linear Algebra with Applications* (7th ed.). Pearson Education, Delhi. First Indian Reprint 2003.

Microbiology

**Common Pool of Generic Electives (GE) Courses
Offered by the Department of Microbiology
Category-IV**

GENERIC ELECTIVES (GE-6: MICROBES IN ENVIRONMENTAL MANAGEMENT)

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
MICROBES IN ENVIRONMENTAL MANAGEMENT	4	2	0	2	Class XII pass	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- The main objective of the course is for students to appreciate how various microorganisms are bestowed with the capacity to modulate the environment.
- Students will get acquainted with the role of microbes in biodegradation, biogeochemical cycling, and production of biofuels.
- They will become aware of environmental problems and how microorganisms are used to manage these problems.
- This course will motivate them to think of novel ways to solve various environmental issues, including newer challenges such as e-waste management and plastic degradation using suitable microbes

Learning outcomes

After completion of the course, students will be able to-

- The student will be aware of the importance of microbes in any ecosystem with reference to nutrient cycling/ biogeochemical cycling, and will be acquainted with biofuels and the role of microbes in mineral recovery.
- The student will have gained knowledge about BOD, COD and various methods of waste treatment (solid and liquid) utilizing diverse microorganisms.
- The student will have learnt about microbial bioremediation, including petroleum products, microbial degradation of pesticides, plastics and e-waste management for a cleaner environment.
- The student will have understood the concept of potability of water and will have performed various tests to check the potability of given water samples.

- The student will have isolated several microorganisms with special and unique properties from natural reservoirs of soil and landfills etc. and will understand how they keep reclaiming and rejuvenating our environment.
- The student will be able to combine conventional methods with innovative solutions to preserve and enhance environmental sustainability.

SYLLABUS

UNIT – I (10 Hours)

Role of microbes in biodegradation, biofuels and bioleaching: Role of microbes in biodegradation and maintaining a continuous supply of nutrients like carbon, nitrogen (nitrogen fixation, ammonification and denitrification) and phosphorus in the ecosystem. Microbes as sources of Biofuels: bioethanol, algal biofuels, biogas, microbes in mineral recovery (iron, gold).

UNIT – II (12 Hours)

Microbes in waste management: Sources and types of solid waste, sanitary landfill, composting. Liquid waste management: composition and strength of sewage (BOD and COD). Primary, secondary (aerobic: Oxidation pond, Trickling filter, Activated sludge process; anaerobic: Septic tank, Imhoff tank, anaerobic sludge digester); and tertiary sewage treatment

UNIT – III (8 Hours)

Microbial bioremediation: Bioremediation of contaminated soils (heavy metals and petroleum) and marine pollutants. Microbial degradation of pesticides (2,4-D and 2,4,5-T). Role of microbes in e-waste management and plastic degradation

Practical component –

UNIT – 1 (20 Hours)

Determination of water potability: Water potability, Safety standards of drinking (potable) water. Methods to determine potability of water samples, standard qualitative procedure - presumptive test/MPN test, confirmed and completed tests for faecal coliforms; membrane filtration technique and Presence/Absence tests for coliforms using rapid detection kit

UNIT – 2 (24 Hours)

Isolation of microbes important in environment management: Detection of starch/cellulose-degrading and dye (malachite green/ crystal violet/ methylene blue) decolorising microorganisms from the soil. Isolation of heavy metal-accumulating (copper/ nickel/ zinc/ cobalt/ aluminium) microorganisms from soil, and plastic-degrading microbes from landfills

UNIT – 3 (16 Hours)

Preparation of compost using composting pits on college premises or elsewhere. Student Idea Presentation on environment protection. Visit to a wastewater treatment plant/solid waste treatment site. Understanding eutrophication and algal blooms with the help of pictures

Essential/recommended readings

1. Brock Biology of Microorganisms by M.T. Madigan, J. Aiyer, D. Buckley, W. Sattley and D. Stahl. 16th edition. Pearson, USA. 2021.
2. Prescott's Microbiology by J. M. Willey, K. Sandman and D. Wood. 11th edition. McGrawHill Higher Education, USA. 2019.
3. Soil Microbiology by N.S. Subba Rao. 5th edition. Medtech, India. 2017.
4. Environmental Microbiology edited by I.L. Pepper, C.P. Gerba, T.J. Gentry. 3rd edition. Academic Press, USA. 2014.
5. Advances in Applied Bioremediation edited by A. Singh, R.C. Kuhad and O. P. Ward. Springer-Verlag, Germany. 2009.
6. Microbial Ecology: Fundamentals and Applications by R.M. Atlas, R. Bartha. 4th edition. Benjamin Cummings, USA. 2000.
7. An Introduction to Soil Microbiology by A. Martin. 2nd edition. John Wiley and Sons Co, UK. 1991.

Suggestive readings (if any)

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-7: MICROBES IN INFECTIOUS DISEASES)

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
MICROBES IN INFECTIOUS DISEASES	4	2	0	2	Class XII Pass	NIL

Learning Objectives

The Learning Objectives of this course are as follows:

- The major objective of this course is to give students of other disciplines an overview of the fundamentals of principles of immunology, infection and disease.
- The students will become aware of the whole spectrum of infectious diseases caused by different classes of microbes.
- They will become familiar with methods of disease diagnosis, the identification of the causative microbe and the latest immunological techniques.

Learning outcomes

After completion of the course, students will be able to-

- The student will have acquired knowledge about the basic concepts associated with infectious diseases and the principles and types of infection.
- The student will have been introduced to the different immune organs, immune cells, and their functions. Will understand the role of antigens and antibodies in fighting infection.
- The student will have learnt about the different types of microbial diseases, their symptoms, and mode of transmission.
- The student will know how to determine the complete blood count (TLC and DLC). Will be able to identify the human blood groups and different immune cells.
- The student will have gained knowledge about the different selective and differential media for culturing bacteria. Will have learnt the principle and working of PCR-based tests for disease diagnosis.
- The student will be able to identify pathogenic bacteria by performing biochemical tests.

SYLLABUS

UNIT – I (6 Hours)

Introduction to basic concepts of infection and disease: Infection, colonization, pathogenicity, virulence and its determinants (adhesion, enzymes, toxins - exotoxins and endotoxins), transmission (direct and indirect) of infectious diseases. Types of infections (acute, latent, chronic), opportunistic and nosocomial infections. Reservoir and source of infection.

UNIT – II (12 Hours)

Basic principles of immunology: Basic concepts of innate and adaptive immunity. Cells and organs of the immune system. Characteristics of antigen (foreignness, molecular size and heterogeneity), haptens, adjuvant. Structure, types and functions of antibodies. Cell mediated immunity. Primary and secondary immune response. Principles of immunization and types of vaccines

UNIT – III (12 Hours)

Infectious diseases and their transmission: Symptoms and mode of transmission of diseases. Bacterial: tuberculosis, tetanus, anthrax. Viral: chicken pox, measles, mumps, polio, COVID-19, AIDS, dengue. Fungal: athlete's foot, histoplasmosis, candidiasis. Protozoan: malaria, amoebiasis

Practical component – 60 Hours

UNIT – 1 (20 Hours)

Immunological techniques: Use of the haemocytometer. Analyzing total leucocyte count and differential leukocyte count in blood sample: determining percent count neutrophils, lymphocytes, eosinophils, basophils and monocytes in a blood smear. Identification of human blood groups and different immune cells

UNIT – 2 (20 Hours)

Culturing of microorganisms and diagnosis: Use of various selective and differential media for culturing and identification of bacteria: mannitol salt agar, deoxycholate citrate agar / Salmonella Shigella (SS) agar, MacConkey / EMB Agar. Use of PCR based techniques to identify the infectious agent. Student group project: Different methods used to diagnose the following diseases: COVID19, tuberculosis

UNIT – 3 (20 Hours)

Biochemical tests for identifying bacteria: Bacterial identification based on morphological features: Gram staining, capsule, endospore and motility characteristics. Bacterial identification based on biochemical characteristics: IMViC (Indole test, Methyl Red test, Voges-Proskauer test, Citrate test), Triple Sugar Iron (TSI) test, and catalase test. Kit based identification of a microbial pathogen.

Essential/recommended readings

1. Textbook of Microbiology by R. Ananthanarayan and C.K.J. Paniker. 11th edition. Universities Press, India. 2020.
2. Prescott's Microbiology by J. M. Willey, K. Sandman, K. and D. Wood. 11th edition. McGraw Hill Higher Education, USA. 2019
3. Basic Immunology: Functions and Disorders of the Immune System by A. K. Abbas, A. H. Lichtman, S. Pillai. 6th edition. Elsevier, India. 2019.
4. Kuby Immunology by J. Punt, S. Stranford, P. Jones, and J. Owen. 8th edition. W.H. Freeman and Company, USA. 2018.
5. Jawetz, Melnick and Adelberg's Medical Microbiology by K.C. Carroll, S. A. Morse, T.A. Mietzner, and S. Miller. 28th edition. McGraw Hill Education, USA. 2016. Immunology by C. Richard and S. Geoffrey. 6th edition. Wiley- Blackwell Scientific Publication, UK. 2009.

Suggestive readings (if any)

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

Physical Education

Common Pool of Generic Electives (GEs) offered by

Department of Physical Education

SEMESTER-II

GE paper- PROFESSIONAL PREPARATION AND CAREER AVENUES IN PHYSICAL EDUCATION ANDSPORTS

GE : PROFESSIONAL PREPARATION AND CAREER AVENUES IN PHYSICAL EDUCATION ANDSPORTS

Course Title & Code	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-Requisite of the Course (if any)
		Lecture	Tutorial	Practical/Practice		
Professional Preparation and Career Avenues in Physical Education and Sports	04	3	0	1	XII class pass	NIL

Learning Objectives:

1. To develop an understanding of the professional preparation in physical education.
2. To develop skills to meet professional requirements.
3. To understand the need for professional development.
4. To acquire skill and competencies for professional development.
5. To gain knowledge of curriculum development.
6. To acquire skill to analyze, develop and evaluate curriculum

Learning Outcomes:

1. The learner will be able to demonstrate professional preparation in physical education and compare the same with other countries for exploring best possibilities.
2. The learner will develop skills to meet professional requirements for best applications and analysis.
3. The learner will be able to do comparative analysis of professional preparation program in U.S., Europe and China as well as to compare the same with India.
4. The learner will acquire skill and competencies for professional development to relate courses available in physical education and sports and role of physical education teacher and institutes in professional preparation programmes.
5. The learner will be able to develop curriculum to correlate career avenues after under graduation and post-graduation and research degrees, planning for a career: self-assessment, motivational dynamics, decision making, counseling and guidance, challenges and opportunities in physical education.
6. The learner will acquire skills to analyze, develop and evaluate curriculum to correlate career avenues after under graduation and post-graduation and research degrees, planning for a career: self-assessment, motivational dynamics, decision making, counseling and guidance, challenges and opportunities in physical education.

THEORY SYLLABUS

FUNDAMENTALS OF PROFESSIONAL PREPARATION

UNIT-I

HISTORICAL PERSPECTIVE

(09 hrs lecture)

- Professional Preparation in India
 - Pre Independence perspective
 - Post Independence perspective

- Comparative analysis of professional preparation program in U.S., Europe and China

UNIT-II PROFESSIONAL PREPARATION PROGRAMMES (09 hrs lecture)

- Foundation: need, objectives and characteristic of professional preparation programmes
- Courses available in physical education and sports.
- Role of physical education teacher and institutes in professional preparation programmes

UNIT-III PHYSICAL EDUCATION AND PROFESSIONALISM (09 hrs lecture)

- Concept and meaning of Profession, Professional and Professionalism.
- Physical education as a profession.

