

BA ECONOMICS (Hons.)

(2019-2020)

SEMESTER I

Course Code: BEH 101: Introductory Microeconomics (Core Course)

Credits 5

L. T.P

4.1.0

Course Outcomes:

After completing this course the students will be able to:

1. Learn the basic principles of microeconomic theory.
2. Understand the efficiency and equity implications of market interference, including government policy.
3. Apply micro economic tools in solving socio- economic problems.
4. Analyze how households (demand) and businesses (supply) interact in various market structures to determine price and quantity of a good produced.
5. The students will also be made aware of evaluating how microeconomic concepts can be applied to analyze real life situations.
6. Create & develop the skills to think practically into the economic domain like an economist.

UNIT 1: Subject matter of Economics

Why study economics? Scope and method of economics; the economic problem: scarcity and choice; the question of what to produce, how to produce and how to distribute output; Science of economics; the basic competitive model; prices, property rights and profits; Incentives and information; rationing; opportunity sets; economic systems; reading and working with graphs.

UNIT 2: Demand & Supply

Markets and competition; determinants of individual demand/supply; demand/supply Schedule and demand/supply curve; market versus individual demand/supply; shifts in the Demand/supply curve, demand and supply together; how prices allocate resources; Elasticity and its application; controls on prices; taxes and the costs of taxation; Consumer Surplus; producer's surplus and the efficiency of the markets.

UNIT 3: Consumer Behaviour

The consumption decision - budget constraint, consumption and income/price changes, demand for all other goods and price changes; description of preferences (representing preferences with indifference curves); properties of indifference curves; consumer's optimum choice; income and substitution effects; labour supply and savings decision - choice between leisure and consumption.

UNIT 4: Markets

Behavior of profit maximizing firms and the production process; short run costs and output decisions; costs and output in the long run. Imperfect Market Structure Monopoly and anti-trust policy; government policies towards competition; imperfect competition.

UNIT 5: Labour Markets

Labour and land markets - basic concepts (derived demand, productivity of an input, marginal productivity of labour, marginal revenue product); demand for labour; input demand curves; shifts in input demand curves; competitive labour markets; and labour markets and public policy.

Suggested Readings

1. Karl E. Case and Ray C. Fair, *Principles of Economics*, Pearson Education Inc., 8th Edition, 2007.
2. N. Gregory Mankiw, *Economics: Principles and Applications*, India edition by South Western, a part of Cengage Learning, Cengage Learning India Private Limited, 4th edition, 2007.
3. Joseph E. Stiglitz and Carl E. Walsh, *Economics*, W.W. Norton & Company, Inc., New York, International Student Edition, 4th Edition, 2007.

BA ECONOMICS (Hons.)
(2019-2020)
SEMESTER I

Course Code: BEH 102: Mathematical Methods in Economics – I (Core Course)

Credits 5
L.T.P
4.1.0

Course Outcomes:

After completing this course the students will be able to:

1. Learn the basic mathematical methods related to economics.
2. Understand about applications of differentiation and integration in economic analysis.
3. Analyze and apply the mathematical fundamentals into the real work scenario.
4. Develop the skills towards learning statistical and econometric principles.
5. Evaluate the applied anatomy of mathematical foundations related to the field of economics.
6. Create and develop analytical skills to solve macroeconomic and microeconomic theories by applying mathematical tools.

Unit I Sets & Functions

Sets; types of sets and set operations; Cartesian product of two sets; relations; functions and their properties.

Unit II Functions of one real variable

Elementary types of functions: quadratic, polynomial, power, exponential, logarithmic; continuous functions: properties with respect to various operations, graphs and applications, Sequence and series: convergence, algebraic properties and applications.

Unit III Differentiation

Basic concept and rules of differentiation; second and higher order derivatives: properties and applications; Maxima and minima involving one independent variable relating to cost, revenue and profit. Some basic industrial applications.

Unit IV Integration

Basic integration formulae; evaluation of integration by methods of substitution and by parts. Indefinite integrals and the definite integral, area under the curves.

Unit V Difference equations

Introduction; definitions; formation of difference equations and solutions of linear difference equations.

Suggested Readings:

1. K. Sydsaeter and P. Hammond, *Mathematics for Economic Analysis*, Pearson Educational Asia: Delhi, 2002.
2. T. Bradley, *Essential Mathematics for Economics and Business*, 2nd edition revised, John Wiley and Sons, India, 2014.

**BA ECONOMICS (Hons.)
SEMESTER I**

Course Code: BEH- 103(A) Economic History of India (1857-1947) (Generic Elective)

**Credits 5
L.T.P
4.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Learn the economic aggregates like national income, foreign trade, balance of payments, money supply, prices etc., of India in Pre-British era.
2. Understand the development of Indian economic institutions and policies.
3. Apply economic theory to understand the economic dimensions of India under colonial rule.
4. Analyze the different stages of development of transport like railways, growth of industrial sector and growth of entrepreneurship and describe the problems faced by modern industrial sector during the pre-war and inter war period.
5. Evaluate and illustrate the requirement of economic changes.
6. Build the confidence to understand and develop point of view regarding the role of state and the functioning of fiscal policy.

UNIT 1.

Introduction & Background of Colonial India

Overview of colonial economy.

UNIT 2.

Macro Trends

National Income; population; occupational structure.

UNIT 3.

Agriculture

Agrarian structure and land relations; agricultural markets and institutions – credit, commerce and technology; trends in performance and productivity; famines.

UNIT 4.

Railways and Industry

Railways; the de-industrialization debate; evolution of entrepreneurial and industrial structure; nature of industrialization in the interwar period; constraints to industrial breakthrough; labor relations.

UNIT 5.

Economy and Role of State

The imperial priorities and the Indian economy; drain of wealth; international trade, capital flows and the colonial economy – changes and continuities; government and fiscal policy.

Suggested Readings:

1. Lakshmi Subramanian, “*History of India 1707-1857*”, Orient Blackswan, 2010, Chapter 4.
2. Sumit Guha, 1991, Mortality decline in early 20th century India’, *Indian Economic and Social History Review (IESHR)*, pp 371-74 and 385-87.
3. Tirthankar Roy, *The Economic History of India 1857-1947*, Oxford University Press, 3rd edition, 2011.
4. J. Krishnamurty, *Occupational Structure*, Dharma Kumar (editor), The Cambridge Economic History of India, Vol. II, (henceforth referred to as CEHI), 2005, Chapter
5. Irfan Habib, *Indian Economy 1858-1914*, A People’s History of India, Vol.28, Tulika, 2006.
6. Ira Klein, 1984, —When Rains Fail: Famine relief and mortality in British India, *IESHR* 21.
7. Jean Dreze, *Famine Prevention in India in Dreze and Sen (eds.) Political Economy of Hunger*, WIDER Studies in Development Economics, 1990

**BA ECONOMICS (Hons.)
SEMESTER I**

Course Code: BEH-103 (B) Comparative Economic Development (1850-1950) (Generic Elective)

**Credits 5
L.T.P
4.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Learn selected issues in comparative historical perspective over the 19th century and the first few decades of the 20th century.
2. Understand the role of agriculture and peasantry in economic development.
3. Apply the understanding of diverse trajectories and patterns of growth to achieve economic development.
4. Analyze and focus on a set of countries, which followed clearly varied trajectories to achieve their industrial transition and the role of the state in facilitating the respective trajectories.
5. Evaluate the outcomes of these diverse trajectories on sectoral change, inter-sectoral relations, labour processes and industrial relations.
6. Create an understanding of the organization of work and relationship between workers and managers.

Unit 1

Introduction and Perspectives on Comparative Economic Development

Comparative Economic Development of 19th Century and the first few decades of the 20th Century.

Unit 2

Economic Development of the countries

An overview of selected countries for case studies (Great Britain, Germany, South Asia, Japan, USA)

Unit 3

Agriculture- Agrarian surplus and the role of the peasantry in economic development.

Unit 4

Industry -The industrial revolution in Britain; Industrialization in late industrializes. The Role of the State in industrial and developmental transition.

Unit 5

The Factory System and Making of the Industrial Working Class

Division of labour, structure of industrial authority, organization of work and industrial production, relationship between workers and managers.

Suggested Readings:

1. Debraj Ray, *Development Economics*, Oxford University Press, 2009.
2. Amartya Sen, *Development as Freedom*, OUP, 2000
3. Daron Acemoglu and James Robinson, *Economic Origins of Dictatorship and Democracy*, Cambridge University Press,
4. E.J. Hobsbawm, *Industry and Empire: An Economic History of Britain since 1750*, Weidenfeld & Nicholson, 1968.
5. W.W. Lockwood, *Economic Development of Japan*, Expanded edition, Princeton University Press,
6. Dobb M., *Soviet Economic Development Since 1917*, Universal Book Stall, New Delhi.
7. Paul R. Gregory and Robert C. Stuart, *Soviet Economic Structure and Performance*, Harper & Row, 3rd edition

**BA ECONOMICS (Hons.)
SEMESTER I**

Course Code: BEH 104 English Communication(AECC)

**Credits 3
L.T.P
2.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Learn the effective use of lexical words in day to day conversation.
2. Understand the concepts of grammar and its use.
3. Apply the unique qualities of professional writing style, such as sentence conciseness, order organization and coherence.
4. Analyze using adverbs effectively.
5. Evaluate and develop correct sentence formation skills.
6. Develop creativity and communication skills which would be useful in enhancing employability.

UNIT 1: Grammar

Parts of Speech: Noun, Pronoun, Preposition, Verbs, Adverbs, Adjectives, Conjunctions, Interjection. Tenses, Auxiliary verbs, Modifiers, Voice.

UNIT 2: Vocabulary Skills

One Word Substitute, Synonyms/Antonyms, Homonyms, Indianism: common errors made in English.

UNIT 3: Communication Skills

Introduction to communication: meaning, features, process, barriers, Non- verbal aspects of communication (para language), Effective use of telephone with the use of protocol, Etiquettes of telephone conversation.