UNIT-IV CAREER AVENUES & JOB OPPORTUNITIES IN PHYSICAL EDUCATION & SPORTS (09 hrs lecture)

- Career avenues after under graduation and post graduation and research degrees.
- Planning for a career : self-assessment, motivational dynamics, decision making, counseling and guidance

UNIT-V EXPLORING AND VENTURING INTO NEW AVENUES (09 hrs lecture)

- Challenges and opportunities in physical education
- Inter-relationship among various careers in physical education and sports

PRACTICAL SYLLABUS :

30 hrs

1. Case study on national sports policy/national education policy

Suggested Readings:

1. Adams William C. Foundation of Physical Education Exercise and Sports Sciences, Philadelphia, 1991
2. Gupta Rakesh, Sharma Akhilesh, and Sharma Santosh, Professional Preparation and Curriculum Design in Physical Education & sports Sciences, New Delhi, Friends Publications, 2004
3. Hoover. Kenneth H., The Professional Teacher's Handbook, Boston, Allyn and Bacon, 1972
4. Krik David, Physical Education and Curriculum Study, Kent, Croom Helm, 1988
5. Sandhu Kiran, Professional Preparation and Career Development in Physical Education, New Delhi, Friends Publications, 2004
6. Sandhu Kiran, Trends and Development in Professional Preparation in Physical Education, New Delhi, Friends Publication, 2006
7. Wessel Janet A, and Kelly Luke, Achievement-Based Curriculum Development in Physical Education, Philadelphia, Lea and Febiger, 1986
8. Zeigler E.F, Professional and Scholarly Foundation of Physical Education and Kinesiology, Sports Educational Technologies, 2007

Semester II
GE-Paper: STRESS MANAGEMENT

GE : STRESS MANAGEMENT

Course Title & Code	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-Requisite of the Course (if any)
		Lecture	Tutorial	Practical/Practice		
Stress Management	04	3	1	0	XII class pass	NIL

Learning Objectives:

1. To acquaint the learner with the knowledge, practices and understanding of anger, stress and its management and other related aspects important to sports persons.
2. The learners will be introduced with the basic concepts of stress and anger, causes and effects of stress and anger, main emotions of stress-fear and anger, daily life stressors, process of stress, anger and psycho physiology of stress.
3. The learner will gain knowledge and concept of self-awareness and stress management, muscular tension reduction, emotional tension reduction, stress free living, stress free examination, stress management through physical activity and stress management through recreation activities.
4. The learner will gain knowledge of anger management- Redford William's 12 steps of anger management, stress management- behavior modification, time management, coping strategy & intervention skills. It also helps to learn relaxation technique- diaphragmatic breathing, meditation, progressive muscle relaxation, Yoga, mental imagery, music therapy, and massage therapy.

Learning Outcomes:

1. The learner will be able to apply the knowledge, learning and understanding to the concept of anger, stress and how to manage it.
2. The learner will be able to correlate the concepts and practices of the stress and anger.
3. The learner will be able to understand and adapt to stress - reframing of habitual stress resistance, types of stress, personal and social stress, occupational stress, peer stress / learners stress, family stress, stress & elderly and Stress & drug abuse. It helps to know about the stress related diseases- sleep disorder, eating disorder, sexual and emotional disorder, other stress related diseases, stress & spirituality.
4. The learner will be able to correlate the concepts and practices for best management of stress.

THEORY SYLLABUS:

Unit-I

(15 hrs Lectures)

Definition of stress and anger, Causes and effects of stress and anger, two main emotions of stress-fear and anger, Daily life stressors, Process of stress and anger- Psycho Physiology of stress.

Unit-II

(15 hrs Lectures)

Adaptation to stress-Reframing of habitual stress resistance, types of stress-personal and social stress Occupational stress, Peer stress / Students stress, Family stress, Stress & elderly and Stress & drug abuse.
Stress related diseases- i) Sleep disorder, ii) Eating disorder, iii) Sexual and emotional disorder, iv) Other stress related diseases, v) Stress & Spirituality.

Unit-III (15 hrs Lectures)

Self-awareness and stress management, Muscular tension reduction, Emotional tension reduction, Stress free living, Stress free examination, Stress management through physical activity, Stress management through recreation.

Unit-IV (15 hrs Lectures)

Anger management- Redford William's 12 steps of anger management

Stress management- behavior modification, time management, coping strategy & intervention skills.

Relaxation technique- i) Diaphragmatic breathing, ii) Meditation, iii) Progressive muscle relaxation, iv) Yoga, v) Mental imagery, vi) Music therapy, vii) Massage therapy

SUGGESTED READINGS

1. Adrain F & Herrick E. and Sharp P (1998). Anger Management. Routledge Publishing. Florence. Kentucky. U.S.A.
2. Allen E (2008). Stress Management for Dummies. For Dummies Publishers. U.S.A.
3. Davis M. et al (2008). The Relaxation and Stress Reduction workbook. Harbinger Publications, USA.
4. Greenberg J.S. (2008). Comprehensive stress management. McGraw Hill, USA
5. Hipp E. (2008). Fighting Invisible Tigers: Stress Management for Teens. Free Spirit Publishing, USA.
6. Mac W. (2007). Anger and Stress Management. God's Way. Calvary Press, USA.
7. Petee F (2006). Anger Management. Pentagon. Press. New York. U.S.A.
8. Swate Y B (2009). Anger Management. Sage Publication. New Delhi.
9. NCERT & CBSE publication and reading for stress management.

Political Science

**COMMON POOL OF GENERIC ELECTIVES (GE) COURSES OFFERED BY THE
DEPARTMENT OF POLITICAL SCIENCE**

Credit distribution, Eligibility and Pre-requisites of the Course

GENERIC ELECTIVES (GE-1): Ideas in Indian Political Thought

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Ideas in Indian Political Thought GE-1	4	3	1	0	12th Pass	NIL

Learning Objectives

This paper is designed for students who are from other disciplines and wish to have a basic understanding of the various themes that has shaped Indian society and politics. It revolves around key concepts based on original texts which would help the students to critically engage with the ideas.

Learning outcomes

After completion of this course, students will be able to

- answer about the nature and form of statecraft that existed in Ancient India.
- explain how the texts in ancient India interpreted Dharma and Danda
- answer what were sources and mechanisms to practice Nyay in ancient India.
- make distinction between Rastra and Rajya.
- explain the meaning and foundations of Varna and how are they different from caste.

SYLLABUS OF GE-1

UNIT – I (6 Hours)

Dharma and Danda: Kautilya

UNIT – II (6 Hours)

Gender: Tarabai Shinde

UNIT – III (6 Hours)

Culture and Nationalism: Vivekananda

UNIT – IV (6 Hours)

Swaraj: Gandhi

UNIT – V (6 Hours)

Nyaya: Ambedkar

UNIT – VI (7.5 Hours)

Hindutva: Savarkar

UNIT – VII (7.5 Hours)

Integral Humanism: Deen Dayal Upadhyaya

Essential/recommended readings

1. Dharma and Danda: Kautilya

Mehta, V.R. (1992) 'The Pragmatic Vision: Kautilya and His Successor', in Foundations of Indian Political Thought, Delhi: Manohar, pp. 88- 109.

Sharma, R S (2005), Aspects of Political Ideas and Institutions in Ancient India, Motilal Banarsidass, New Delhi pp 143-164

2. Gender: Tarabai Shinde

O' Hanlon, Rosalind (2002) A comparison between women and men: Tarabai Shinde and the critique of Gender Relations in Colonial India. New Delhi: Oxford University Press.

Lele, Jayant (1998) Gender Consciousness in Mid-Nineteenth Century Maharashtra, in Anne Feldhaus *Images of women in Maharashtra Society*. The University of New York Press: New York

3. Culture and Nationalism: Vivekananda

Sen, Amiya P. (2011), 'Vivekanand: Cultural Nationalism', in M. P. Singh and Himanshu Roy (ed.), *Indian Political Thought: Themes and Thinkers* Delhi. Pearson

Kiggley, Dermot (1990) 'Vivekananda's western message from the East' in William Radice (ed) *Swami Vivekananda and modernization of Hinduism*, New Delhi: Oxford University Press.

4. Swaraj: Gandhi

Parel, A. (ed.) (2002), 'Introduction', in *Gandhi, freedom and Self Rule*, Delhi: Vistaar Publication.

Dalton, Denis (1982) *Indian Idea of freedom*, Gurgaon: Academic Press, pp 154-190

5. Nyaya: Ambedkar

Pantham, Thomas and Kenneth Deutsch (ed) (1986) *Political Thought in Modern India*, New Delhi: Sage, pp 161-175

Rodrigues, Valerian (2002) *The Essential writings of B.R Ambedkar*, Delhi: Oxford University Press, pp 1-44

6. Hindutva: Savarkar

Savarkar, Vinayak Damodar (1922-23) *Essentials of Hindutva*, 1922, available at: http://savarkar.org/en/encyc/2017/5/23/2_12_12_04_essentials_of_hindutva.v001.pdf_1.pdf

Sampath, Vikram (2021) *Savarkar: A Contested Legacy, 1924-1966*, Gurugram: Penguin Random House India

7. Integral Humanism: Deen Dayal Upadhyaya

Upadhyaya, Deendayal. (1964), *Integral Humanism*, Delhi: Bharatiya Jan Sangh.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-2) : Introduction to the Indian Constitution

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Introduction to the Indian Constitution GE-2	4	3	1	0	12th Pass	NIL

Learning Objectives

The course aims to introduce the students to the foundational text of constitutional democracy in India - the Indian Constitution. By providing an overview of the socio-political context of its origin and its basic tenets, which provide the organizing framework for democracy in India, the course expects to bring historical insights in making the constitutional text comprehensible. The course traces the history of the Constitution both in the colonial legislations and in the declaration and reports produced in the course of the Indian National Movement. It focuses on the creation and the working of the Constituent Assembly as part of a transformative vision for independent India. The basic features of the Constitution form the core themes of the course introducing students to the philosophy behind them and the final form in which they were adopted in the Indian Constitution to make it a document for social revolution. The course aims at providing students with both a textual and a contextual introduction to the Indian Constitution.

Learning outcomes

On successful completion of the course, the students will demonstrate

- Knowledge of the origin and contents of the Indian Constitution
- Awareness of the rights and duties of the citizens and the obligations of the state
- Familiarity with the functioning of constitutional governance in India and the division of power between different tiers of the government.

SYLLABUS OF GE-2

UNIT – I (8 Hours)

Constitutional antecedents and the making of the Constitution of India

UNIT – II (7 Hours)

Basic features of the Indian Constitution

UNIT – III (8 Hours)

Fundamental Rights

UNIT – IV (7 Hours)

Obligations of State and Duties of Citizens

UNIT – V (8 Hours)

UNIT – VI (7 Hours)

Centre-State Relations and Decentralization

Essential/recommended readings

Readings:

1. Constitutional antecedents and the making of the Constitution of India

(a) Constitutional antecedents

Shibani Kinkar Chaube, 2010, Pre History, in *The Making and Working of the Indian Constitution*, NBT, India.

Arun Thiruvengadam, 2018, Origin and Crafting of the Constitution (pp. 11 to 26), in *The Constitution of India, a Contextual Analysis*, Hart Publishing.

D D Basu, 2011, The Historical background, in *Introduction to the Constitution of India* (20thed.). Lexis Nexis, India.

(b) Making of the Constitution of India

Shibani Kinkar Chaube, 2000, Birth of the Constituent Assembly, in *Constituent Assembly of India: Springboard of Revolution*, Manohar.

Granville Austin, 1966, The Constituent Assembly- Microcosm in Action, in *Indian Constitution, Cornerstone of a Nation*, OUP.

Subhash Kashyap, 1994, Making of the Constitution, in *Our Constitution: An Introduction to India's Constitution and Constitutional Law*, NBT, India.

2. Basic Features of the Indian Constitution

B R Ambedkar, 2010, Basic features of the Indian Constitution, in Valerian Rodrigues (ed), *The essential writings of BR Ambedkar*. Oxford University Press, India.

D D Basu, 2011, Outstanding Feature of Our Constitution, in *Introduction to the Constitution of India* (20thed.). Lexis Nexis, India.

Ivor Jennings, 1953, Introduction, in *Some Characteristics of Indian Constitution*, G Cumberlege and Oxford University Press.

3. Fundamental Rights

Primary text: Article 14- 32, Part III, The Constitution of India

Granville Austin, 1966, The Conscience of the Constitution- Fundamental Rights and Directive Principles of State Policy- I (pp. 63-94), in *Indian Constitution, Cornerstone of a Nation*, OUP

Shibani Kinkar Chaube, 2010, Rights of Indians, in *The Making and Working of the Indian Constitution*, NBT, India.

D D Basu, 2011, Fundamental Rights and Duties (pp. 79- 142), in *Introduction to the Constitution of India* (20thed.). Lexis Nexis, India.

Arun Thiruvengadam, 2018, Fundamental rights, Directive Principles and the Judiciary (pp. 118-137), in *The Constitution of India, a Contextual Analysis*, Hart Publishing.

4. Obligations of State and Duties of Citizens

Primary text: Article 36- 51A, Part IV and IVA, The Constitution of India

Shibani Kinkar Chaube, 2010, Duties of State and Citizens, in *The Making and Working of the Indian Constitution*, NBT, India.

D D Basu, 2011, Directive Principles of State Policy (pp. 79- 142), in *Introduction to the Constitution of India* (20th ed.). Lexis Nexis, India.

Gautam Bhatia, 2016, Directive Principles of State Policy, in Sujit Choudhry, *et al*, *The Oxford Handbook of the Indian Constitution*, New Delhi: OUP

Ivor Jennings, 1953, Directives of Social Policy, in *Some Characteristics of Indian Constitution*, G Cumberlege and Oxford University Press.

5. Organs of Constitutional Governance- Legislature, Executive and Judiciary

Primary Text: Part V, The Constitution of India

S.K. Chaube, Union Government- 1: The Executive, in *The Making and Working of Indian Constitution*, NBT, India

S.K. Chaube, Union Government 2: The Legislature, in *The Making and Working of Indian Constitution*, NBT, India

Granville Austin, 1966, *Indian Constitution, Cornerstone of a Nation*, OUP, pp. 145- 230.

Arun Thiruvengadam, 2018, The Executive and the Parliament, in *The Constitution of India, a Contextual Analysis*, Hart Publishing

M.R. Madhavan, 2017, Parliament, in D. Kapur, P.B. Mehta and M Vaishnav (eds.), *Rethinking Public Institutions in India*, Oxford University Press

D.D. Basu, 2011, The Judicature (pp. 299- 313), in *Introduction to the Constitution of India* (20thed.). Lexis Nexis, India.

Pratap Bhanu Mehta, 2005, India's Judiciary: the Promise of Uncertainty, in *Public Institutions in India: Performance and Design*, OUP, India.

Punam S Khanna, 2008, The Indian Judicial system, in K Sankaran and U K Singh (eds), *Towards Legal Literacy: An Introduction to Law in India*, OUP.

6. Centre-State Relations and Decentralization

D D Basu, 2011, Distribution of Legislative and Executive Powers, in *Introduction to the Constitution of India* (20thed.). Lexis Nexis, India.

M.P. Singh and Rekha Saxena, 2013, Asymmetrical Federalism, in *Federalising India in the Age of Globalisation*, Primus

Ivor Jennings, 1953, Indian Federalism, in *Some Characteristics of Indian Constitution*, G Cumberlege and Oxford University Press.

S.K. Chaube, Local Government, in *The Making and Working of Indian Constitution*, NBT, India.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-3): Nationalism in India

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Nationalism in India GE-3	4	3	1	0	12 th Pass	NIL

Learning Objectives

The course aims to help students understand the national movement in India. It looks at the movement from different theoretical perspectives that highlight its varied dimensions. The course begins by looking at the Indian responses to colonial dominance in the nineteenth century, and traces the development of the anti-colonial struggle up to the mid-20th century. It successively focuses on the events leading to the Partition and the Independence in 1947. In the process, the course also tries to focus on the various tensions and debates within nationalism in India as it engaged with the questions of communalism, class struggle, caste and gender.

Learning outcomes

On successful completion of the course, students would:

- Gain an understanding of the different theoretical views on the emergence and development of nationalism in India and the tensions that existed between them
- Demonstrate knowledge of the historical trajectory of the development of the nationalist movement in India, with specific focus on its different phases
- Understand the contribution of various social movements in the anti-colonial struggle
- Demonstrate awareness of the history of partition and independence

SYLLABUS OF GE-3

UNIT – I (8 Hours)

Approaches to the Study of Nationalism in India: Nationalist, Imperialist, Marxist, and Subaltern

UNIT – II (7 Hours)

Reformism and Anti-Reformism in the Nineteenth Century: Major Social and Religious Movements in 19th century

UNIT – III (12 Hours)

Nationalist Politics and Expansion of its Social Base

- a. Phases of Nationalist Movement: Liberal Constitutionalists, Swadeshi and the Radicals; Beginning of Constitutionalism in India
- b. Gandhi and Mass Mobilisation: Non-Cooperation Movement, Civil Disobedience Movement, and Quit India Movement
- c. Revolutionaries, Socialists, and Communists

UNIT – IV (12 Hours)

Social Movements

Peasants, Tribals, Workers, Women and anti-caste movements

UNIT – V (6 Hours)

Partition, Independence and Integration of states

Communalism in Indian Politics, The Two-Nation Theory and Partition, Independence and Integration of Indian States

Essential/recommended readings

Approaches to the Study of Nationalism in India

S. Bandopadhyay (2004) *From Plassey to Partition: A History of Modern India*, New Delhi: Orient Longman, pp. 184-191.

R. Thapar (2000) 'Interpretations of Colonial History: Colonial, Nationalist, Post-colonial', in P. DeSouza (ed.) *Contemporary India: Transitions*, New Delhi: Sage Publications, pp. 25-36.

Reformism and Anti-Reformism in the Nineteenth Century

S. Bandopadhyay (2004) *From Plassey to Partition: A History of Modern India*, New Delhi: Orient Longman, pp.139-158, 234-276.

A. Sen (2007) 'The idea of Social Reform and its Critique among Hindus of Nineteenth Century India', in S. Bhattacharya (ed.) *Development of Modern Indian Thought and the Social Sciences*, Vol. X. New Delhi: Oxford University Press.

Nationalist Politics and Expansion of its Social Base

S. Bandopadhyay (2004) *From Plassey to Partition: A History of Modern India*. New Delhi: Orient Longman, pp. 279-311.

S. Sarkar (1983) *Modern India (1885-1947)*, New Delhi: Macmillan,

P. Chatterjee (1993) 'The Nation and its Past', in P. Chatterjee, *The Nation and its Fragments: Colonial and Postcolonial Histories*. New Delhi: Oxford University Press, pp. 76-115.

Social Movements

S. Bandopadhyay (2004) *From Plassey to Partition: A history of Modern India*. New Delhi: Orient Longman, pp. 342-357, 369-381.

Desai, A.R. (2019, reprint- 6th edition) *Crusade Against Caste System*, in *Social Background of Indian Nationalism*, Sage.

Desai, A.R. (2019, reprint- 6th edition) *Crusade Against Untouchability*, in *Social Background of Indian Nationalism*, Sage.

Desai, A.R. (2019, reprint- 6th edition) *Movement for the Emancipation of Women*, in *Social Background of Indian Nationalism*, Sage.

G. Shah (2002) *Social Movements and the State*, New Delhi: Sage, pp. 13-31

Partition, Independence and Integration of States

A. Jalal, and S. Bose (1997) *Modern South Asia: History, Culture, and Political Economy*. New Delhi: Oxford University Press, pp. 135-156.

A. Nandy (2005) *Rashtravadbanam Deshbhakti* Translated by A. Dubey, New Delhi: Vani Prakashan. pp. 23-33. (The original essay in English is from A. Nandy (1994) New Delhi: Oxford University Press, pp. 1-8.)

V P Menon (1956), CH I- Setting the Stage and Ch XXV- The Cost of Integration, in *The Story of the Integration of the Indian States*, Orient Longman.

Suggestive readings

B.Chakrabarty and R. Pandey (2010) *Modern Indian Political Thought*, New Delhi: Sage Publications.

P. Chatterjee (1993) *The Nation and its Fragments: Colonial and Postcolonial Histories*, New Delhi: Oxford University Press.

R. Pradhan (2008) *Raj to Swaraj*, New Delhi: Macmillan (Available in Hindi).

S. Islam (2006) *Bharat Mein Algaovadaur Dharm*, New Delhi: Vani Prakashan.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-4): Understanding International Relations

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Understanding International Relations GE-4	4	3	1	0	12th Pass	NIL

Learning Objectives

This course aims to make students understand the intersections between politics, economics, culture and nature that shape human life in the contemporary world. These intersectional relations foreground the multiple interactions that constitute the reality of the group life of humans. The issues around which the course is designed consists of the role of state in international politics, cultural identities such as the nation and, issues such as global poverty and global inequalities. Additionally, the course dwells on the psycho-cultural and politico-economic causes of violence, oppression and injustices that make the world a contested space. It examines the ways in which information technology shapes the course of human life in the age of globalization and how the phenomenon of the international manifests both in the virtual and the material world. Going beyond the Westphalian conception of territoriality, the course looks at the ways in which IR manifests in the realm of art/cinema/museums.

Learning outcomes

On successful completion of the course, students would be able to:

- Understand the nature of the contemporary world in which we live through connected histories, economies and societies.

- Analyze the ways in which our world is shaped in both territorial and non-territorial forms leading to basic planetary understandings of both human and non-human relations.
- Enhance cognitive abilities to map out the multiple and complex interactions in international relations between peoples, histories and civilisations.
- To understand the role of the state and its interface with the market, probe into the cultural identities of a nation, analyse global poverty and climate change politics.
- To critically analyse the politics of ‘common yet differentiated responsibilities.’
- Think critically about issues of global inequalities, violence, and injustices in the age of globalization.
- Appreciate the ways in which aesthetic articulation(s) problematize and interrogate the international and our ways of being therein.

SYLLABUS OF GE-4

UNIT – I (7.5 Hours)

Making Sense of the World

- 1.1 What is IR?
- 1.2 Understanding Space: How do we sense our planet
- 1.3 Ways of knowing and being: - Peoples, Histories and Civilisations

UNIT – II (11 Hours)

States, Nations and Markets

- 2.1 State and Diffusion of authority/power
- 2.2 Nations and Nationalism
- 2.3 States and Markets

UNIT – III (11 Hours)

Inequalities

- 3.1 Politico-military inequalities: big states, small states
- 3.2 Economic inequalities: rich states, poor states
- 3.3 Climate Change: Global commons and differentiated responsibilities

UNIT – IV (7.5 Hours)

Sites of Conflict and Forms of Violence

- 4.1 Changing Landscape/ Nature of Conflict
- 4.2 Forms of Violence

UNIT – V (8 Hours)

Knowing our Virtual and Creative World: The Visual Turn in IR

- 5.1 Internet
- 5.2 Museums
- 5.3 Cinemas

Essential/recommended readings

1.1. What is IR?

David Blaney, “Where, When and What is IR?” in Arlene B, Tickner and Karen Smith (eds.), *International Relations from the Global South: World of Difference*, New York: Routledge, 2020, pp. 38-55.

1.2. Understanding Space: How can we understand our planet.

Simon Dalby, “What happens if we don’t take nature for granted,” in Jenny Edkins and Maja Zehfuss (eds.), *Global Politics: A New Introduction*, New York: Routledge, 2008, pp. 39-60.
Dipesh Chakrabarty, ‘The Climate of History in a Planetary Age,’ London: University of Chicago Press, 2021, pp. 1-20.

1.3. Ways of knowing and being: - Peoples, Histories and Civilisations

Veronique Pin-Fat, “How do we begin to think about the world,” in Jenny Edkins and Maja Zehfuss (eds.), *Global Politics: A New Introduction*, New York: Routledge, 2008, pp. 20-38.
Tamara A. Trowsell, Amaya Querejazu, Giorgio Shani, Navnita Chadha Behera, Jarrad Reddekop and Arlene B. Tickner Recrafting International Relations through Relationality,” *E-International Relations*, January 2019. <https://www.e-ir.info/2019/01/08/recrafting-international-relations-through-relationality/>.

Tamara A. Trowsell, Arlene B. Tickner, Amaya Querejazu, Jarrad Reddekop, Giorgio Shani, Kosuke Shimizu, Navnita Chadha Behera and Anahita Arian, ‘Differing about difference: relational IR from around the world,’ *International Studies Perspectives*, 22:1, February 2021, pp. 25-64.

Giorgio Shani, ‘IR as inter-cosmological relations?’ *International Politics Review*, 9 (2021) 306–312. <https://doi.org/10.1057/s41312-021-00120-2>.

Additional Readings:

Milja Kurki, “International Relations in a Relational Universe,” *Oxford University Press* (2020) 1-16.

Arturo Escobar, ‘Introduction: Another possible is possible,’ and ‘Theory and the un/real: Tools for rethinking “Reality” and the possible,’ in *Pluriversal Politics: The Real and the Possible*, Durham: Duke University Press, 2020, pp. 1-30.