UNIT 4: Effective Handling of Verbal Communication& Corporate Issues

Use of concept of small talks, Giving and receiving feedback, handling complaints effectively

UNIT 5: Written Communication

Principles of written communication,Memo writing, Notice, Report writing

Suggested Readings:

1. Michael Swan” Practice English Usage”, Oxford University press 3rd Edition (Reprint 2006)
2. Chetananand Singh “ English is Easy ,BSC Publishers 2ND Edition (Reprint ,2009)
3. KavitaTyagi “Basic Technical Communication, PHI learning 2012 revised edition.
4. Varinder Bhatia “Business Communication, Khanna Book Publishers.
5. A.K Thakur “Lucent General English, Lucent Publishers (Reprint ,2009).
6. Fr. Lawrence Mandonca,” Applied English Grammar, Nova publications (Reprint 2006).

**BA ECONOMICS (Hons.)
SEMESTER I**

Course Code: BEH 105: Human Values and Professional Ethics

**Credits 2
L.T.P
2.0.0**

Course Outcomes:

After completing this course the students will be able to:

1. Learn the core values that shapes the ethical behavior of students and exposed awareness on professional ethics and human values.
2. Understand the basic perception of profession, professional ethics, various moral issues & uses of ethical theories.
3. Apply ethical principles to resolve situations that arises in their professional lives.
4. Analyze various social issues, industrial standards, code of ethics and role of professional ethics.
5. Evaluate risk benefit analysis, professional rights and responsibilities.
6. Create leadership skills and inculcate human values to become better human being and a good citizen.

Unit I

Human Values: Morals, values and Ethics, Integrity, Work ethic, Respect for others, Living peacefully- Caring, Sharing, Honesty, Courage, Valuing time, Cooperation, Commitment, Empathy, Self-confidence, Spirituality, Introduction to Yoga and meditation for professional excellence and stress management.

Unit II

Profession and Theories of Virtues: Attributes of profession, occupation versus profession, characteristics of a professional, profession as Independence versus professionalism as employee, Models of professional roles, theories of virtues, the ten commandments of character, modern theories of virtues.

Unit III

Moral Development and Code of Ethics: Variety of moral issues, Moral dilemmas, Moral Autonomy, Kohlberg's theory, Gilligan's theory, purposes served by codes of ethics, limitations of codes, Corporate code of ethics, balanced outlook on law, Ethical mentalities in business, International moral code, Self-interest, Uses of Ethical Theories.

Unit IV

Safety and Risk: Assessment of Safety and Risk, Risk Benefit Analysis and Reducing Risk, Respect for Authority, Collective Bargaining, Confidentiality, Conflicts of Interest, Occupational Crime, Professional Rights, Employee Rights, Intellectual Property Rights (IPR), Discrimination.

Unit V

Moral Leadership: Attributes of moral leadership, leadership categories, contribution for moral leadership, participation in professional societies, and leadership in communities.

Suggested Readings:

1. Human Values - Prof. A.N.Tripathi New Age International, 2009
2. Human Values and Professional Ethics - Jayshree, Suresh and B.S. Raghwan, S. Chand Publication, 2011-12
3. Just Business: Business Ethics in Action- Elaine Sternberg, Oxford University Press, 2000
4. Ethics in Engineering-Mike Martin and Roland Schinzinger, McGraw-Hill, New York, 1996.
5. Engineering Ethics-Govindarajan M, Natarajan S, Senthil Kumar V. S, Prentice Hall of India, New Delhi, 2004.

**BA ECONOMICS (Hons.)
SEMESTER II**

Course Code: BEH 201 Introductory Macroeconomics (Core Course)

**Credits 5
L.T.P
4.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Learn the basics of GDP and price indices.
2. Understand the factors determining gross domestic product, employment, the general level of prices, and interest rates
3. Apply the basic concepts of fiscal and monetary multipliers in the real world.
4. Analyze the causes of unemployment and prescribe solutions.
5. Evaluate the roles of fiscal and monetary policy in fighting inflation.
6. Create ability to comprehend the interaction between domestic economy and the rest of the world.

UNIT 1 Introduction to Macroeconomics

Basic issues studied in macroeconomics; measurement of gross domestic product; income, expenditure and the circular flow; real versus nominal GDP; price indices; national income accounting for an open economy.

UNIT 2 Keynesian Economics

Classical and Keynesian systems; simple Keynesian model of income determination; IS LM Model.

UNIT 3 Money

Functions of money; quantity theory of money; Determination of money supply and demand; credit creation; tools of monetary policy.

UNIT 4 Inflation and Unemployment

Inflation and its social costs, measures to control inflation & types of inflation, unemployment, Unemployment:Types, causes, measures to remove unemployment, Phillips curve.

UNIT 5 Balance of Payment

Balance of payments, factors influencing BOP & Balance of Trade, current and capital accounts.

Suggested Readings:

1. Dornbusch, Fischer and Startz, *Macroeconomics*, McGraw Hill, 11th edition, 2010.
2. N. Gregory Mankiw. *Macroeconomics*, Worth Publishers, 7th edition, 2010.
3. Olivier Blanchard, *Macroeconomics*, Pearson Education, Inc., 5th edition, 2009.
4. Richard T. Froyen, *Macroeconomics*, Pearson Education Asia, 2nd edition, 2005.
5. Andrew B. Abel and Ben S. Bernanke, *Macroeconomics*, Pearson Education, Inc., 7th edition, 2011.
6. Errol D'Souza, *Macroeconomics*, Pearson Education, 2009.

**BA ECONOMICS (Hons.)
SEMESTER II**

Course Code: BEH 202 Mathematical Methods in Economics II (Core Course)

Credits: 5

L.T.P

4.1.0

Course Outcomes:

After completing this course the students will be able to:

1. Learn the use of mathematical tools of algebra, calculus and probability in a variety of economic models
2. Understand the wide range of mathematical concepts and techniques that are standard in economic analysis.
3. Recognize the strengths and shortcomings of mathematical models in economics.
4. Groom and develop to the higher level of applied mathematical anatomy.
5. Evaluate numerical examples and algebraic models to illustrate a variety of theoretical economic results.
6. Create and develop analytical skills to solve macroeconomic and microeconomic theories by applying mathematical tools.

Unit I: Differential equations

Introduction; differential equations of first order and first degree: separation of variables; Homogeneous differential equations; linear differential equations.

Unit II: Linear algebra

Vector spaces: algebraic and geometric properties, scalar products, norms, orthogonality; linear transformations: properties, matrix representations and elementary operations; systems of linear equations: properties of their solution sets; determinants: characterization, properties and applications.

Unit III: Functions of several real variables

Geometric representations: graphs and level curves; differentiable functions: characterizations, properties with respect to various operations and applications; second order derivatives: properties and applications; the implicit function theorem, and application to comparative statics problems; homogeneous and homothetic functions: characterizations and applications.

Unit IV: Multi-variable optimization I

Simple two variables optimization; extreme value theorem; local extreme points; second derivative test for concaving/convexing for two variables; quasi concave and quasi-convex functions;

Unit V: Multi-variable optimization II

Unconstrained optimization: geometric Characterizations, characterizations using calculus and applications; constrained optimization with equality constraints: geometric characterizations, Lagrange characterization using calculus and applications.

Suggested Readings:

1. K. Sydsaeter and P. Hammond, *Mathematics for Economic Analysis*, Pearson Educational Book, 2012.
2. S.L. Ross, *Differential Equations*, 3rd Ed., John Wiley and Sons, India, 2004

**BA ECONOMICS (Hons.)
SEMESTER II**

Course Code: BEH 203 (A)

Public Finance (Generic Elective)

**Credits: 5
L.T.P
4.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Learn the mechanism of functioning of public finance.
2. Understand the working of monetary and fiscal policies.
3. Apply microeconomic theories in understanding government interventions.
4. Analyze the elementary theories of product and factor taxation.
5. Evaluate the types of public needs and the mechanisms of their finance.
6. Create awareness about the structure of fiscal federalism in India.

UNIT-1 Overview of Fiscal Function

Tools of normative Analysis, Pareto Efficiency, Equity and the Social Welfare.

UNIT 2.

Market Failure, Public Good and Externalities.

UNIT 3.

Theory of Taxation, Elementary theories of Product and Factor Taxation (Excess Burden and Incidence).

UNIT 4. Analysis of Budget and Deficits

Fiscal Federalism in India, State and Local Finances.

UNIT-5. Indian Public Finance

Issues from Indian Public Finance, working of Monetary and Fiscal Policies, Current Issues of India's Tax System.

Suggested Readings:

1. Musgrave, R.A. and P.B. Musgrave, *Public Finance in Theory and Practice*, Mc- Graw Hill, 1989.
2. Mahesh Purohit, "*Value Added Tax: Experience of India and Other Countries*", Gayatri Publications, 2007.
3. KaushikBasu, and A. Maertens (ed.), *The Oxford Companion to Economics in India*, Oxford University Press, 2007.
4. M.M Sury, *Government Budgeting in India*, Commonwealth Publishers, 1990.
5. Shankar Acharya, "Thirty years of tax reform" in India, *Economic and Political Weekly*, May 2005.
6. Government of India, *Report of the 13th Finance Commission*.
7. *Economic Survey*, Government of India (latest).

**BA ECONOMICS (Hons.)
SEMESTER II**

**Course Code: BEH 203 (B) Understanding the Economic Survey and Union Budget
(GE)**

Credits: 5

L.T.P

4.1.0

Course Outcomes:

After completing this course the students will be able to:

1. Describe the comprehensive functions of Union Budget and Economic Survey.
2. Understand the composition and significance of external trade sector of India.
3. Apply the acquired knowledge in solving issues related to gender inequality in jobs and skill gaps.
4. Analyze the outcome of budget allocation and economic survey and prescribe solutions.
5. Evaluate the trends in social sector expenditure and means of financing them.
6. Develop point of view regarding the role of budget in effective utilization of resources for economic development of a country.