Ashish Kothari, Ariel Salleh, Arturo Escobar, Federico Demaria, Albert Acosta, ‘Introduction: Finding Pluriversal Paths’, in Ariel Salleh, Arturo Escobar, Federico Demaria, Albert Acosta (eds.), *Pluriverse: a post-development dictionary*, New Delhi: Tulika Books, 2019, pp. xxii-xl.

Also, see, <https://kalpavriksh.org/ourteam/ashish-kothari/>

2.1 State and Diffusion of authority/power

Shibashish Chatterjee, ‘Reconsidering the State in International Relations,’ in Kanti and Siddharth Mallavarapu (eds.), *International Relations in India: Bringing Theory back home*, New Delhi: Orient Longman, 2005, pp. 451-489.

David Held, “The territorial State and Global Politics,” in *Global Transformations: Politics, Economics and Culture*, USA: Stanford University Press, 1999, pp. 32-48.

Susan Strange, “The State of the State,” in *The Retreat of the State: The Diffusion of Power in the World Economy*, Cambridge: Cambridge University Press, 1996, pp. 66- 88.

2.2 Nations and Nationalism

Andrew Heywood, “Nations and Nationalism” in *Politics*, China: Palgrave Macmillian, 2013, pp. 108-127.

Michael J. Shapiro, “Does the nation-state work?” in Jenny Edkins and Maja Zehfuss (eds.), *Global Politics: A New Introduction*, New York: Routledge, 2008, pp. 269- 287.

Elena Barabantseva, “How do people come to identify with nations?” in Jenny Edkins and Maja Zehfuss (eds.), *Global Politics: A New Introduction*, New York: Routledge, 2008, pp. 245-268.

Sanjay Chaturvedi, ‘Indian Geo-politics: ‘Nation-State and the Colonial Legacy’ in Kanti Bajpai and Siddharth Mallavarapu (eds.), *International Relations in India: Theorising the Region and Nation*, New Delhi: Orient Longman, 2005, pp. 238-283.

2.3 States and Markets

Lavanya Rajamani, “The principle of common but differentiated responsibilities and respective capabilities in the international climate change regime” in Ludwig Kramer and Emanuela Orlando (eds.), *Principles of Environmental Law*, Sussex: Edward Elgar publishing, 2018, pp. 46-60.

David Held, Chapter five on “Corporate Power and Global Production Networks,” in *Global Transformations: Politics, Economics and Culture*, Stanford: Stanford University Press, 1999, pp. 236-282.

Matthew Watson, ‘Understanding the State within Modern Society’ and ‘Understanding the Market within Modern Society’ in *Foundations of International Political Economy*, New York: Palgrave, 2005, pp. 161-196.

Additional Readings:

Thomas L. Friedman, *The World is Flat: A Brief History of the Twenty-First Century*, New York: Picador Publication, 2005, pp. 1-50.

Yuval Noah Harari, “Nationalism,” in *21 Lessons for the 21st Century*, USA: Spiegel & Grau, Jonathan Cape, 2018, pp. 104-117.

Dr V. Basil Hans, ‘State and the Market- Debate and Developments,’ January 2014, <http://dx.doi.org/10.2139/ssrn.2373827>

Andrew Heywood, “Sovereignty, the Nation and Supranationalism,” in *Political Ideas and Concept*, New York: St. Martin’s Press, 1994, pp. 48-77.

Stuart Elden, “Why the World Divided Territorially,” in Jenny Edkins and Maja Zehfuss (eds.), *Global Politics: A New Introduction*, New York: Routledge, 2008, , pp. 220-244.

Robert Gilpin, “Nature of political economy,” in *Global Political Economy: Understanding the International Economic Order*, Princeton: Princeton University Press, 2001, pp- 25-45.

Stephen D. Krasner, ‘Sharing Sovereignty: New Institutions for Collapsed and Failing States,’ *International Security*, 29: 2, 2004, pp. 85-120.

Susan Strange, Chapters 3-6, on ‘The Security Structure’, ‘The Production Structure’, ‘The Financial Structure’, ‘The Knowledge Structure’, in *States and Markets*, London: Bloomsbury, 2015,

Unit 3. Inequalities

Mohammad Ayoob, ‘Inequality and Theorizing in International Relations: The Case for Subaltern Realism,’ *International Studies review*, 4:3, 2002, pp. 27-48.

3.1 Mapping inequalities in IR

Joao Pontes Nogueira, "Inequality," in Arlene B, Tickner and Karen Smith (eds.), *International Relations from the Global South: World of Difference*, New York: Routledge, 2020, pp. 240-255.

Paul Cammack, "Why are Some People Better off than Others," in Jenny Edkins and Maja Zehfuss (eds.), *Global Politics: A New Introduction*, New York: Routledge, 2008, pp. 405-428.

3.2 Climate Change: Global commons and differentiated responsibilities

A. Damodaran, 'Encircling the Seamless- India, Climate Change, and the Global Commons,' Oxford University Press, 2010, India. Chapters 1 and 2.

Additional Readings:

Amartya Sen, "Capabilities and Resources," in *The Idea of Justice*, New York: Penguin Books, 2009, pp. 253-268.

Amartya Sen, "Measures of Inequality," in *On Economic Inequality*, New York: Clarendon Press Oxford, 1997, pp. 24-46.

Dipesh Chakrabarty, Chapter 7 on 'Anthropocene Time,' in *The Climate of History in a Planetary Age*, University of Chicago Press London, 2021, pp. 155-181.

Graham Thompson, "Global Inequality, Economic Globalization and Technological Change," Chapter Eleven in 'A World of Whose Making- Ordering the International: History, Change and Transformation' by William Brown, Simon Bromley, and Suma Athreye. Pluto Press, 2004, pp. 377-415.

Unit 4. Sites of Conflict and Forms of Violence

Arlene B. Tickner, "War and Conflict," in Arlene B, Tickner and Karen Smith (eds.), *International Relations from the Global South: World of Difference*, New York: Routledge, 2020, pp. 115-138.

4.1 Changing Landscape/ Nature of Conflict

Michael Dillon, "What makes the world dangerous," in Jenny Edkins and Maja Zehfuss (eds.), *Global Politics: A New Introduction*, New York: Routledge, 2008, pp. 519-538

Mary Kaldor, 'In Defense of New Wars', *Stability: International Journal of Security and Development*, 2:1, 2013, 1-16. <http://dx.doi.org/10.5334/sta.at>.

4.2 Forms of Violence

Joanna Bourke, "Why Does Politics Turns into Violence?" in Jenny Edkins and Maja Zehfuss (eds.), *Global Politics: A New Introduction*, New York: Routledge, 2008, pp. 472-495.

Anuradha M. Chenoy, "Militarization, Conflict and Women in South Asia," in Lois Ann Lorentzen and Jennifer Turpin (eds.), *The Women and War Reader*, New York: New York University Press, 1998, pp. 101-110.

Additional Readings:

Roland Bleiker, "Can we move beyond Conflict," in Jenny Edkins and Maja Zehfuss (eds.), *Global Politics: A New Introduction*, New York: Routledge, 2008, pp. 564- 589.

David Held, "Expanding reach of organized violence," in *Global Transformations: Politics, Economics and Culture*, Stanford: Stanford University Press, 1999, pp. 87- 92.

5.1 Internet

M. I. Franklin, "How does the way we use the Internet make a difference?" in Jenny Edkins and Maja Zehfuss (eds.), *Global Politics: A New Introduction*, New York: Routledge, 2008, pp. 176-199.

Jr. Harry M. Cleaver, 'The Zapatista Effect: The Internet and the Rise of an Alternative Political Fabric,' *Journal of International Affairs*, 51:2, 1998, pp. 621- 640.

5.2 Museums

Christine Sylvester, "Can International Relations and Art/Museums Come Together," in *Art/Museums: International Relations Where We Least Expect it*, New York: Routledge, 2016, pp. 1-24.

<https://www.ushmm.org/teach/teaching-materials/holocaust>

<https://www.partitionmuseum.org/event/remembering-the-jallianwala-bagh-massacre-100-years-later/>

5.3 Cinemas

Cynthia Weber, "Culture, Ideology, and the Myth Function in IR Theory," in *International Relations Theory: A Critical Introduction*, London: Routledge, 2013, pp. 1-12.

Cynthia Weber, "Case Study: Modernization and Development theory: is there a clash of civilizations? Movie analysis of East is East," in *International Relations Theory: A Critical Introduction*, London: Routledge, 2013, pp. 173-202.

Additional Readings:

Maria Elena Martinez- Torres, 'Civil Society, the Internet, and the Zapatistas,' *Journal of Social Justice*, 13:3, 2001, pp. 347-355.

Lene Hansen, Rebecca Adler-Nissen and Katrine Emelie Andersen, 'The visual international politics of the European refugee crisis: Tragedy, humanitarianism, borders,' *Cooperation and Conflict*, 56:44, 2021, pp. 367-393.

Mirzoeff, Nicholas, "Global Visual Cultures" in *An Introduction to Visual Culture 2nd Edition*, London: Routledge, 2009, pp. 1-16.

Azmat Rasul and Mudassir Mukhtar, 'Bollywoodization of foreign policy: How film discourse portrays tensions between states' *Journal of Media Critiques*, 1:1, June 2015, pp. 11-27.

Roland Bleiker, *Visual Global Politics*, London and New York: Routledge, 2018, pp.1-29.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-5): Governance: Issues and Challenges

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Governance: Issues and Challenges GE-5	4	3	1	0	12 th Pass	NIL

Learning Objectives

This paper deals with concepts and different dimensions of governance highlighting the major debates in the contemporary times. There is a need to understand the importance of the concept of governance in the context of a globalising world, environment, administration, development. The essence of governance is explored through the various good governance initiatives introduced in India.

Learning outcomes

On successful completion of the course, the students will be

- acquainted with the changing nature of governance in the era of globalization.
- introduced to the most contemporary ideas of sustainable development and green governance.
- familiarised with a rigorous introduction to the best practices in India on good governance.

SYLLABUS OF GE-5

UNIT – I (11 Hours)

Government and Governance: Concepts

- a) Role of State in The Era of Globalisation
- b) State, Market and Civil Society

UNIT – II (7 Hours)

Governance and Development

Changing Dimensions of Development Strengthening Democracy through Good Governance

UNIT – III (8 Hours)

Environmental Governance

- a) Human-Environment Interaction
- b) Green Governance: Sustainable Human Development

UNIT – IV (7 Hours)

Local Governance

- a) Democratic Decentralisation
- b) People's Participation in Governance

UNIT – V (12 Hours)

Good Governance Initiatives in India: Best Practices

- a) Public Service Delivery
- b) Electronic Governance
- c) Citizens Charter & Right to Information
- d) Corporate Social Responsibility

Essential/recommended readings

Government and Governance: Concepts

B. Chakrabarty and M. Bhattacharya (eds.) The Governance Discourse. New Delhi: Oxford University Press, 1998

Surendra Munshi and Biju Paul Abraham (eds.), Good Governance, Democratic Societies and Globalisation, Sage Publishers, 2004

United Nation Development Programme, Reconceptualising Governance, New York, 1997

Carlos Santiso, Good Governance and Aid Effectiveness: The World Bank and Conditionality, Johns Hopkins University, The Georgetown Public Policy Review, Volume VII, No.1, 2001

Vasudha Chotray and Gery Stroker, Governance Theory: A Cross Disciplinary Approach, Palgrave Macmillan, 2008

J. Rosenau, 'Governance, Order, and Change in World Politics', in J. Rosenau, and E. Czempiel (eds.) Governance without Government: Order and Change in World Politics, Cambridge: Cambridge University Press, 1992

B. Nayar (ed.), Globalization and Politics in India. Delhi: Oxford University Press, 2007 pp. 218-240.

Smita Mishra Panda, Engendering Governance Institutions: State, Market and Civil Society, Sage Publications, 2008

Neera Chandhoke, State and Civil Society Explorations in Political Theory, Sage Publishers, 1995

सिंह, अभय प्रसाद एवं कृष्ण मुरारी (2018), शासन: मुद्दे एवं चुनौतियाँ, ओरियंट ब्लैकस्वान, नई दिल्ली

चक्रवर्ती, बिद्युत, प्रकाश चंद (2018), वैश्वीकृत दुनिया में लोक प्रशासन, सेज भाषा, नई दिल्ली

सिन्हा, मनोज (2010) प्रशासन एवं लोकनीति, ओरियंट ब्लैकस्वान, नई दिल्ली

Governance and Development

B. C. Smith, Good Governance and Development, Palgrave, 2007

World Bank Report, Governance and Development, 1992

P. Bardhan, 'Epilogue on the Political Economy of Reform in India', in *The Political Economy of Development in India*. 6th edition, Delhi: Oxford University Press, 2005

J. Dreze and A. Sen, *India: Economic Development and Social Opportunity*. New Delhi: Oxford University Press, 1995

Niraja Gopal Jayal [ed.], *Democracy in India*, Oxford University Press, 2007

Environmental Governance

Ramachandra Guha, *Environmentalism: A Global History*, Longman Publishers, 1999

J.P. Evans, *Environmental Governance*, Routledge, 2012

Emilio F. Moran, *Environmental Social Science: Human - Environment interactions and Sustainability*, Wiley-Blackwell, 2010

Burns H Weston and David Bollier, *Green Governance: Ecological Survival, Human Rights and the Law of the Commons*, Cambridge University Press, 2013

Bina Agarwal, *Gender And Green Governance*, Oxford University Press, Oxford, 2013

J. Volger, 'Environmental Issues', in J. Baylis, S. Smith and P. Owens (eds.) *Globalization of World Politics*, New York: Oxford University Press, 2011, pp. 348-362.

A. Heywood, *Global Politics*, New York: Palgrave, 2011, pp. 383-411.

N. Carter, *The Politics of Environment: Ideas, Activism, Policy*, Cambridge: Cambridge University Press, 2007, pp. 13-81.

Local Governance

Pranab Bardhan and Dilip Mookherjee, *Decentralization and Local Governance in Developing Countries: A Comparative Perspective*, MIT Press, 2006

T.R. Raghunandan, *Decentralization And Local Governments: The Indian Experience, Readings On The Economy, Polity And Society*, Orient Blackswan, 2013

Pardeep Sachdeva, *Local Government In India*, Pearson Publishers, 2011

P. de Souza (2002) 'Decentralization and Local Government: The Second Wind of Democracy in India', in Z. Hasan, E. Sridharan and R. Sudarshan (eds.) *India's Living Constitution: Ideas, Practices and Controversies*, New Delhi: Permanent Black, 2002

Mary John, 'Women in Power? Gender, Caste and Politics of Local Urban Governance', *Economic and Political Weekly*, Vol. 42(39), 2007

Good Governance Initiatives in India: Best Practices

Niraja Gopal Jayal, *Democracy and the State: Welfare, Secularism, and Development in Contemporary India*, Oxford University Press, 1999

Reetika Khera[ed.], *The Battle for Employment Guarantee*, Oxford University Press, 2011

Nalini Juneja, *Primary Education for All in the City of Mumbai: The Challenge Set By Local Actors'*, International Institute For Educational Planning, UNESCO: Paris, 2001

Maxine Molyneux and Shahra Razavi, *Gender, Justice, Development, and Rights*, Oxford University Press, 2002

Jugal Kishore, National Health Programs of India: National Policies and Legislations, Century Publications, 2005

Jean Drèze and Amartya Sen, India, Economic Development and Social Opportunity, Oxford University Press, 1995

K. Lee and Mills, The Economic Of Health In Developing Countries, Oxford University Press, 1983

Marmar Mukhopadhyay and Madhu Parhar (eds.) Education in India: Dynamics of Development, Shipra Publications, 2007

K. Vijaya Kumar, Right to Education Act 2009: Its Implementation as to Social Development in India, Akansha Publishers, 2012

Amartya Sen and Jean Dreze, Omnibus: Poverty and Famines, Hunger and Public Action, India- Economic Development and Social Opportunity, Oxford University Press, 1998

Jean Dreze and Amartya Sen, An Uncertain Glory: India and Its Contradictions, Princeton University Press, 2013

Reetika Khera, 'Rural Poverty and Public Distribution System', Economic and Political Weekly, Vol-XLVIII, No.45-46, Nov 2013

Pradeep Chaturvedi, Women and Food Security: Role Of Panchayats, Concept Publishing House, 2002

Bidyut Mohanty, "Women, Right to Food and Role of Panchayats", Mainstream, Vol. LII, No. 42, October 11, 2014

D. Crowther, Corporate Social Responsibility, Deep and Deep Publishers, 2008

Sanjay K. Agarwal, Corporate Social Responsibility in India, Sage Publishers, 2008

Pushpa Sundar, Business & Community: The Story of Corporate Social Responsibility in India, New Delhi: Sage Publications, 2013.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-6): Western Political Philosophy

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Western Political Philosophy GE-6	4	3	1	0	12th Pass	NIL

Learning Objectives

This course familiarizes the students with the manner in which the political questions are posed and answered normatively by select thinkers. The aim is to introduce to the students the questions, ideas and values of political philosophy addressed by political thinkers and juxtapose the same to contemporary political thinking.

Learning outcomes

By the end of the course students would be able to:

- Understand how to read and decode the classics and use them to engage contemporary socio-political issues.
- Connect with historically written texts and their interpretations.
- Clearly present their own arguments and thoughts about contemporary issues and develop ideas to engage with the latter.

SYLLABUS OF GE-6

UNIT – I (18 Hours)

Classical Political Philosophy

- a) Plato
- b) Aristotle

UNIT – II (27 Hours)

Renaissance and Modern Political Philosophy

- a) Machiavelli
- b) Hobbes
- c) Rousseau
- d) Mill
- e) Marx

Essential/recommended readings

Unit 1

R. Kraut (1996) 'Introduction to the study of Plato', in R. Kraut (ed.) *The Cambridge Companion to Plato*. Cambridge: Cambridge University Press, pp. 1-50.

D. Boucher and P. Kelly (eds) *Political Thinkers: From Socrates to the Present*, Oxford: Oxford University Press, pp. 62-80

A. Skoble and T. Machan (2007) *Political Philosophy: Essential Selections*. New Delhi: Pearson Education pp. 53-64.

J. Barnes (ed.), *The Cambridge Companion to Aristotle*. Cambridge: Cambridge University Press.

Q. Skinner (2000) *Machiavelli: A Very Short Introduction*, Oxford: Oxford University Press, pp. 23-53

Unit 2

C. Macpherson (1962) *The Political Theory of Possessive Individualism: Hobbes to Locke*. Oxford University Press.

D. Boucher and P. Kelly (eds) *Political Thinkers: From Socrates to the Present*. Oxford: Oxford University Press, pp. 207-224

J. Coleman (2000) 'Introduction', in *A History of Political Thought: From Ancient Greece to Early Christianity*, Oxford: Blackwell Publishers.

I. Hampsher-Monk (2001) *A History of Modern Political Thought: Major Political Thinkers from Hobbes to Marx*, Oxford: Blackwell Publishers.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-7): Politics of Globalisation

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Politics of Globalisation GE-7	4	3	1	0	12th Pass	NIL

Learning Objectives

This course examines the paradoxes of contemporary globalisation. It has been crafted in a manner as to introduce to the students from diverse disciplinary backgrounds the complex multifaceted nature of the contemporary phenomenon of globalization. Students will learn about the evolution of globalization by examining whether globalization is a mere historical process, or, it is also a socio-cultural, politico-economic and, psychological phenomenon and, understand these through different conceptual frames. It then makes the students understand the debates that have been put forth for and against globalization. The course introduces the discourse regarding the Eurocentric formulations of globalization and the ways in which the non-European voices have historically been marginalized in the shaping of Western modernity. Students will also learn about the political, economic and cultural facets of globalization. As a political phenomenon, the course seeks to understand as to how globalization has impacted upon the functioning of the sovereignty of nation-states. In the realm of economy, it introduces the impact of time/space compression upon the macroeconomic structures of trade and finance as well as the structural transformation that information and communications technology has brought in the working of the global political economy. As a cultural phenomenon, the course also discusses the new global mobilizations in the form of global social movements, movements of people across borders and the political and economic impact of global epidemics.

Learning outcomes

Upon successful completion of this course, students will have the knowledge and skills to:

- Understand the nature, significance, and principal debates in the literature on globalisation and the concept of globalization as both a historical process and, a socio-cultural phenomenon.
- Study various approaches which will augment student's knowledge on international political economy.
- Demonstrate basic knowledge of the interconnectedness of global issues, processes, and dynamics.
- Develop insight into the alternative understanding of globalisation and various critical aspects related to it like who are the beneficiaries in this process.
- Understand diverse global challenges like global migration and epidemics.

- Learn the ways in which globalization holds promise for a better world and a developed world and, at the same time, understand how it is laden with deep-seated tendencies to engender strands of inequalities and spur erosion of local cultures.

SYLLABUS OF GE-7

UNIT – I (11 Hours)

Conceptualizing Globalisation

- 1.1 Is Globalisation New? Historical Perspectives
- 1.2 Approaches to Understand globalisation
- 1.3 The Globalisation Debate

UNIT – II (7 Hours)

Globalization: A Eurocentric Project?

- 2.1 The Question of Post-Coloniality
- 2.2 Making Sense of Globalization for the People at the Margins

UNIT – III (8 Hours)

Sovereign State in a Globalised World

- 3.1 Political Dimensions
- 3.2 Shift from State to Market?

UNIT – IV (8 Hours)

Role of International Institutions: Multi-dimensionality of Globalisation

- 4.1 World Bank, International Monetary Fund, World Trade Organisation and, G-20
- 4.2 The Globalisation of Trade
- 4.3 Global Epidemics and Working of World Health Organization

UNIT – V (11 Hours)

Responses and Resistances to Globalization

- 5.1 Global Social Movements
- 5.2 International Migration

Essential/recommended readings

Unit 1. Conceptualizing Globalisation

Essential Readings

1.1 Is Globalisation New? Historical Perspectives

Hirst, Paul and Thompson, G. “*Globalisation in Question*” (Third Edition), UK: Polity Press, 2009, pp. 25-52.

Ritzer, George and Paul D. Paul, *Globalization: A Basic Text* (Second Edition), UK: Wiley Blackwell, 2015, pp. 14-53.

1.2 Approaches to Understand Globalisation

Held, D and et. al. “Rethinking Globalisation” in Held, David and Anthony McGrew (eds.) *The Global Transformations Reader: An Introduction to the Globalisation Debate*, (Second Edition). Cambridge: Polity Press, Blackwell Publishing, 2003, pp. 60-67.

Ritzer, G and Dean, P. *Globalisation: The Essentials*, UK: Wiley-Blackwell, 2019, pp. 55-92.

1.3 The Globalisation Debate

Bishop, Matthew Louis & Anthony, "The political economies of different Globalizations: Theorising Reglobalization", *Globalizations*, Vol. 18, June 2020, pp. 1- 21.

Keohane, Robert O. and Nye Jr, Joseph S., "What's New? What's Not? (And So What?)," in Held, D and McGrew, A (ed.), *The Global Transformations Reader: An Introduction to the Globalisation Debate* (2nd edition). Cambridge: Polity Press, Blackwell Publishing, 2003, pp. 75-84.

Additional Readings

Held, David and Anthony McGrew (eds.) *The Global Transformations Reader: An Introduction to the Globalisation Debate* (Second Edition). Cambridge: Polity Press, Blackwell Publishing, 2000, pp 1-42.

Bhagwati, J. "*In Defence of Globalisation*", UK: Oxford University Press, 2007, pp. 3-36, 199-220.

Dwivedi, Sangit S., "Localisation vs Globalisation: A Conscious Vision of India" in Tyagi, R., S. Mangla and Giri (eds.), *Glocalization and Federal Governance in India*, Bloomsbury. 2019, pp. 141-154.

Michie, Jonathan. (eds.), "Globalisation in Questions?", *Handbook of Globalisation*, UK, Edward Elgar, 2003, pp: 17-79.

McGrew, A. "Globalisation and Global Politics" in Baylis J., Smith and Owens (eds.), *The Globalisation of World Politics: An Introduction to International Relations*, New York: Oxford University Press. 2017, pp. 15-31.

Unit 2. Globalization: A Eurocentric Project?

Essential Readings

2.1 The Question of Post-Coloniality

Chatterjee, P. *Our Modernity* (SEPHIS) and (CODESRIA), Rotterdam/Dakar. 1997 pp. 3-20.