Unit 1

Understanding the Economic Survey

Meaning Functions and Importance of Economic Survey, Recent Survey Reports
Survey Organisations in India – MoSPI, NSSO, CSO

Unit-2

External Sector-India's merchandise trade, Composition of Trade, Trade deficit and Balance of Payments Developments, Spreading JAM across Indian Economy
Climate Change and Sustainable Development

Unit-3

Social Infrastructure, Employment and Human Development-Trends in Social Sector expenditure, educational challenges with reference to Pupil Teacher Ratio and Gender Parity Index, Child Labour, Skills Gaps and Employment, Human Development: International Comparisons (HDI and GDI)

Unit 4

Budget- Meaning, Types of Budget-Balance Budget versus Unbalanced Budget, Outcome Budget, ZBB versus Traditional Budgeting, Gender Budget, Preparation of Budget

Unit-5

Key to Budget Documents, Centre for Budget and Governance Accountability, union Budget of India, Making of Union Budget

Economic and Social Classification of Budget-rationale behind the classification

Budget at a glance, Receipt at a glance and Expenditure at a glance

Suggested Readings:

1. Dhillon, Amrita(2011) Fiscal Federalism in K Basu and A Maertens (ed) The Concise Oxford Companion to Economics in India.
2. <https://rbi.org.in/Scripts/AnnualReportPublications.aspx>
3. <https://www.weforum.org/reports>
4. “Balance of Payments” by Arvind Virmani pp280 to 285 in Basu and Maertens(2011) The Concise Oxford Companion to Economics in India.
5. Climate Change and Sustainable Development. Volume 2: Chapter 8 <http://indiabudget.nic.in/es2015-16/echapvol2-08.pdf>
6. Reddy Y V (2015) Continuity, Change and the Way Forward : Fourteenth Finance Commission. EPW Vol 50, Issue No. 21, 23 May 2015
7. www.indiabudget.nic.in
8. Nayyar, Deepak (2016) Beware of deficit fetishism. Mint dated Feb 23 2016. <http://www.livemint.com/Opinion/bOO5wF38I8YQ10zbNXr4hN/Beware-of-deficit-fetishism.html>
9. Rangarajan, C (2016) Full Marks on fiscal deficit. The Hindu. 8 March 2016. <http://www.thehindu.com/opinion/lead/full-marks-on-fixing-the-fiscal-deficit-at35/article8324348.ece>

**BA ECONOMICS (Hons.)
SEMESTER II**

Course Code: BEH 204 Environmental Science (AECC)

**Credits: 3
L.T.P
3.0.0**

Course Outcomes:

After completing this course the students will be able to:

1. Learn the objective, scope and importance of the study of environmental science.
2. Understand the natural environment and its relationships with human activities.
3. Apply integrate facts, concepts, and methods from multiple disciplines and apply to environmental problems.
4. Analyze and characterize human impacts on the environment.
5. Evaluate and implement scientific research strategies, including collection, management, evaluation, and interpretation of environmental data.
6. Create systems concepts, analyze and understand interactions between social and environmental processes.

Unit 1: Environmental Science and Ecosystem

- a. Definition of Environmental Science, multidisciplinary nature, Objective, scope and importance.
- b. Concept of an ecosystem, structure and function, energy flow, ecological succession, food chains, food webs, ecological pyramids.
- c. Introduction, types, characteristic features, structure and function of the following ecosystem:
 - Forest ecosystem
 - Grassland ecosystem
 - Desert ecosystem
 - Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Unit 2: Natural Resources and Biodiversity

a. Renewable and non-renewable resources. **b.** Natural resources and associated problems:

- **Forest resources:** Use and over-exploitation, deforestation, case studies, timber extraction, mining, dams and their effects on forests and tribal people.
- **Water Resources:** Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams – benefits and problems, water conservation, rainwater harvesting, watershed management.
- **Mineral Resources:** Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- **Food Resources:** World food problems, Changes in land use by agriculture and grazing, Effects of modern agriculture, Fertilizer/ pesticide problems, Water logging and salinity
- **Energy Resources:** Increasing energy needs, Renewable/ non-renewable, Use of Alternate energy sources, urban problems related to energy, Case studies
- **Land resources:** Land as a resource, land degradation, man-induced land-slides, Soil erosion and desertification, wasteland reclamation

b. Role of an individual in conservation of natural resources, equitable use of resources for sustainable lifestyles.

c. Definition of biodiversity, levels of biodiversity, value of biodiversity, threats to biodiversity (habitat loss, poaching of wildlife, man-wildlife conflicts).

d. Biodiversity at global, national and local levels, India as a biodiversity nation, biogeographical classification of India, hotspots of biodiversity.

e. Endangered and endemic species of India.

f. Conservation of biodiversity: In-situ and ex-situ conservation of biodiversity.

Unit 3: Environmental Pollution

Definition, causes, effects and control measures of Air Pollution, water pollution, soil pollution, marine pollution noise pollution, thermal pollution, nuclear hazards. Solid waste Management: causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution, pollution case studies, pollution case studies

Unit 4: Important Environmental and Social Issues, Management and Legislation

1. Climate change, global warming, acid rain, Ozone layer depletion, nuclear accidents and holocaust. Case studies.

2. Sustainable development, Resettlement and rehabilitation of people (its problems and concerns, case studies), Environmental ethics (issues and possible solutions), consumerism and waste products.

3. Disaster management: floods, earthquake, cyclone and landslides.

4. Environment Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and Control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act.

5. Issues involved in enforcement of environmental legislation, Public Awareness

6. Population growth (variation among nation), Population explosion (family welfare programme), 7.Environment and human health, human rights, value education, HIV/ AIDS, Women and Child Welfare, Role of Information Technology in Environment and human health, case studies.

Unit 5: Field work

1. Visit to a local area to document environmental assets- river/ forest/ grasslands/ hill /mountain

2. Visit to a local polluted site- Urban/ Rural/ Industrial/ Agricultural

3. Study of common plants, insects, birds

4. Study of simple ecosystems- pond, river, hill slopes, etc.

Suggested Readings:

1....Joseph K. &Nagendran R.: Essentials of Environmental studies; Pearson Edition

2. Santra S. C., Environmental Science; Central Book Agency.

3. Dhameja, S. K.:Environmental Studies; Katson books.

4. Srivastava Smriti: Environmental Studies; Katson books.

5. Deswal, S. &Deswal A.: A Basic Course in Environmental Studies; DhanpatRai& Co.

BA ECONOMICS (Hons.)

SEMESTER II

Course Code: BEH 205 (A) Legal Literacy (Open Elective)

Credits: 2

L.T.P

2.0.0

Course Outcomes

After completing this course the students will be able to:

1. Acquaint themselves with the structure and manner of functioning of the legal system in India.
2. Understand the Constitution and laws of India, the formal and alternate dispute redressal (ADR) mechanisms that exist in India and public interest litigation.
3. Engage in practical application of the acquired knowledge in the field of legal awareness and functioning.
4. Analyze the individual rights and be aware of one's duties within the legal framework; and the opportunities and challenges posed by the legal system for different sections of persons.
5. Become aware of the institutions that comprise the legal system - the courts, police, jails and the system of criminal justice administration.
6. Create a holistic understanding of democratic practices and influence their choices as responsible, aware and informed citizens.

Unit I

Outline of the Legal System in India: System of courts/tribunals and their jurisdiction in India - criminal and civil courts, writ jurisdiction, specialized courts such as juvenile courts, Mahila courts and tribunals.

UNIT II

Role of the Police and Executive in Criminal Law Administration, Alternate dispute mechanisms such as lokadalats, non - formal mechanisms.

Unit III

Brief Understanding of the Laws Applicable in India Constitution - fundamental rights, fundamental duties, other constitutional rights and their manner of enforcement, with emphasis on public interest litigation and the expansion of certain rights under Article 21 of the Constitution.

UNIT IV

Laws Relating to Criminal Jurisdiction - provision relating to filing an FIR, arrest, bail search and seizure and some understanding of the questions of evidence and procedure in Cr. P.C. and related laws, important offences under the Indian, Penal code, offences against women, juvenile justice, prevention of atrocities on, Scheduled Castes and Scheduled Tribes. Concepts like Burden of Proof, Presumption of Innocence, Laws relating to contract, property and tenancy laws, Laws relating to dowry, sexual harassment and violence against women, Laws relating to consumer rights, Laws relating to cyber-crimes, Anti-terrorist laws: implications for security and human rights .

UNIT V

Principles of Natural Justice: Fair comment under Contempt laws. Personal laws in India, Pluralism and Democracy. Access to courts and enforcement of rights: Critical Understanding of the Functioning of the Legal System, Legal Services Authorities Act and right to legal aid, ADR systems.

CASE STUDY

Practical application:

What to do if you are arrested ; if you are a consumer with a grievance; if you are a victim of sexual harassment; domestic violence, child abuse, caste, ethnic and religious discrimination; filing a public interest litigation. How can you challenge administrative orders that violate rights, judicial and administrative remedies.

Using a hypothetical case of (for example) child abuse or sexual harassment or any other violation of a right, preparation of an FIR or writing a complaint addressed to the appropriate authority.

Suggested exercises for students

1. Discuss the debates around any recent Ordinance, Bill or Act in Parliament.
2. How to file an FIR? In case there has been a theft in the neighbourhood how would you file the first Hand Information Report?
3. Under what circumstances can detention and arrest become illegal?
4. Discuss any contemporary practice or event that violates the equality and protection against discrimination laws.

5. Read Ordinance XV -D of University of Delhi and make a list of the kinds of conduct that would qualify as sexual harassment.
6. Your friend has shared with you an incident of unwelcome verbal remarks on her by a person of higher authority in your college, what would you do?
- 7 You have seen a lady in your neighbourhood being beaten up by her husband. Identify the concerned Protection Officer in case you want to provide information about this incident.
8. Read the Vishakha Guidelines as laid down by the Supreme Court and the Act against sexual harassment at the workplace. Discuss what constitutes sexual harassment and the mechanism available for its redressal in your institution.
- 9 What is the procedure to file an RTI?
10. You bought a product from a nearby shop which was expired, the shop keeper refused to return it. Use your knowledge of Consumer Protection Act to decide what you do next?
11. What must you keep in mind as a consumer while making a purchase that may later help you make use of Consumer Protection Act? (Hint- Should you ask for a Bill?)
12. In your surroundings have you witnessed any incident that would be considered offensive under the SC and ST Act? Make a class- room presentation on it.

SUGGESTED READING

- *Creating Legal Awareness*, edited by Kamala Sankaran and Ujjwal Singh (Delhi: OUP, 2007)
- Legal literacy: available amongst interdisciplinary courses on Institute of Life Long Learning(Delhi University) Virtual Learning Portal namely vle.du.ac.in

Reading list for course on Legal Literacy

- Multiple Action Research Group, *Our Laws Vols 1-10*, Delhi. Available in Hindi also.
- Indian Social Institute, New Delhi, *Legal Literacy Series Booklets*. Available in Hindi also.
- S.K. Agarwala, *Public Interest Litigation in India*, K.M. Munshi Memorial Lecture, Second Series, Indian Law Institute, Delhi, 1985.
- S.P. Sathe, *Towards Gender Justice*, Research Centre for Womens' Studies, SNDT Women's University, Bombay, 1993.
- Asha Bajpai, *Child Rights in India : Law, Policy, and Practice*, Oxford University Press, New Delhi, 2003
- Agnes, Flavia *Law and Gender Equality*, OUP, 1997.
- Sagade, Jaga, *Law of Maintenance: An Empirical Study*, ILS Law College, Pune 1996.
- B.L. Wadhera, *Public Interest Litigation - A Handbook*, Universal, Delhi, 2003.
- Nomita Aggarwal, *Women and Law in India*, New Century, Delhi, 2002.
- P.C. Rao and William Sheffiled *Alternate Dispute Resolution: What it is and How it Works*, Universal Law Books and Publishers, Delhi, 2002
- V.N. Shukla's *Constitution of India* by Mahendra P. Singh, Eastern Book Co. 10th edition 2001.
- Parmanand Singh, 'Access to Justice and the Indian Supreme Court', 10 & 11 Delhi Law Review 156, 1981-82.
- J. Kothari, (2005) 'Criminal Law on Domestic Violence', *Economic and Political Weekly*, Vol. 40(46), pp. 4843-4849.
- P. Mathew, and P. Bakshi, (2005) '*Indian Legal System*', New Delhi: Indian Social Institute.
- P. Mathew, and P. Bakshi, (2005) '*Women and the Constitution*', New Delhi: Indian Social Institute.
- N. Menon, (2012) 'Sexual Violence', in *Seeing Like a Feminist*, New Delhi: Zubaan and Penguin, pp. 113-146.

Rule of law and the Criminal Justice System in India

- Andrew, (1996) 'Arbitrary Government and the Rule of Law', in *Arguing About the Law*,
- *An Introduction to Legal Philosophy*, Wordsworth, Boston.Pp.3-19.
- SAHRDC, (2006) 'Criminal Procedure and Human Rights in India' in *Oxford Handbook of Human Rights and Criminal Justice in India- The system and Procedure*, New Delhi: Oxford University Press, pp.5-15.
- K. Sankaran and U. Singh, (2008) 'Introduction', in *Towards Legal Literacy*. New Delhi: Oxford University Press, pp. xi – xv.

Laws relating to criminal justice administration

- Pandey, (2008) 'Laws Relating to Criminal Justice: Challenges and Prospects', in K.
- Sankaran and U. Singh, *Towards Legal Literacy*, New Delhi: Oxford University Press, pp.61-77.
- SAHRDC, (2006)'Reporting a Crime: First Information Report', in *Oxford Handbook of Human Rights and Criminal Justice in India- The system and Procedure*, New Delhi: Oxford University Press, pp.16-26.
- SAHRDC, (2006) 'Bail', in *Oxford Handbook of Human Rights and Criminal Justice in India-The system and Procedure*, New Delhi: Oxford University Press, pp.59-71.
- SAHRDC, (2006) 'Detention', in *Oxford Handbook of Human Rights and Criminal Justice in India- The system and Procedure*. New Delhi: Oxford University Press, Pp.72-84.
- P. Mathew, (2003) *Your Rights if you are Arrested*, New Delhi. Indian Social Institute.

Equality and non-discrimination

- Gender Study Group, (1996) *Sexual Harassment in Delhi University, A Report*, Delhi: University of Delhi.
- P. Mathew, (2002) *The Law on Atrocities Against Scheduled Castes and Scheduled Tribes*, New Delhi: Indian Social Institute.
- K. Saxena, (2011) 'Dalits', in M. Mohanty et al., *Weapon of the Oppressed, Inventory of People's Rights in India*. Delhi: Danish Books, Pp.15-38
- K. Saxena, (2011) 'Adivasis', in M. Mohanty et al., *Weapon of the Oppressed, Inventory of People's Rights in India*, Delhi: Danish Books, Pp.39-65.
- S. Durrany, (2006) *The Protection of Women From Domestic Violence Act 2005*, New Delhi: Indian Social Institute.
- V. Kumari, (2008) 'Offences Against Women', in K, Sankaran and U. Singh (eds.) *Towards Legal Literacy*, New Delhi: Oxford University Press.
- P. D. Mathew, (2004) *The Measure to Prevent Sexual Harassment of Women in Work Place*. New Delhi: Indian Social Institute.
- D. Srivastva, (2007) 'Sexual Harassment and Violence against Women in India: Constitutional and Legal Perspectives', in C. Kumar and K. Chockalingam (eds) *Human Rights, Justice, and Constitutional Empowerment*, Delhi: Oxford University Press.

Empowerment

- S. Naib, (2013) 'Right to Information Act 2005', in *The Right to Information in India*, New Delhi: Oxford University Press, Available at
- http://www.humanrightsinitiative.org/publications/rti/guide_to_use_rti_act_2005_Eng
- Lish2012_light_Aspire.pdf. Bare Acts: *Consumer Protection Act, 1986*, Available at http://chdsla.gov.in/right_menu/act/pdf/consumer.pdf.
- *Criminal law Amendment Act, 2013*, Available at http://egazette.nic.in/WriteReadData/2013/E_17_2013_212.pdf, Accessed: 10.04.2013.
- *Protection of Women Against Domestic Violence Act, 2005*, Available at <http://wcd.nic.in/wdvact.pdf>.

**BA ECONOMICS (Hons.)
SEMESTER II**

Course Code: BEH 205 (B) General Psychology (Open Elective)

**Credits: 2
L.T.P
2.0.0**

Course Outcomes

After completing this course the students will be able to:

1. Define the major approaches that psychologists use to understand behaviour and mental processes.
2. Gain understanding of psychological theory and research that psychologists use to understand mental processes.
3. Apply understanding of psychological theory regarding the relationship between physiology, cognition and emotion.
4. Analyze the various theories in developmental psychology.
5. Evaluate the importance and applications of psychology in workplace and health.
6. Comparing and contrasting the major perspectives in psychology.

Unit I: Orientation to Psychology: Nature, fields and applications of psychology

Unit II: Personality: Theories of personality: Freud, Adler and Jung

Unit III: Psycho-social Development: Erikson's Psychosocial Theory of Development

Unit IV: Memory: Theories of Memory

Unit V: Applications of Psychology: Work and Health.

Suggested Readings:

1. Chadha, N. K. and Seth, S. (2014). The Psychological Realm: An Introduction. Pinnacle Learning, New Delhi.
2. Ciccarelli, S. K & Meyer, G.E. (2008). Psychology (South Asian Edition). New Delhi: Pearson
3. Feldman.S.R. (2009).Essentials of understanding psychology (7th Ed.) New Delhi: Tata McGraw Hill.
4. Glassman,W.E.(2000).Approaches to Psychology(3rd Ed.) Buckingham: Open University Press.
5. Michael,W., Passer, Smith,R.E.(2007). Psychology The science of mind and Behavior. New Delhi: Tata McGraw-Hill.

**BA ECONOMICS (Hons.)
SEMESTER II**

Course Code: BEH 207 Career Skills- I (SEC)

**Credits: 3
L.T.P
2.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Learn the process and elements of effective speaking.
2. Understand the use of series of techniques necessary to analyze, contrast, compare, organize and execute logical reasoning problems.
3. Apply the linguistic and reasoning skills in competitive examinations.
4. Analyze the problem to solve the problem and infer solution from the given directions.
5. Examine the current affairs of India and the world.
6. Construct an aptitude for general awareness and current affairs.

UNIT 1:

Classification of numbers, rules of divisibility, properties of remainders, LCM-HCF and their applications, concept of the last digit, concept of alpha numerals. Practice of questions based on number system concepts.

UNIT 2:

Concept of percentage and percentage equivalent of fractions, multiplication factor, importance and understanding of the base in calculations, concept and application of the successive percentage change rule.

Concept of profit, loss and discount and its application. Understanding and practice of questions based on addition of impurity and unequal quantity buying and selling concept.

UNIT 3:

Concept and understanding of simple and compound interest and their difference, understanding CI as an application of the successive percentage change rule, concept of effective rate of interest and practice of all the types of problems in SI and CI.

Concept and understanding of average, weighted average and its application. Practice of problem based on age related concepts.

UNIT 4: Verbal Ability

Sentence Arrangement, Ordering of Words, Spotting Errors, Synonyms & Antonyms, Selecting Words.

UNIT 5: Comprehension&General Knowledge

Ordering of words and sentences, para fumbles, fill in the blanks. Abbreviations & Acronyms, Important Days, Dates & events, First of everything, Awards and Honours, capital, currencies, language, World affairs.

Suggested Readings:

1. R.S. Aggarwal, S.Chand, 'A Modern Approach to Verbal and Non-Verbal Reasoning', Revised Edition, 2010
2. M.K. Pandey, BSC Publisher, 'Analytical Reasoning', 2009
3. Disha Experts, Disha Publications, 'The Mega Year Book 2017', II Edition, 2016
4. KiranPrakahsan, KiranPrakahsan, 'SSC Algebra, Trigonometry, Geometry Mensuration', Think Tank Edition 2015

BA ECONOMICS(Hons.)

SEMESTER III

Core course: BEH 301 Microeconomics-II (Core Course)

**Credits: 5
L.T.P
4.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Learn the nature and consequences of general equilibrium.
2. Understand and explain the consumers' and firms' behavior.
3. Apply economic theory to diverse real-world situations.
4. Analyze economic problems and prescribe solutions.
5. Evaluate these theoretical models to address real-world problems.
6. Create and develop analytical skills for microeconomic analysis.

UNIT 1

Utility; Budget constraint; Choice; Demand, Hicksian and Slutsky equation; buying and selling; choice under risk and Inter-Temporal choice; Revealed Preference.

UNIT- 2

Production: Production Technology; Iso-quant; production with one and more variable inputs; returns to scale.

UNIT 3

General Equilibrium, Efficiency; Welfare-Equilibrium and Efficiency under Pure Exchange and production; overall efficiency and welfare economics; Externalities

UNIT 4

Perfect Competition Equilibrium, Cost Curves in the Short run and Long run; Review of perfect competition.