Sanjeev Kumar H.M., "Contesting Modernity: Crisis of Democratization in South Asia," *India Quarterly*, LXIV (4), October-December 2008, pp. 124-155.

2.2 Making Sense of Globalization for the People at the Margins

Vandana Shiva, "Ecological Balance in an Era of Globalisation," in Frank J. Lechner and John Boli (eds.), *The Globalization Reader*, Oxford: Blackwell, 2004: pp. 422-429.

Kirsten Foot, "Actors and Activities in the Anti-Human Trafficking Movement," in Jorge Heine and Ramesh Thakur (eds.), *The Dark Side of Globalization*, Tokyo: UN University Press, 2011, pp. 249-265.

Additional Readings

Sen, A. "Introduction" and "The Perspective of Freedom" *Development as freedom* (2nd ed.). New York: Oxford University Press. 2001 pp.1- 34.

Hirst, P. and Thompson, G. "The Future of Globalization", *Cooperation and Conflict*, Vol. 37, No. 3, Special Issue on Globalization, *Cooperation and Conflict*, September 2002, pp. 247-265.

Appadurai, Arjun. *Modernity at Large: Cultural Dimensions of Globalisation*. Minneapolis: University of Minnesota Press, 1996, pp. 66-88.

Ashcroft, Bill, Gareth Griffiths, and Helen Tiffins, eds. *The Empire Writes Back: Theory and Practice in Post-Colonial Literature*. London: Routledge, 1989, pp.1-32; 193-220.

Gustava Esteva and Madhu Suri Prakash, "From Global to Local: Beyond Neo-liberalism to International Hope," in Frank J. Lechner and John Boli (eds.), *The Globalization Reader*, Oxford: Blackwell, 2004: pp. 410-416.

Research Foundation for Science, Technology and Diversity, "Jaiv Panchayat: Biodiversity Protection at the Village Level," in Robin Broad (ed.), *Global Backlash: Citizen Initiatives for a Just World Economy*, Boulder: Rowman and Littlefield, 2002, pp. 269-272.

Unit 3. Sovereign State in a Globalised World

Essential Readings

3.1 Political Dimensions

Bull, Hedley. "Beyond the state system?" in David Held and Anthony McGrew (eds.) *The Global Transformations Reader: An Introduction to the Globalisation Debate* (Second Edition). Cambridge: Polity Press, Blackwell Publishing, 2000, pp 577-582.

Elizabeth, A. and Ozioko, M. V, *Effect of Globalisation on Sovereignty of States*, UN Document, 2000, pp. 256-270.

3.2 Shift from State to Market?

Susan Strange, "The Declining Authority of States," in Frank J. Lechner and John Boli (eds.), *The Globalization Reader*, Oxford: Blackwell, 2004: pp. 219-224.

Jessica T. Mathews, "Power Shift," in David Held and Anthony McGrew (eds.), *The Global Transformations Reader: An Introduction to the Globalisation Debate* (Second Edition). Cambridge: Polity Press, Blackwell Publishing, 2003, pp. 204-212.

Unit 4. Role of International Institutions: Multi-dimensionality of Globalisation

Essential Readings

4.1 World Bank, International Monetary Fund, World Trade Organisation and, G-20

Coffey Peter, Riley, Robert, *Reform of the International Institutions - The IMF, World Bank and the WTO*, Part-2, Edward Elgar Publishing, 2006, pp. 12-84.

Dash, P., Shaw, Khandelwal, "Evolution of G20 Process: From Crisis Management to Development Cooperation", *G 20 Digest*, pp. 5-12. Available at: https://www.g20-insights.org/wp-content/uploads/2020/01/Dash_Shaw_Khandelwal_Evolution_G20.pdf

4.2 The Globalisation of Trade

Woods, N. "International Political Economy in an Age of Globalisation", and Watson, M. "Global Trade and Global Finance", in Baylis J., Smith and Owens (eds.) *The Globalisation of World Politics: An Introduction to International Relations*, New York: Oxford University Press. 2017, pp. 243-257, 417-428.

4.3. Global Epidemics and Working of World Health Organization

Editors, CFR. "What does the World Health Organisation do?" *Council on Foreign Relations*, 29 Jan. 2021, New York: 1-14. <https://www.cfr.org/background/what-does-world-health-organization-do>

Lee, Kelley and Julliane Piper, "The WHO and Covid-19 Pandemic", *Global Governance and Review of Multilateral Organizations*, 2020. <https://brill.com/view/journals/gg/gg-overview.xml>

Additional Readings

Stiglitz, J. "The Promise of Global Institutions", *Globalisation and its Discontents*, New York: Norton, 2002, pp. 3-22.

Cypher, J. and Dietz, J. “The International Monetary Fund, the World Bank and Foreign Aid”, *The Process of Economic Development*. New York: Routledge, 2009, pp. 555-591.

Oatley, Thomas, “Trade and Development: Import Substitution Industrialization”, *International Political Economy: Interests and Institutions in the Global Economy*, 2011. 5th ed, pp. 111-132.

Hoekman, B. and Kostecki, M, “The Trading System in Perspective”, *The Political Economy of the World Trading System: From GATT to WTO*, 3rd Ed, 2009, New York: OUP, pp. 7-57.

Friedman, T., *Lexus and the Olive Tree: Understanding Globalization*, 2000, New York: Anchor, pp. 101-142.

Gilpin, Robert, *The Challenge of Global Capitalism: The World Economy in the 21st Century*, USA: Princeton University Press, 2000, pp. 15-52, 293–324.

Charles, Clift. *The Role of the World Health Organisation in the International System*. London: Chatham House, 2013: 1-51.

Lorena, Barberia et.al. “The Political Science of Covid-19: An Introduction”, *Social Science Quarterly*, 2021. pp. 2045-2054.

Lebni Javed Y. and Abbas Jaffar et al., “How the COVID-19 pandemic affected economic, social, political, and cultural factors: A lesson from Iran”, *Journal of Social Psychiatry*, 2021, 63 (7). pp: 298-300

Unit 5. Responses and Resistances to Globalization

Essential Readings

5.1 Global Social Movements

Donatella della Porta, et al, “The Study of Social Movements: Recurring Questions” and “Social Movements and Democracy”, *Social Movements in a Globalising World*, UK: Macmillan, 1999, pp. 3-23; 223-248.

5.2 International Migration

Keeley, B. “International Migration: The Human Face of Globalisation”, OECD, 2009, pp: 9-40

Inglis Christine et al (edited), “Introduction,” in *The Handbook of International Migration*, New Delhi: Sage Publication, 2020, pp. 1-17

Additional Readings

Khagram, Sanjeev et al (ed.) “Women’s Rights are Human Rights”, and “Globalisation, Global Alliances, and the Narmada Movement”, *Restructuring World Politics: Transnational Social Movements: Social Movements, Protest, and Contention, Volume 14*, MN: University of Minnesota Press. 2002. pp. 96-122; pp. 231-244

Berger, S., “Globalisation and Politics”, *Annual Review of Political Science*, 2000, vol- 3, pp. 43-62.

Schaeffer, Robert K. *Social Movement and Global Social Change: The Rising Tide*, UK: Rowman & Littlefield, 2014, pp. 1-18.

Tarrow, S. “The Global in the Local: Global Framing”, *The New Transnational Activism*, New York: Cambridge University Press, 2005, pp 35-59.

Suggestive readings

Gottlieb, G. “*Nation against State: New Approach to Ethnic Conflicts and The Decline of Sovereignty*”, New York: Council on Foreign Press, 1993, pp: 6-47

Smith, G. and Naim, M. *Altered States: Globalization, Sovereignty and Governance*, IDRC, 2000. pp. 5-20.

Hardt, M. and Negri, A., "Passages of Sovereignty", *Empire*, England: Harvard University Press, 2000 pp. 67-183.

Stiglitz, J. E., *Globalization and Its Discontents Revisited: Anti-Globalization in the Era of Trump*, New York: W.W. Norton & Company, 2018. pp. 89-132

कोर्स से सम्बन्धित हिंदी माध्यम की पुस्तकें

दुबे, अभय कुमार (संपादक), *भारत का भूमंडलीकरण, लोक चिंतन ग्रंथमाला*, नई दिल्ली: वाणी प्रकाशन, २००३

पंत, पुष्पेश, *भूमंडलीकरण एवं भारत*, नई दिल्ली: एक्सेसपब्लिशिंग, २०१६

खन्ना, वीएन, *अंतराष्ट्रीय सम्बन्ध*, नॉएडा (उप्र): विकास पब्लिशिंग हाउस, २०२०

चक्रवर्ती, बिद्युत एवं प्रकाश चंद कंडपाल, *वैश्वीकृत दुनिया में लोक प्रशासन: सिद्धांत और पद्धतियां*, २०१८

भार्गव, नरेश, *वैश्वीकरण: समाज शात्रीय परिप्रेक्ष्य*, २०१४

पांडेय, ब्रज कुमार , *भूमंडलीकरण की समझ* , महावीर प्रकाशन दिल्ली

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-8): Introduction to Public Policy

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Introduction to Public Policy GE-8	4	3	1	0	12 th Pass	NIL

Learning Objectives

The paper seeks to provide an understanding to the concept of Public Policy. Public Policy is a proposed course of action of a government to realize its socio-economic objectives. The essence of public policy lies in its effectiveness in translating the governing philosophy into programmes and policies and making it a part of community living. This course will help to understand the complexities of public policy and its interaction with the socio-economic structure.

Learning outcomes

By the end of this course a student will acquire the following knowledge and skills.

- Contextualization of knowledge;
- Praxis and technique;

- c. Critical Thinking;
- d. Research and Communication

SYLLABUS OF GE-8

UNIT – I (9 Hours)

Public Policy

- (a) Concept, Characteristics and Significance
- (b) Determinants of Public Policy
- (c) Policy Impact: Socio-Economic

UNIT – II (14 Hours)

Theoretical Approaches to Public Policy

- (a) Elite Theory
- (b) Group Theory
- (c) Incremental Theory
- (d) Rational Choice Theory

UNIT – III (9 Hours)

Process of Public Policy

- (a) Policy Formulation
- (b) Policy Implementation
- (c) Policy Evaluation

UNIT – IV (13 Hours)

Public Policy: Case Studies

- (a) Education – National Education Policy (NEP) 2020
- (b) Health – National Health Mission (NHM)
- (c) Employment – Mahatma Gandhi National Rural Employment Guarantee Act (MNREGA)
- (d) Economic Empowerment – Pradhan Mantri Jan-Dhan Yojana (PMJDY), Direct Benefit Transfer (DBT)

Essential/recommended readings

Unit 1

Anderson, J. (1975) Public Policy making. New York: Thomas Nelson and Sons Ltd.

Dye, T. (2002) Understanding Public Policy. New Delhi: Pearson.

Unit 2

Henry, Nicholas (2019) Public Administration and Public Affairs. New York: Routledge.

Simon, Herbert A. (1997) Administrative Behavior. New York: MacMillan.

Unit 3

Sapru, R.K. (1996) Public Policy: Formulation, Implementation and Evaluation. New Delhi: Sterling.

Self, Peter (1972) Administrative Theories and Politics. London: Allen and Unwin.

Unit 4

National Education Policy (NEP) 2020, Ministry of Human Resource Development, Government of India.

National Health Mission, Ministry of Health, Government of India.

Mahatma Gandhi National Rural Employment Guarantee Act-2005, Ministry of Rural Development, Government of India.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-9): Women and Politics in India: Concepts and

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Women and Politics in India: Concepts and Debates GE-9	4	3	1	0	12 th Pass	NIL

Learning Objectives

The course attempts to bring together feminist theory and praxis by focussing on conceptual categories theorized by feminism and the mobilization of the feminist epistemology to focus on key concerns surrounding the everyday existence of women. This course would serve as the fundamental introduction to the history of women's movement with particular emphasis on the women's movement in India. The course opens up the question of women's agency, taking it beyond the question of women empowerment and locates women as radical social agents. It attempts to question the complicity of social structures and relations in preserving gender inequality. This is extended to cover new forms of precarious work and labour under the new economy.