UNIT 5

Market Structures & Monopoly; Pricing with market power; Price discrimination; Peak-load pricing; two-part tariff; Monopolistic competition and Oligopoly; Competitive strategy & Game theory; Market failures.

Suggested Readings:

1. Hal R. Varian, *Intermediate Microeconomics: A Modern Approach*, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.
2. C. Snyder and W. Nicholson, *Fundamentals of Microeconomics*, Cengage Learning (India), 2010.
3. B. Douglas Bernheim and Michael D. Whinston, *Microeconomics*, Tata McGraw- Hill (India), 2009.

BA ECONOMICS(Hons.)

SEMESTER III

Course Code: BEH 302 Agriculture Economics (Core Course)
Credits 5

L.T.P
4.1.0

Course Outcomes:

After completing this course the students will be able to:

1. Learn and identify the opportunities available in flourishing sectors such as horticulture, fishing and floriculture and forestry and find new investment opportunities to add income and employment.
2. Understand limited resources available in the economy and its optimum utilization.
3. Apply the acquired knowledge to exploit and utilize through development and improvement of production techniques.
4. Examine the overall development and engine of growth in agriculture and draw distinctive features of agricultural and non-agricultural which can influence the whole economy.
5. Determine the availability of rich natural endowments to achieve sustainable agricultural development.
6. Construct appropriate measures for the whole economy with the acquired knowledge in productivity and production, social and economic inequality and size of land holdings.

UNIT-1

Agriculture and economic development; Agriculture – Industry Linkage, Interaction between agriculture and the rest of the economy; Agriculture and rural poverty.

UNIT-2

Productivity in agriculture, Traditional agriculture and its modernization question.

UNIT-3

12 Theories and models: Physiocratic model of agricultural development, Mellor & Schultz models of agricultural development.

UNIT-4

Agricultural Production Economics- meaning and basic concepts of production economics in agriculture, The principles of resources allocation: production function approach, increasing and diminishing production function, total, average and marginal product curves, and the relation between them, stages of rational and irrational production.

UNIT-5

The general conditions of equilibrium, factor-product, factor-factor and product-product relationship.

Suggested Readings:

1. Bhaduri, A. (1984): The Economic Structure of Backward Agriculture, Macmillan, Delhi.
2. Bilgram, S. A. R. (1996): Agricultural Economics, Himalaya Publishing House, Delhi.
3. Rudra, A. (1982): Indian Agricultural Economics: Myths and Reality, Allied Publishers, New Delhi.
4. Ghatak, S. and K. Ingerscent (1984): Agriculture and Economic Development, Select books, New Delhi.
5. Soni, R. N. (1995): Leading Issues in Agricultural Economics, Arihant Press, Jalandhar.

**BA ECONOMICS(Hons.)
SEMESTER III**

Course Code: BEH 303 Statistical Methods for Economics (Core Course)

**Credits 5
L.T.P
4.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Understand business problems in appropriate statistical terms in order use data to make better decisions.
2. Learn to make sense of data along with the basics of statistical inference.
3. Develop critical and integrative thinking in order to communicate the results of the analysis clearly in the context of the problem.
4. Learn to articulate the conclusions and limitations of the analysis with a clear separation between data and judgment.
5. Demonstrate application of a range of statistical techniques to economic problems.
6. Construct statistical tools to study research problems.

UNIT-1 Introduction and Overview

Measures of central tendency (Mean; Median; Mode; Geometric mean; Harmonic mean); Characteristics of good average; The distinction between populations and samples and between population parameters and sample statistics; moments.

UNIT 2 Elementary Probability Theory

Sample spaces and events; probability axioms and properties; conditional probability and Bayes' rule; independence.

UNIT 3 Random Variables and Probability Distributions

Random variables: discrete and continuous; probability distributions; expected values of random variables and of functions of random variables; continuous distributions (binomial, poisson, normal, and exponential).

UNIT-4 Random Sampling and Jointly Distributed Random Variables

Density and distribution; functions for jointly distributed random variables; expected values; covariance and correlation coefficients.

Sampling: Principal steps in a sample survey; methods of sampling; the role of sampling theory; properties of random samples.

UNIT-5 Point and Interval Estimation

Estimation of population parameters using methods of moments and maximum likelihood procedures; properties of estimators; confidence intervals for population parameters.

Suggested Readings:

1. Jay L. Devore, *Probability and Statistics for Engineers*, Cengage Learning, 2010.
2. John E. Freund, *Mathematical Statistics*, Prentice Hall, 1992.
3. Richard J. Larsen and Morris L. Marx, *An Introduction to Mathematical Statistics II*

BA ECONOMICS(Hons.)

SEMESTER III

Course Code: BEH 304 (A) Legal Framework of Banking and Insurance in India

Credits 5

L.T.P

4.1.0

Course Outcomes:

After completing this course the students will be able to:

1. Learn comprehensive functioning of banks and insurance sector.
2. Understand all types of banking retail, investment banking, corporate, development banks, global and central banking.
3. Apply legal framework and procedure governing banking and insurance instruments.
4. Analyze current events concerned with banking and recent development in insurance sector.
5. Evaluate the potential importance of legal framework of banking and insurance in India.
6. Create skills to become industry-ready entry level professionals for banking and insurance sector.

UNIT 1. Introduction to banking: Historical perspective; emergence and importance of commercial banking; an overview of development in banking since independence. Reserve Bank of India and its control on commercial banks; impact of RBI's policies on operations of commercial banks.

UNIT 2. Legal framework and Procedure Governing Banking Instruments: corporate banking, loan documentation; Cheque, bill of exchange, letter of credit, etc. Management of assets; liabilities in commercial bank; Lending policies: Risk and profitability planning. Law relating to Banking Regulation; bankers' book evidence; recovery of debts due to banks and financial institutions.

UNIT 3. Role of Development Banks in Economic Development: Banking sector reforms in India - an overview; cooperative banks; nationalised banks; private sector banks; international banking foreign banks, off-shore banking; recent developments in banking sector; NABARD, NHB.

UNIT 4. Insurance

Meaning, nature and significance; essential requirements and principles of risk insurance; re-insurance; nationalisation of insurance business in India; Insurance Regulatory Development Authority Act. Life insurance; law relating to Life Insurance; general principles of life insurance. Insurance Corporation - role and functions; Types, nature and laws relating to Insurance; General insurance, Accident and motor insurance, Deposit and credit insurance, fire insurance, marine insurance.

UNIT 5.

Legal and Regulatory Developments: Recent Developments in the insurance sector. Insurance regulatory agencies; recent developments in the global insurance industry.

Suggested Readings:

1. F. S. Mishkin and S. G. Eakins, *Financial Markets and Institutions*, Pearson Education, 6th edition, 2009.
2. F. J. Fabozzi, F. Modigliani, F. J. Jones, M. G. Ferri, *Foundations of Financial Markets and Institutions*, Pearson Education, 3rd edition, 2009.
3. L. M. Bhole and J. Mahukud, *Financial Institutions and Markets*, Tata McGraw Hill, 5th edition, 2011.
4. M. Y. Khan, *Indian Financial System*, Tata McGraw Hill, 7th edition, 2011.
5. Various latest issues of R.B.I. Bulletins, Annual Reports, Reports on Currency and Finance and Reports of the Working Group, IMF Staff Papers.

BA ECONOMICS(Hons.)

SEMESTER III

Course Code: BEH 304(B) Economics of Risk and Uncertainty (Generic Elective)

Credits 5

L.T.P

4.1.0

Course Outcomes:

After completing this course the students will be able to:

1. Learn and identify risk and uncertainty concepts.
2. Understand the basic concept and theories of risk analysis and uncertainty.
3. Apply acquired knowledge in decision making under risk and uncertainty.
4. Analyze the nature of risk and provide measures for risk aversion.
5. Determine the decision making environment under risk analysis and uncertainty.
6. Construct risk management framework for adequate security arrangements.

Unit -1 Risk and Uncertainty

Introduction and definition of risk and uncertainty; classification of risk; sources of risk - external and internal.

General equilibrium under certainty, etc.

Unit -2 Managerial Decision-Making under Risk and Uncertainty

Concept of decision making environment; Decision making environment under uncertainty; Decision making environment under risk analysis; Decision making environment under Certainty Equivalents.

Unit -3 Expected Utility Theory and Risk Aversion

Applications of expected utility theory: portfolio choice, measures of the risk aversion ;critiques of expected utility theory; Decision tree

Unit-4Market Mechanism under Uncertainty and Risk

Arrow-Debreu securities. Asset Pricing. Complete vs. Incomplete markets.

Asymmetric Information; Monopolistic Screening; Adverse selection, Hidden Information after contracting; Incomplete Contracts. Auctions.

Unit -5 Risk Management

Nature, risk analysis, planning, control and transfer of risk; administration of company's properties and provision of adequate security arrangements.

Suggested Readings:

1. The Analytics of Uncertainty and Information, by Jack Hirshleifer and John G. Riley.
2. Making Decisions, 2nd Edition, D.V. Lindley, John Wiley& Sons.
3. Akerlof, G. (1970). "The Market for 'Lemons': Quality Uncertainty and the Market Mechanism," The Quarterly Journal of Economics, Vol. 84, No. 3., pp. 488-500
4. Rothschild, M. and J. Stiglitz (1976). "Equilibrium in Competitive Insurance Markets: an Essay on the Economics of Imperfect Information," The Quarterly Journal of Economics, Vol. 90, No. 4. pp. 629-649.

BA ECONOMICS(Hons.)

SEMESTER III

Course Code BEH 305 Soft Skills –I (SEC)

**Credits 3
L.T.P
3.0.0**

Course Outcomes:

After completing this course the students will be able to:

1. Recognize the benefits of emotional Intelligence.
2. Understand how to use emotion to facilitate thought and behavior and expand their knowledge of emotional patterns within them and others.
3. Apply negotiation skills in our work groups and teams in professional field.
4. To analyze and overcome their emotions and develop confidence.
5. Demonstrate the skills needed to participate in a conversation that builds knowledge collaboratively: listening carefully and respectfully to others' viewpoints
6. Create their own ideas and questions and situating their own ideas in relation to other voices and ideas.

UNIT 1. Interpersonal Skills- Importance of Interpersonal Skills, positive relationship, positive attitude, Empathise: comprehend other opinions points of views, and face them with understanding, Mutual understanding, Trust, Emotional Bonding.

UNIT 2 Speaking and Conversation Skills-Thought organization and Extempore, JAM, Turn-court, Declamation Speech, Public Speaking, Stress and intonation

UNIT 3. Emotional Intelligence- Coping with emotions –Emotional – Rational balance

UNIT 4. Negotiation Skills Etymology, Approaches to negotiation, Improving Negotiation Skills- Rules for Master Negotiators, Fundamental Elements of the Negotiation Process, Key elements of Negotiation, Attitude, and Compromise is omnipresent. Communication Skills, Planning---- Evaluation--- Closure.

UNIT 5. GD Skills. Interview Skills, Handling Situations.

Suggested Readings:

1. Advanced Technical Communication by Malti Agarwal
2. Effective Communication & soft skills: Strategies for success by NitinBhatnagar&MamataBhatnagar
3. Spoken English for India by R.K Bansal & J.B Harrison-Orient
4. Question Bank For internal use
5. Developing Soft Skills by Robert M.Sherfield, Rhonda J. Montgomery, Patricia G. Moody
6. The Ace of soft skills: attitude, communication and etiquette for success by Gopaldaswamy Ramesh and Mahadevan Ramesh

**BA ECONOMICS(Hons.)
SEMESTER III**

Course Code: BEH 306

Career Skills –II (SEC)

**Credits 3
L.T.P
3.0.0**

Course Outcomes:

After completing this course the students will be able to:

1. Recognize the logical reasoning and fallacies that can arise through the misuse of logic.
2. Understand the use of series of techniques necessary to analyze, contrast, compare, organize and execute logical reasoning problems.
3. Apply the linguistic and reasoning skills in competitive examinations.
4. Analyze the problem to solve the problem and infer solution from the given directions.
5. To examine the current affairs of India and the world.
6. Construct an aptitude for general awareness and current affairs.

UNIT 1:

Introduction to reasoning, basic concepts and practice of deterministic and non-deterministic arrangement based questions (linear, vertical, circular and rectangular).

Concepts and understanding of deterministic and non-deterministic tabular or grid based questions including understanding of variables and their entries in the solution table. Practice of tabular or grid based question sets.

UNIT 2:

Basic concept and understanding of directions including the orientation of the 4 basic directions of east, west, north and south. Understanding turns of different degrees towards right, left, clockwise and anticlockwise.

Basic concept of coding-decoding using alphabets, digits, words and their combinations. Understanding and practice of different questions in coding decoding.

Basic concept of series completion using numbers, alphabets, and their combinations thereof. Understanding of different types of series (based on differences, based on products, based on exponentials). Practice of different questions in coding decoding.

UNIT 3:

Understanding the concepts of Syllogism using venn diagram, types of problems in syllogism (2 statements, 3 statements and 6 statement problems).

Understanding the concept of set theory and its application in reasoning based questions.

UNIT 4:

Introduction to Data Interpretation (DI), understanding different methods of data representation including tabular, bar graph, pie chart, line graph and caselet. Techniques of quick arithmetic calculations, concepts of percentage as applicable in DI, growth and growth rate and practice of various DI sets.

Introduction to Data Sufficiency (DS) concepts, understanding the questions structure, approach and practice of DS questions.

UNIT 5. General awareness& Current affairs

News related to Reserve Bank of India, Banking Awareness.

Suggested Readings:

1. R.S. Aggarwal, S.Chand, 'A Modern Approach to Verbal and Non-Verbal Reasoning', Revised Edition, 2010
2. R S Aggarwal, S.Chand, 'A Modern Approach to Logical Reasoning', Revised Edition, 2006
3. AbhijitGuha, McGraw Hill, 'Quantitative Aptitude for All Competitive Examinations', 6th Edition, 2016
4. Disha Experts, Disha Publications, 'The Mega Year Book 2017', II Edition, 2016

**BA ECONOMICS (Hons.)
SEMESTER IV**

Course Code:BEH 401 Macroeconomics -II (Core Course)

**Credits 5
L.T.P
4.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Define how macroeconomic policy shifts and changes in one sector impact the rest of the economy.
2. Understand the determinants of the relative strengths of fiscal and monetary policy for increasing GDP
3. Apply basic Macroeconomic theory to analyze macroeconomic policies.
4. Analyze the effects of short- run and long run price changes on full employment and output.
5. Assess and relate the basic Macroeconomic theory and principles to current macroeconomic issues.
6. Construct a perspective on functioning of the economy.

UNIT 1 Economic Growth

Meaning, definition; Harrod-Domar model; Solow model; Golden rule; technological progress and elements of endogenous growth.

UNIT-2-Schools of Macroeconomic Thoughts

Classicals; Keynesians, Aggregate Demand and Aggregate Supply Curves. Derivation of aggregate demand, and aggregate and supply curves; interaction of aggregate demand and supply; New-Classicals and New-Keynesians, Adaptive and Rational Expectation, Policy ineffectiveness proposition.

UNIT 3- Macroeconomic Issues-

Consumption: Keynesian consumption function; Life-cycle and Permanent Income hypotheses; rational expectations and Random-walk of consumption expenditure, Investment: determinants of business Fixed investment; Residential investment and Inventory investment, Demand for money.

UNIT-4.Open Economy Models

Short-run Open Economy models; Mundell-Fleming model; Exchange rate determination; Purchasing Power Parity; Asset Market approach; Dornbusch's overshooting model.

UNIT 5.Monetary policy

Objectives and targets; rules versus discretion: time consistency; Monetary Approach to Balance of Payments; International Financial Markets.

Suggested Readings:

1. Dornbusch, Fischer and Startz, Macroeconomics, McGraw Hill, 11th edition, 2010.
2. N. Gregory Mankiw. Macroeconomics, Worth Publishers, 7th edition, 2010.
3. Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 5th edition, 2009.
4. Steven M. Sheffrin, Rational Expectations, Cambridge University Press, 2nd edition, 1996.
5. Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc., 7th edition, 2011.
6. Errol D'Souza, Macroeconomics, Pearson Education, 2009
7. M L Jhingan, Macro Economic Theory, 13th Edition, 2016

**BA ECONOMICS (Hons.)
SEMESTER IV**

Course Code: BEH 402 Business Economics (Core Course)

**Credits 5
L.T.P
4.1.0**

Course outcomes

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

1. To familiarize the prospective students with elementary Principles of Economics and Business Economics.
2. To acquaint the students with tools and techniques that are useful in their profession in Business Decision Making which will enhance their employability.
3. To apply business analysis to the “firm” under different market condition.
4. To apply economic models to examine current economic scenario and evaluate policy options for addressing economic issues.

5. To gain understanding of some Macroeconomic concepts to improve their ability to understand the business climate.
6. To prepare and analyse various business tools like balance sheet, cost benefit analysis and rate of returns at an elementary level.

Unit I

Introduction

Business Economics- Meaning, Nature, Scope and significance. Business Decision types , Tools and Techniques for Business Decisions, Business and Economic Forecasting

Unit II

Price Mechanism

Price Determination in Various Market Forms in short run and in long run, Pricing Method and Approaches product line pricing Differential Pricing, and Price Forecasting: Advertising -measuring the economic effects of advertizing

Unit III

Corporate Strategy and Long-Range Planning

Economies and Diseconomies of scale, Location of Firms and Physical Distribution Technological Progress in a Global Economy, Wages and Collective Bargaining Globalizations of business and foreign exchange- MNC

Unit IV

Profit and Capital Management

Nature and Measurement of profit, Profit policies and Technique of Profit Planning like Break-Even Analysis ,Cost of capital, Rate of Return and Selection of Projects.

Capital Budgeting-NPV, IRR, Profitability Index, ARR, Payback Period

Unit V

Business and Society

Business Ethics; Individual versus Societal interests; consumer protection; discrimination and diversity; the natural environment; public policy, and government regulation of business.

Suggested Readings:

1. N. Gregory Mankiw (2005)-Vth Edition, Macroeconomics, Worth Publishers
2. Timothy Taylor , Principles of Economics, 3rd edition, TEXTBOOK MEDIA.
3. 17. Varshney and Maheshwari. Managerial Economics. Sultan Chand. New Delhi.

BA ECONOMICS (Hons.) SEMESTER IV

Course Code: BEH 403 Fundamentals of Econometrics (Core Course)

Credits 5

L.T.P

4.1.0

Course Outcomes:

After completing this course the students will be able to:

1. Recognize the basic principles of econometric analysis.
2. Understand both the fundamental techniques and wide array of applications involving linear regression estimation.

3. Apply the theoretical background for the standard methods used in empirical analyses, like the statistical testing of hypothesis.
4. Analyze the single equation econometrics model.
5. Estimate parameters in regression equations and use regression model for predictions.
6. Construct econometric models for analyzing economic data and perform statistical tests for higher studies.

UNIT-I. Econometrics and Statistical Concepts-Introduction of Econometrics; Statistical Concepts:estimation of parameters;properties of estimators; testing of hypotheses: defining statistical hypotheses; distributions of test statistics; testing hypotheses related to population parameters; Type I and Type II errors; power of a test; tests for comparing parameters from two samples; chi-square test and F test.

UNIT- 2. Simple Linear Regression Model: Two Variable Case-Estimation of model by method of ordinary least squares; properties of estimators; goodness of fit; Gauss-Markov theorem.

UNIT -3. Multiple Linear Regression Model-Estimation of parameters; properties of ordinary least square estimators; goodness of fit – R^2 and adjusted R^2 ; partial regression coefficients; testing hypotheses; functional forms of regression models.

UNIT -4. Violations of Classical Assumptions:Consequences and Detection-Multicollinearity: introduction and measures; heteroscedasticity: introduction and detection of heteroscedasticity.

UNIT-5. Specification Analysis-Omission of a relevant variable; inclusion of irrelevant variable; tests of specification errors.