Learning outcomes

After completing this course, the students will be able to:

- Understand the concept of patriarchy, feminism, gender, etc.
- Understand the intersection between family, community and state in feminist debates
- Demonstrate awareness of the history of the women's movement in India
- Show familiarity with and awareness of the key issues taken up by the women's movement

SYLLABUS OF GE-9

UNIT – I (7.5 Hours)

Patriarchy and Feminism

- a. Sex-Gender Debates
- b. Public and Private Dichotomy
- c. Power

UNIT – II (7.5 Hours)

Family and Community

UNIT – III (7.5 Hours)

Law, State and Women

UNIT – IV (7.5 Hours)

History of the Women’s Movement in India

UNIT – V (7.5 Hours)

Violence against women

UNIT – VI (7.5 Hours)

Women and Labour: Unpaid labour, Reproductive and care work, Sex work

Essential/recommended readings

Patriarchy and Feminism

N. Menon (2008) ‘Gender’, in R. Bhargava and A. Acharya (eds), *Political Theory: An Introduction*, Delhi: Pearson

V Geetha (2002) *Gender*, Kolkata, Stree, pp. 1-20.

M. Kosambi (2007) *Crossing the Threshold*, New Delhi, Permanent Black, pp. 3-10; 40-46.

N. Menon (2008) ‘Power’, in R. Bhargava and A. Acharya (eds), *Political Theory: An Introduction*, Delhi: Pearson, pp.148-157

B. Hooks (2010) ‘Feminism: A Movement to End Sexism’, in C. McCann and S. Kim (eds), *The Feminist Reader: Local and Global Perspectives*, New York: Routledge, pp. 51-57.

R. Delmar (2005) ‘What is Feminism?’, in W. Kolmar & F. Bartkowski (eds) *Feminist Theory: A Reader*, pp. 27-37

N. Menon (2015), Is Feminism about ‘Women’? A Critical View on Intersectionality from India, *International Viewpoint*,
http://www.internationalviewpoint.org/IMG/article_PDF/article_a4038.pdf.

T. Shinde (1993) ‘Stree Purusha Tulna’, in K. Lalitha and Susie Tharu (eds), *Women Writing in India*, New Delhi, Oxford University Press, pp. 221-234

U. Chakravarti (2001) ‘Pitrasatta Par ek Note’, in S. Arya, N. Menon & J. Lokneeta (eds.) *Naarivaadi Rajneeti: Sangharsh evam Muddey*, University of Delhi: Hindi Medium Implementation Board, pp.1-7

Family and Community

R. Palriwala (2008) ‘Economics and Patriliney: Consumption and Authority within the Household’ in M. John. (ed) *Women's Studies in India*, New Delhi: Penguin, pp. 414-423

Saheli Women's Centre (2007) *Talking Marriage, Caste and Community: Women's Voices from Within*, New Delhi: monograph 114

U. Chakravarti (2003) *Gendering Caste through a Feminist Lens*, Kolkata, Stree, pp. 139-159.

S. Rege (2005), A Dalit Feminist Standpoint, in Gender and Caste, in Anupama Rao (ed) *Gender and Caste*, Zed Books, pp. 90-101

Kumkum Sangari (1995) Politics of Diversity: Religious Communities and Multiple Patriarchies, *Economic and Political Weekly*, Vol. 30, No. 52,, pp. 3381-3389

Law, State and Women

C. MacKinnon, 'The Liberal State' from *Towards a Feminist Theory of State*, Available at <http://fair-use.org/catharine-mackinnon/toward-a-feminist-theory-of-the-state/chapter-8>

R. Kapur & B. Cossman (1999) 'On Women, Equality and the Constitution: Through the Looking Glass of Feminism' in Nivedita Menon (ed) *Gender and Politics in India*, Oxford University Press

C MacKinnon (2006) 'Sex Equality under the Constitution of India: Problems, Prospects and Personal Laws', *International Journal of Constitutional Law*, Volume 4, Issue 2, 181–202.

Ved Kumari (1999) 'Gender Analyses of Indian Penal Code' in Amita Dhanda, Archana Parashar(eds) *Engendering Law - Essays in Honour of Lotika Sarkar*, Eastern Book Company, 139-160

History of the Women's Movement in India

Radha Kumar (1993), *The History of Doing: An Illustrated Account of Movements for Women's Rights and Feminism in India, 1800-1990*, Zubaan

Anupama Roy (2010) *Women's Movement in N.G. Jayal and P.B. Mehta (Ed.) Oxford Companion to Indian Politics*, New Delhi, Oxford

I. Agnihotri and V. Mazumdar (1997) 'Changing the Terms of Political Discourse: Women's Movement in India, 1970s-1990s', *Economic and Political Weekly*, 30 (29), pp. 1869-1878.

R. Kapur (2012) 'Hecklers to Power? The Waning of Liberal Rights and Challenges to Feminism in India', in A. Loomba *South Asian Feminisms*, Durham and London: Duke University Press, pp. 333-355

Violence against women

N. Menon (2004) 'Sexual Violence: Escaping the Body', in *Recovering Subversion*, New Delhi: Permanent Black, pp. 106-165

F. Agnes (1992), Protecting Women Against Violence – Review of a Decade of Legislation 1980-89, *Economic and Political Weekly*, Vol. 27, Issue No. 17, Apr. 25.

Sunita V S Bandewar, Amita Pitre & Lakshmi Lingam (2018) Five Years Post Nirbhaya: Critical Insights into the Status of Response to Sexual Assault, in *Indian Journal Of Medical Ethics*, available at <https://pubmed.ncbi.nlm.nih.gov/29650498/>

A. Verma, H. Qureshi & J.Y. Kim (2017) Exploring the trend of violence against women in India, *International Journal of Comparative and Applied Criminal Justice*, 41:1-2, 3-18

Women and Labour

P Swaminathan (2014) Outside the Realm of Protective Legislation: The Saga of Unpaid Work in India, in *Women and Law: Critical Feminist Perspective*: New Delhi: Sage, pp. 115-143

P. Swaminathan (2012) 'Introduction', in *Women and Work*, Hyderabad: Orient Blackswan, pp.1-17

J. Tronto (1996) 'Care as a Political Concept', in N. Hirschmann and C. Stephano, *Revisioning the Political*, Boulder: Westview Press, pp. 139-156.

Darbar Mahila Samanwaya Committee, Kolkata (2011) 'Why the so-called Immoral Traffic (Preventive) Act of India Should be Repealed', in P. Kotiswaran, *Sex Work*, New Delhi, Women Unlimited, pp. 259-262

N. Jameela (2011) 'Autobiography of a Sex Worker', in P. Kotiswaran, *Sex Work*, New Delhi: Women Unlimited, pp. 225-241

Suggestive readings

K. Millet (1968) *Sexual Politics*, <http://www.marxists.org/subject/women/authors/millett-kate/sexualpolitics.htm>

S. de Beauvoir (1997) *Second Sex*, London: Vintage.

F. Engels, *Family, Private Property and State*, <http://readingfromtheleft.com/PDF/EngelsOrigin.pdf>

S. Brownmiller (1975) *Against our Wills*, New York: Ballantine.

R. Hussain (1988) 'Sultana's Dream', in *Sultana's Dream and Selections from the Secluded Ones – translated by Roushan Jahan*, New York: The Feminist Press.

S. Ray 'Understanding Patriarchy', http://www.du.ac.in/fileadmin/DU/Academics/course_material/hrge_06.pdf,

C. Zetkin, 'Proletarian Woman', <http://www.marxists.org/archive/zetkin/1896/10/women.htm>

J. Ghosh (2009) *Never Done and Poorly Paid: Women's Work in Globalising India*, Delhi: Women Unlimited

Justice Verma Committee Report, <http://nlrd.org/womensrightsinitiative/justiceverma-committee-report-download-full-report>

N. Gandhi and N. Shah (1992) *Issues at Stake – Theory and Practice in the Women's Movement*, New Delhi: Kali for Women.

V. Bryson (1992) *Feminist Political Theory*, London: Palgrave-MacMillan, pp. 175-180; 196- 200

M. Mies (1986) 'Colonisation and Housewifisation', in *Patriarchy and Accumulation on a World Scale* London: Zed, pp. 74-111, <http://caringlabor.wordpress.com/2010/12/29/maria-mies-colonizationand-housewifization/>

R. Ghadially (2007) *Urban Women in Contemporary India*, Delhi: Sage Publications.

Saheli Women's Centre (2001) 'Reproductive Health and Women's Rights, Sex Selection and feminist response' in S Arya, N. Menon, J. Lokneeta (eds), *NariwadiRajneeti*, Delhi, pp. 284- 306

V. Bryson (2007) *Gender and the Politics of Time*, Bristol: Polity Press

Readings in Hindi:

D. Mehrotra (2001) *Bhartiya Mahila Andolan: Kal, Aaj aur Kal*, Delhi: Books for Change

G. Joshi (2004) *Bharat Mein Stree Asmaanta: Ek Vimarsh*, University of Delhi: Hindi Medium Implementation Board

N. Menon (2008) 'Power', in R. Bhargava and A. Acharya (eds) *Political Theory: An Introduction*, New Delhi: Pearson

N. Menon (2008) 'Gender', in R. Bhargava and A. Acharya (eds) *Political Theory: An Introduction*, New Delhi, Pearson

R. Upadhyay and S. Upadhyay (eds.) (2004) *Aajka Stree Andolan*, Delhi: Shabd Sandhan.

मेनन, निवेदिता, साधना आर्या और जिनी लोकनीता (ed.) नारीवादी राजनीति: संघर्ष एवं मुद्दे, दिल्ली: हिंदी माध्यम कार्यन्वय निदेशालय, 2001.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-10): Digital Social Sciences

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/ Practice		
Digital Social Sciences GE-10	4	3	1	0	12 th Pass	NIL

Learning Objectives

Digital technology in the discipline of Social Science cannot be viewed only as a tool for research but as something that transforms the nature of Social Science and the object of its study- the society- in course of researching about it. This very aspect of digital technology and its capacity for social transformation is the mainstay of the emerging field of Digital Social Sciences. The course aims to introduce students to this field of Digital Social Science sby primarily focussing on two intertwined aspects of the field- first, impact of digital technologies on the society and two, the role of digital technologies in the study of Social Sciences or the study of society. The intertwined aspect of the twin focus can be alternately formulated as the attempt of the course to understand social change taking place under the impact of digital technology while digital technology providing with the tools to map out these changes. The course begins with a basic introduction to digital literacy and its contribution to pedagogic Social Science and proceeds by way of foundational introduction to prominent technologies and digital spaces through which the aspects of the social can be understood. The course throws light on how the digital turn has redefined the contours of debates surrounding personal identity and social identification through biometrical techniques having consequences both for social welfare and social surveillance; whether access to the digital spaces is impacting social cleavages, creating space for democracy or re-entrenching social inequality through the digital divide; is the digital economy offering new forms of employment or restructuring the vulnerability of the forms of labour; and how is algorithm driven digital space reformulating social choice and social classification. These are some of the illustrative questions through which the course intends to reflect upon the evolving relationship between digital technologies and social sciences.

Learning outcomes

On successful completion of the course, the students would demonstrate:

- An understanding of digital technology and the ways in which it shapes the society.
- An understanding into how digital tools are used as research and pedagogic devices to map out social changes
- Clarity on concepts of the digital world such as Big Data, Artificial Intelligence, Algorithm, etc.
- Familiarity with digital techniques such as the biometrics and digital spaces such as the Social Media in the sphere of communication or the Gig Economy in the market sphere

SYLLABUS OF GE-10

UNIT – I (4 Hours)

Digital Literacy in Social Sciences

UNIT – II (7 Hours)

Digital Information and Science of Society

UNIT – III (7 Hours)

Biometrics and identification

UNIT – IV (8 Hours)

Access to Technology and the Internet

UNIT – V (8 Hours)

Social Media and Public Sphere

UNIT – VI (4 Hours)

Labour in Digital Economy

UNIT – VII (7 Hours)

Artificial Intelligence and Algorithm

Essential/recommended readings

1. Digital Literacy in Social Sciences

Polizzi, Gianfranco, 'Information literacy in the digital age: why critical digital literacy matters for democracy.' In: Goldstein, Stéphane (ed.) *Informed societies: why information literacy matters for citizenship, participation and democracy*. Facet Publishing, London, UK (2020), 1-23.