Suggested Readings:

1. Jay L. Devore, *Probability and Statistics for Engineers*, Cengage Learning, 2010.

2. John E. Freund, *Mathematical Statistics*, Prentice Hall, 1992.
3. Richard J. Larsen and Morris L. Marx, *An Introduction to Mathematical Statistics and its Applications*, Prentice Hall, 2011.
4. D. N. Gujarati and D.C. Porter, *Essentials of Econometrics*, McGraw Hill, 4th edition, International Edition, 2009.
5. Christopher Dougherty, *Introduction to Econometrics*, Oxford University Press, 3rd edition, Indian edition, 2007.
6. Jan Kmenta, *Elements of Econometrics*, Indian Reprint, Khosla Publishing House, 2nd edition, 2008.

**BA ECONOMICS (Hons.)
SEMESTER IV**

Course Code: BEH 404 (A) Environmental Economics (Generic Elective)

**Credits 5
L.T.P
4.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Recognize basic economic models pertaining to the use of depletable resources.
2. Understand economic and environmental benefits of solid-waste disposal and recycling of waste for India.
3. Apply basic principles of economics to environmental issues.
4. Analyze the economics of climate change.
5. Determine cost-benefit analysis of environmental policies and regulations.
6. Design and implement environmental policies on sustainable development.

UNIT 1.

Key environmental issues and problems, economic way of thinking about these problems, basic concepts from economics; Pareto optimality and market failure in the presence of externalities; property rights and other approaches.

UNIT 2. The Design and Implementation of Environmental- Policy-Overview, Pigouvian taxes and effluent fees, tradable permits,

UNIT 3. International experience; trans-boundary environmental problems; economics of climate change.

UNIT 4.

Environmental Valuation Methods and Applications-Valuation of non-market goods and services--theory and practice; measurement methods; cost-benefit analysis of environmental policies and regulations.

UNIT 5.

Implementation of environmental policies in India: Sustainable Development-Concepts; measurement; perspectives from Indian experience

Suggested Readings:

1. Roger Perman, Yue Ma, Michael Common, David Maddison and James McGilvray, "*Natural Resource and Environmental Economics*", Pearson Education/AddisonWesley, 4th edition, 2011.
2. Charles Kolstad, "*Intermediate Environmental Economics*", Oxford University Press, 2nd edition, 2010.

3. Robert N. Stavins (ed.), *“Economics of the Environment: Selected Readings”*, W.W. Norton, 6th edition, 2012.
4. Robert Solow , “An Almost Practical Step toward Sustainability,” Resources for the Future 40th anniversary lecture,1992.
5. Kenneth Arrow et al. , “Are We Consuming Too Much?” *Journal of Economic Perspectives*, 18(3): 147-172, 2004.
6. IPCC (Intergovernmental Panel on Climate Change), Fifth Assessment Report.

**BA ECONOMICS (Hons.)
SEMESTER IV**

Course Code: BEH 404(B) Economics of Human Resources (Generic Elective)

**Credits 5
L.T.P
4.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Define the importance of human resources and their effective utilization in economic development.
2. Understanding of the emerging trends in HRM in the recent era.
3. Apply the models that are used to analyze the issues in labour markets.
4. Analyze policy questions related to labour markets and tools used in managing employees effectively. Demonstrate a basic understanding of investment in human capital.
5. Determine how unemployment and wage and productivity differences can affect labor market outcomes .
6. Generate critical thinking skills and knowledge to learn a variety of important public policies that affect labor market operations.

Unit 1 Demand and Supply of Labour

Short run and long run demand for labour; Firm's demand and Market demand for labour; Competitive and non-competitive product markets and changing demand for labour. Individuals decision to work; Market supply of labour; Retirement and voluntary retirement schemes.

Unit 2 Labour Market Equilibrium

Wage determination; Changing market conditions and wages; Income taxes and wage Wage regulations and wage. Monopsony; Internal job markets and different considerations behind wage setting.

Unit 3 Investment in Human Capital

Individual's choice of educational attainment; Costs and benefits of human capital investments; Who should invest in human capital – the individual or the firm?

Unit 4 Discrimination in the Labour Market

Why some workers are discriminated against Prejudice and lack of information as sources of discrimination; Skill differences between social groups as a result of discrimination; Laws against discrimination – Employer reaction to such laws. How useful are these laws in combating this social evil?

Unit 5 Labour Unions, Collective Action and Labour Mobility

Individuals' decision to join the union; Product market structures and bargaining powers of unions. Economics of Strikes; Is bargaining by unions good for the economy?

Why workers migrate? When to lay off workers? When to expect that the employee will quit?

How to design incentives for retaining critical worker?

Suggested Readings:

1. Harzing, A-W.K. and Pennington, A. (2011). International human resource management. New Delhi: Sage publications.
2. Briscoe, D. R., Schuler, R. S. & Claus, L. (2009). International human resource management: Policies and practices for multinational enterprises (3rd Ed). New York: Routledge.
3. George J. Borjas, Labor Economics, 3rd Edition, Irwin McGraw-Hill.
4. Ehrenberg, R. G. and R. S. Smith, Modern Labor Economics, 8th Edition, Addison-Wesley
5. Barbezat, Debra A. and Hughes, James W., (1990) "Sex Discrimination in Labor Markets: The Role of Statistical Evidence: Comment," The American Economic Review, vol. 80, no. 1, pp. 277-286.
6. Couch, Kenneth and Daly Mary C., (2002), "Black-White Wage Inequality in the 1990s: A Decade of Progress," Economic Inquiry, vol. 40, no. 1, pp. 31-41.
7. Fortin, Nicole M. and Lemieux, Thomas, (1997) "Institutional Changes and Rising Wage Inequality: Is There a Linkage?" Journal of Economic Perspectives, vol. 11, no. 2, pp. 75-96.
8. Reed, Deborah, (2001), "Immigration and Males' Earning Inequality in the Regions of the United States," Demography, vol. 38, no. 3, pp. 363-373.

BA ECONOMICS (Hons.)

SEMESTER IV

Course Code: BEH 405 Gender Sensitization (Value Added)

**Credits 2
L.T.P
2.0.0**

Course Outcomes:

After completing this course the students will be able to:

1. Describe the social construction of sex and gender.
2. Comprehend the notion of gender within the domain of family and community.
3. Utilize the understanding of sexuality to interpret gender laws and rights.
4. Examine the dynamics of gender through the intersections of caste, class, region and religion.

5. Determine the effectiveness of current gender laws that have direct bearing on gender relations.
6. Generate a gendered perspective in work and life and sensitize themselves towards the issues related to gender and equality.

Unit I

Sex, Gender and Sexuality

Introduction to debates on the social construction of sex and gender
Cultural construction of masculinity and femininity
Understanding sexual preference as a right

Unit II

Gender, Family, Community and the State

Marriage, Domestic violence and related laws

Unit III

Gender Rights and the Law

Right to property, Personal laws, Violence against women, Sexual harassment, Rape

Unit IV

Understanding Intersections of Gender: Caste, Class, Region, Religion and Disability

Unit V

Contemporary Gender Issues

SUGGESTED READINGS

The course will be based on exercises to be done in groups.

1. Sex and gender

1.1 Geetha, V. 2002. *Gender*. Calcutta: Stree

1.2. Menon, Nivedita. 2012. *Seeing like a Feminist*. New Delhi: Zubaan/Penguin Books

1.3. Bhasin, Kamala. *Patriarchy*. New Delhi: Kali for Women

1.4. Murty, Laxmi and Rajshri Dasgupta. 2012. *'Our Pictures, Our Words- A Visual Journey Through The Women's Movement'*. New Delhi: Zubaan

1.5. **Films:** *Being Male Being Koti* Dir: Mahuya Bandyopadhyay *Many People Many Desires*

Dir: T. Jayashree; *Boys Don't Cry* Dir: Kimberley Peirce

Suggested Assignments:

a) Discussion around any two of the above-mentioned films. Students will be asked to write a short essay on the pressures they feel of the experience in performing masculinity or femininity.

b) Presentations and discussions based around the essays.

c) Role Play: Gender and its performance in everyday life. Students to form smaller groups and present skits to address this issue creatively. This will be followed by discussions.

2. Gender, Family, Community and the State

2.1. Shah, Chayanika et al. 2005. Marriage, Family and Community: A Feminist Dialogue. *Economic and Political Weekly February 19: 709 -722*

2.2. Films: *Izzatnagriki Asabhya Betiyan* Dir: Nakul Singh Sawhney

Suggested Assignments/Exercise:

a) Debate or discussion on „Is the family the site of love and care“ or “Is the family democratic?”

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b) Look at NSS/NFHS/Census Data and write notes on the themes of how you can interpret the data

c) Writing exercise: Does a gendered division of labour in the household deny women equal opportunities?

d) Visit to a women’s shelter/Nari Niketan followed by short essays on the experience and discussions based on the same.

e) Visit to a family court followed by discussions.

f) Role play: On how to address issues of gender discrimination within the family.

3. Gender Rights and the Law

3.1. For all the laws relating to women please refer to the following resource:

<http://ncw.nic.in/frmLLawsRelatedtoWomen.aspx>

3.2. Films: *Gulabi Gang* Dir: Nishtha Jain; *North Country* Dir: Niki Caro; *The Accused* Dir: Jonathan Kaplan

Suggested Assignments/Exercise:

a) Debate on women’s equal right to natal property.

b) Discussion on what consent means. Students to be presented with different scenarios to enable them to problematize the notion of consent.

- c) Writing exercise: Take up any one law relating to women and critically examine one or two judgments pertaining to that law. This will be followed by class presentations.
- d) Reading of the Delhi University Ordinance against Sexual Harassment and discussions around it.
- e) Student projects (in smaller groups) on developing IEC material (Information, Education, Communication) on the Delhi University Ordinance against Sexual Harassment for students.
- f) Discussion on section 377 of the Indian Penal Code.
- g) Discussions on these laws with practicing lawyers.

4. Understanding Intersections of Gender, Caste, Class, Region, Religion and Disability.

4.1. Tharu, S. and Niranjana, T. 1999. "Problems for contemporary theory of gender" in Nivedita Menon, *Gender and Politics in India*. New Delhi: Oxford University Press.

4.2. Ghai, Anita. (2003). *(Dis) Embodied Form: Issues of Disabled Women*. New Delhi. Har-Anand Publications. (Selected chapters)

BA ECONOMICS (Hons.)