Robert Todd Perdue & Joshua Sbicca (2013) "Public Access: For Socially Relevant. Knowledge Production and a Democratic Cybersphere", *Fast Capitalism*, Volume 10, Issue 1, 2013

2. Digital Information, Data and Society

Buckland, Michael. *Information and Society*. United Kingdom: MIT Press, 2017. (Chapter 1 and 2)

Sandeep Mertia (edited), *Lives of Data: Essays on Computational Cultures from India*. Netherlands: Institute of Network Cultures, 2020. (Introduction), pp. 9-25.

Holmes, Dawn E.. *Big Data: A Very Short Introduction*. United Kingdom: Oxford University Press, 2017.

Sinha, Amber (2019). "The Politics of India's Data Protection Ecosystem," *Economic and Political Weekly*. Vol. 54, Issue No. 49, 14 Dec, 2019.

3. Biometrics and identification

Fairhurst, Michael. *Biometrics: A Very Short Introduction*. United Kingdom: OUP Oxford, 2018.

Nayar, Pramod K., 'I Sing the Body Biometric': Surveillance and Biological Citizenship,' *Economic and Political Weekly*, Vol. 47, No. 32 (August 11, 2012)

Singh, P. 'Aadhaar: Platform over Troubled Waters.' In: Athique, A., Parthasarathi, V. (eds) *Platform Capitalism in India. Global Transformations in Media and Communication Research*, Palgrave Macmillan, 2020.

4. Access to Technology and the Internet

Agrawal, Ravi. 2018. *India Connected: How the Smartphone is Transforming the World's Largest Democracy*. New Delhi: Oxford University Press.

Jeffrey, Robin and Assa Doron. 2013. *Cell Phone Nation: How Mobile Phones Have Revolutionized Business, Politics and Ordinary Life in India*. Hachette India.

Narayanan Shalini and Sunetra Sen Narayan, *India Connected: Mapping the Impact of New Media*. India: SAGE Publications, 2016.

Venkatraman, Shriram. *Social Media in South India*. United Kingdom: UCL Press, 2017. (Chapter 6: *The Wider World: Social Media and Education in a Knowledge Economy*)

5. Social Media and Public Sphere

Sunstein, Cass R. *#Republic: Divided Democracy in the Age of Social Media*. United Kingdom: Princeton University Press, 2018.

Castells, Manuel. *Networks of Outrage and Hope: Social Movements in the Internet Age*. Germany: Polity Press, 2015. (Chapter 1)

Sinha, Amber. *The Networked Public: How Social Media Changed Democracy*. New Delhi: Rupa, 2019.

Philipose, Pamela. *Media's Shifting Terrain: Five Years that Transformed the Way India Communicates*. India: Orient BlackSwan, 2019.

Biju. P. R., *Political Internet: State and Politics in the Age of Social Media*. Taylor & Francis, 2016.

Rodrigues, U. (2020). Political Communication on Social Media Platforms. In: Athique, A., Parthasarathi, V. (eds) *Platform Capitalism in India. Global Transformations in Media and Communication Research*, Palgrave Macmillan, 2020.

6. Labour in Digital Economy

Chander, Anupam. *The Electronic Silk Road: How the Web Binds the World Together in Commerce*. United Kingdom: Yale University Press, 2013.

Dolber, Brian, Chenjerai Kumanyika, Michelle Rodino-Colocino, Todd Wolfson (edited), *The Gig Economy: Workers and Media in the Age of Convergence*. United Kingdom: Taylor & Francis, 2021. (Chapter 1 and 3)

Verma, Ravinder Kumar, P. Vigneswarallavarasan, and Arpan Kumar Kar, 'Inequalities in Ride-Hailing Platforms.' In: Athique, A., Parthasarathi, V. (eds) Platform Capitalism in India. Global Transformations in Media and Communication Research, Palgrave Macmillan, 2020.

7. Artificial Intelligence and Algorithms

Boden, Margaret A. *Artificial Intelligence: A Very Short Introduction*. London: Oxford University Press, 2018.

Frey, Carl Benedikt. *The Technology Trap: Capital, Labor, and Power in the Age of Automation*. United Kingdom: Princeton University Press, 2020. (Chapter 12: Artificial Intelligence)

Eubanks, Virginia. *Automating Inequality: How High-Tech Tools Profile, Police and Punish the Poor*. St Martin's Press. (2018) (Introduction: Red Flags)

Cheney-Lippold, J. *We Are Data: Algorithms and the Making of Our Digital Selves*. United States: NYU Press. (2017). (Introduction)

Pasquale, Frank. *The Black Box Society: The Secret Algorithms That Control Money and Information*. United States: Harvard University Press, 2015. (Introduction)

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

Statistics

**COMMON POOL OF GENERIC ELECTIVES (GE) COURSES
OFFERED BY DEPARTMENT OF STATISTICS
CATEGORY-IV**

GENERIC ELECTIVES : INTRODUCTORY PROBABILITY

**CREDIT DISTRIBUTION, ELIGIBILITY, AND PRE-REQUISITES OF THE
COURSE**

Course title & Code	Credits	Credit distribution of the Course			Eligibility Criteria	Pre-requisite of the Course (if any)
		Lecture	Tutorial	Practical/ Practice		
Introductory Probability	4	3	0	1	Class XII pass with Mathematics	Nil

Learning Objectives :

- Acquaint students with the mathematical foundation of probability.
- familiarize students with important tools for statistical analyses at introductory level.
- Introduction to some common discrete and continuous distributions and their properties.

Learning Outcomes:

After taking this paper, the student should be able to:

- Understand the meaning of probability and probabilistic experiment. Various approaches to probability theory and in particular the axiomatic approach. Laws of probability, conditional probability, conditioning, and reduced sample space, compute joint and conditional probabilities. Bayes' rule and applications.
- Understand the concept of a random variable, expectation and its properties, Compute variance and covariance in terms of expectation. Moment generating function and its properties.
- Get familiar with some standard discrete and continuous distribution and the usefulness of Central limit Theorem in daily life.

SYLLABUS OF GE

Theory

UNIT-I

(12 Hours)

Probability

Probability: Introduction, random experiments, sample space, events and algebra of events. Definitions of Probability – classical, statistical, and axiomatic. Conditional

Probability, laws of addition and multiplication, independent events, theorem of total probability, Bayes' theorem and its applications.

UNIT II

(18 Hours)

Random Variables

Random Variables: Discrete and continuous random variables, pmf, pdf, cdf. Illustrations of random variables and its properties. Expectation, variance, moments and moment generating function.

UNIT III

(15 Hours)

Probability Distributions

Standard probability distributions: Binomial, Poisson, Geometric, Negative Binomial, Hypergeometric, Uniform, Normal, Exponential, Beta, Gamma. De-Moivre Laplace and Lindeberg-Levy Central Limit Theorem (C.L.T.) (Only Statements)

PRACTICAL - 30 Hours

List of Practical:

1. Application problems based on addition law of probability.
2. Application problems based on conditional probability.
3. Application problems based on Bayes law.
4. Application problems based on Expectation of random variable.
5. Computing MGF and how it helps in finding moments.
6. Computing cdf for discrete and continuous random variables drawing its graph.
7. Fitting of binomial distributions for n and $p = q = \frac{1}{2}$
8. Fitting of binomial distributions for n and p given.
9. Fitting of binomial distributions computing mean and variance.
10. Fitting of Poisson distributions for given value of λ .
11. Fitting of Poisson distributions after computing mean.
12. Application problems based on binomial distribution.
13. Application problems based on Poisson distribution.
14. Problems based on area property of normal distribution.
15. To find the ordinate for a given area for normal distribution.
16. Application based problems using normal distribution.
17. Fitting of normal distribution when parameters are given.
18. Fitting of normal distribution when parameters are not given.
19. Computing probabilities using Microsoft Excel functions `binomdist()`, `poisson()`, `normsdist()`, `normsinv()`, `normdist()`, and `norminv()`.
20. Computing Binomial probabilities for large n and small p using Microsoft Excel functions `binomdist()` and `poisson()`.
21. Computing Binomial probabilities for large n and $p \in (0.4, 0.6)$ using Microsoft Excel functions `binomdist()` and `normdist()`.

Practical work to be conducted using electronic spreadsheet / EXCEL/ Statistical Software Package/ SPSS.

SUGGESTED READINGS:

1. Hogg, R.V., Tanis, E.A. and Rao, J.M. (2009). Probability and Statistical Inference, 7th Ed, Pearson Education, New Delhi.
2. Miller, I. and Miller, M. John E. Freund (2006). Mathematical Statistics with Applications, 7th Ed., Pearson Education, Asia.
3. Myer, P.L. (1970). Introductory Probability and Statistical Applications, Oxford & IBH Publishing, New Delhi.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch University of Delhi, from time to time.

GENERIC ELECTIVES : APPLICATIONS IN STATISTICS

CREDIT DISTRIBUTION, ELIGIBILITY, AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the Course			Eligibility Criteria	Pre-requisite of the Course (if any)
		Lecture	Tutorial	Practical/ Practice		
Applications in Statistics-II	4	3	0	1	Class XII pass with Mathematics	Nil

Learning Objectives:

- Acquaint students with the current official statistical system in India
- Familiarize students with important concepts of Demand Analysis
- Introduction to Utility and Production functions.

Learning Outcomes:

After taking this paper, the student should be able to:

- Understand the current and prevailing official statistical system in India, role of MoSPI, CSO, NSSO, and their important publication
- Understand the laws of demand and supply, Price and Income elasticity of demand.
- Differentiate between Partial and Cross Elasticities of Demand, Engel's law, Pareto's law, and different curves of concentration.
- Understand theory of utility function, Utility Curve, Marginal rate of substitution, Budget line, and Construction of Utility Curve.

SYLLABUS OF GE

Theory

Unit I (09 Hours)

Indian Official Statistics

Present official statistical system in India, Methods of collection of official statistics and their reliability and limitations. Role of Ministry of Statistics & Program Implementation (MoSPI), Central Statistical Office (CSO), National Sample Survey Office (NSSO), and National Statistical Commission. Government of India's Principal publications.

Unit II (12 Hours)

Demand Analysis

Concept of differentiation and partial differential.

Introduction: Demand and Supply and its laws, Price Elasticity of Demand, Income elasticity of demand, Nature of commodities, Partial and Cross Elasticities of Demand, Types of data required for its estimation, computation of demand function from given price elasticity of demand, Engel's law and Engel Curves, Pareto's law of income distribution, Curves of concentration.

Unit III (12 Hours)

Utility Function

Introduction: Theory of Utility, Statistical decision making under Utilities, general definition of utility function, advantages and disadvantage of Utility function, Utility Curve, Basic axioms of Utility, example of utility function, Indifference curves and their properties, Marginal rate of substitution, Budget line, constrained utility maximization, Construction of Utility Curve.

Unit IV (12 Hours)

Production Function

Production function, Marginal productivity, Average productivity, Degree of production function, Linear homogeneous production function, Euler's theorem, Returns to scales, Isoquants, Isocost curves, Equilibrium of the firm, Marginal rate of technical substitution, Elasticity of substitution, Constant elasticity of substitution.

PRACTICAL - 30 Hours

List of Practical

1. Fitting of demand curve.
2. Calculate income elasticity of demand from given data.
3. Calculation of price elasticity of demand from the given data.
4. Estimation of constant demand function.
5. To fit Engel's curve and draw them.
6. Comparison of inequality in distribution of expenditure.
7. Fitting of Pareto distribution to given data.
8. Computation and plotting of Lorenz Curve and computation of concentration ratio.

Practical work to be conducted using electronic spreadsheet / EXCEL/ Statistical Software Package/ SPSS.

ESSENTIAL READINGS:

- Fundamentals of Statistics, Vol.2, Goon, A. M., Gupta, M. K. and Dasgupta, B. (2001). World Press.
- Business Mathematics with Applications, S.R. Arora and Dinesh Khattar, S.Chand & Company Ltd.
- Applied Statistics, Parimal Mukhopadhyay (2011), Books and Allied (P) Ltd.
- Business Mathematics Theory and Applications, V.K. Kapoor (2012), Sultan Chand & Sons.

SUGGESTED READINGS:

- Guide to current Indian Official Statistics, Central Statistical Office, GOI, New Delhi.
- mospi.nic.in/nscr/iss.html.
- Business Mathematics with applications in Business and Economics, R.S. Soni, Pitambar Publishing Company (P) Ltd.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch University of Delhi, from time to time.



REGISTRAR