SEMESTER V

Course Code: BEH 501 Indian Economy-I (Core Course)

**Credits 5
L.T.P
4.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Learn the application of economic theory in the context of India.
2. Demonstrate the classification of the Indian economy into different components or sectors.
3. Carry out the differences between different sectors of our economy.
4. Analyze the changes which have taken place in the Indian economic trend since the olden days.
5. Assess the progress and changing nature of agricultural sector and its contribution to the economy as a whole.
6. Construct ideas of the basic characteristics of Indian economy and its potential on natural resources.

UNIT 1. Economic Development since Independence- Major features of Indian economy, growth and development & overview of planned economic development of India.

UNIT 2. Constraints in economic development, institutions and policy framework; an assessment.

UNIT 3. Population and Human Development-Demographic trends and issues; education; health and malnutrition.

UNIT 4. Growth and Distribution-Trends and policies in poverty; inequality and unemployment.

UNIT 5. International Comparisons with (China, Japan, Brazil , South Africa, Russia) GDP.

Suggested Readings:

1. Jean Dreze and AmartyaSen, Jean Dreze and AmartyaSen, 2013. *An Uncertain Glory: India and its Contradictions*, Princeton University Press.
2. PulapreBalakrishnan, 2007, The Recovery of India: Economic Growth in the Nehru Era, *Economic and Political Weekly*, November.

3. Rakesh Mohan, 2008, —Growth Record of Indian Economy: 1950-2008. A Story of Sustained Savings and Investment, *Economic and Political Weekly*, May.
4. S.L. Shetty, 2007, —India's Savings Performance since the Advent of Planning, in K.L. Krishna and A. Vaidyanathan, editors, *Institutions and Markets in India's Development*.
5. Himanshu, 2010, Towards New Poverty Lines for India, *Economic and Political Weekly*, January.
6. T. Dyson, 2008, —India's Demographic Transition and its Consequences for Development in Uma Kapila, editor, *Indian Economy Since Independence*, 19th edition, Academic Foundation.
7. Kaushik Basu, 2009, —China and India: Idiosyncratic Paths to High Growth, *Economic and Political Weekly*, September.

**BA ECONOMICS (Hons.)
SEMESTER V**

Course Code: BEH 502 Development Economics-I (Core Course)

**Credits 5
L.T.P
4.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Define the conceptions of development in the economy.
2. Understand what development is, and how to measure it.
3. Utilize the growth models to solve inequality and suggest poverty remedial measure.
4. Examine how economic growth is defined and measure it with various measures.
5. Evaluate how poverty is defined and measure it with various measures.
6. Generate the interaction of economic growth, and poverty and inequality.

UNIT 1. Conceptions of Development-Alternative measures of development; documenting the international variation in these measures; comparing development trajectories across nations and within them.

UNIT 2. Growth Models –Determinants of Growth, The W. W. Rostow's & Ragner Nurkse model of growth.

UNIT 3. Poverty and Inequality- Definitions; Measures and Mechanisms Inequality axioms; comparison of commonly used inequality measures; connections between inequality and development; poverty measurement; characteristics of the poor; mechanisms that generate poverty traps and path dependence of growth processes.

UNIT 4. Political Institutions and the Functioning of the State- The determinants of democracy; alternative institutional trajectories and their relationship with economic performance; within-country

UNIT 5. Differences in the functioning of state institutions- state ownership and regulation; government failures and corruption.

Suggested Readings:

1. Debraj Ray, *Development Economics*, Oxford University Press, 2009.
2. ParthaDasgupta, *Economics, A Very Short Introduction*, Oxford University Press, 2007.
3. Abhijit Banerjee, Roland Benabou and DilipMookerjee, *Understanding Poverty*, Oxford University Press, 2006.
4. KaushikBasu, *The Oxford Companion to Economics in India*, OUP, 2007.
5. AmartyaSen, *Development as Freedom*, OUP, 2000.
6. Robert Putnam, *Making Democracy Work: Civic Traditions in Modern Italy*, Princeton University Press, 1994

BA ECONOMICS (Hons.)

SEMESTER V

Course Code: BEH 503 Political Economy (DSE)

**Credits 5
L.T.P**

Course Outcomes:**After completing this course the students will be able to:**

1. Learn the changing dynamics of the capitalist production, organizational form and labour process.
2. Understand the ethical and philosophical dimensions of public policy and how they interact with economic and political considerations.
3. Apply the knowledge of global political economy to solve economic issues.
4. Analyze the effect of globalization on development, growth and exclusion.
5. Evaluate and understand the process of economic policy making.
6. Construct the employing perspectives from alternative schools of thought to solve financial crisis in the economy.

UNIT 1. Introduction and Historical Overview-Perspective on political economy with a historical overview: capitalist development in the pre-second world war period, the golden age and later.

UNIT 2. Changing Dynamics of Capitalist Production, Organizational Form and Labour Process-Fordist and post-Fordist production; changing dynamics of organisation of production, markets and labour process; the changing nature of job security and labour rights.

UNIT 3. The State in the Era of Globalization: Welfare, Development and Autonomy-Globalization and the limits of the welfare state, development and state autonomy.

UNIT 4. The Changing Role of Finance-The changing role of finance in capital accumulation and corporate structure; finance and globalization –financial liberalization and financial crisis.

UNIT 5. The Social Dimension- Globalization and uneven development – growth, inequality and exclusion.

Suggested Readings:

1. Michel Beaud, *A History of Capitalism, 1500-2000*, trans. by Tom Dickman and Anny Lefebvre, New York: Monthly Review Press, 2001.
2. Ash Amin (ed.), *Post-Fordism: A Reader*, Blackwell, 1994.
3. Fran Tonkiss, *Contemporary Economic Sociology: Globalisation, Production, Inequality*, Chapter 4 (Fordism and After), Routledge India 2008 reprint, 2006. 30
4. S. Hymer, "The Multinational Corporation and the Law of Uneven Development", in H. Radice (ed.) *International Firms and Modern Imperialism*, Penguin Books, 1975.
5. David Harvey, *A Brief History of Neoliberalism*, OUP, 2005.
6. Andrew Glyn, —Challenges to Capital, in *Capitalism Unleashed: Finance, Globalization and Welfare*, Oxford: Oxford University Press, (Ch. One, pp. 1-24), 2006.
7. G Dumenil and D Levy, *The Crisis of Neoliberalism*, Harvard University Press, 2011.

**BA ECONOMICS (Hons.)
SEMESTER V**

Course Code: BEH 503 Money and Financial Market (DSE)

Credits 5

L.T.P

Course Outcomes:**After completing this course the students will be able to:**

1. Learn the organization, structure and role of financial markets and institutions.
2. Understand the features and functioning of Indian money market.
3. Apply the theory and functioning of the monetary and financial sectors of the economy.
4. Examine the financial and money market with special reference to India.
5. Determine the relationship between money market and capital market.
6. Construct and develop analytical skills to explain the conditions of financial markets and its impact in the economy.

Unit 1 Money and its Concepts

Definition, Functions of Money, Types of Money, Value of Money, Inflation and measures to control it. Theories of Money

Unit 2 Financial Market

Role and Importance of Financial Markets, Types of Financial Markets, Financial Markets vs. Capital Markets vs. Stock Markets, Linkages Between Economy and Financial Markets, Players in Financial Markets, Regulator of Financial Markets (RBI and SEBI)

Unit 3 Capital Market

Primary Market; procedure for issuing equity and debentures, Free pricing regime, Secondary Market: organization, management and membership of stock exchanges, listing, trading and settlement systems; Overview of Debt Market in India – Interlink between Money Market and Capital Market.

Unit 4 Capital Market Instruments

Equities, Debentures and Bonds; New Instruments: Floating Rate Bonds, Zero interest bonds, Deep Discount bonds, Auction rated debentures, securitized papers, collateralized debt obligations, Inverse float bonds.

Unit 5 Markets for Derivatives

Futures, Options, and Other Derivatives: Types, Uses and Pricing of Derivatives; Derivatives trading in India.

Suggested Readings:

1. F. S. Mishkin and S. G. Eakins, Financial Markets and Institutions, Pearson Education, 6th edition, 2009.
2. F. J. Fabozzi, F. Modigliani, F. J. Jones, M. G. Ferri, Foundations of Financial Markets and Institutions, Pearson Education, 3rd edition, 2009.
3. M. R. Baye and D. W. Jansen, Money, Banking and Financial Markets, AITBS, 1996.
4. Rakesh Mohan, Growth with Financial Stability- Central Banking in an Emerging Market, Oxford University Press, 2011.
5. L. M. Bhole and J. Mahukud, Financial Institutions and Markets, Tata McGraw Hill, 5th edition, 2011.
6. M. Y. Khan, Indian Financial System, Tata McGraw Hill, 7th edition, 2011
7. N. Jadhav, Monetary Policy, Financial Stability and Central Banking in India, Macmillan, 2006.
8. R.B.I. – Report of the Working Group: Money Supply Analytics and Methodology of Compilation, 1998.
9. R.B.I. Bulletin, Annual Report and Report on Currency and Finance (latest).
10. Bhole, L.M: Financial Institutions and Markets, Tata McGraw Hill Publishing Company Ltd.
11. Gupta,S.K.,Aggarwal, N. and Gupta, N: Financial Institutions and Markets, Kalyani Publishers
12. Khan,M.Y: Financial Institutions and Markets, Tata McGraw Hill Publishing Company Ltd.

**BA ECONOMICS (Hons.)
SEMESTER V**

Course Code: BEH 504 Economics of Health & Education (DSE)

Credits 5
L.T.P
4.1.0

Course Outcomes:

After completing this course the students will be able to:

1. Define approaches to identify and value costs and outcomes to include in economic evaluation.
2. Understand the functioning and financing of health sectors in India.
3. Interpret and appropriately apply the key concepts of economics within the context of the health system.
4. Analyze and evaluate complex policy and organizational challenges at both the micro level and at higher levels within health care systems.
5. Evaluate and identify the national education system policies to improve the performance of national education systems in India.
6. Generate the relative merits of equity considerations in setting priorities for a health system.

UNIT 1. Role of Health and Education in Human Development- Importance in poverty alleviation; health and education outcomes and their relationship with macroeconomic performance.

UNIT 2. Microeconomic Foundations of Health Economics-Demand for health; uncertainty and health insurance market; alternative insurance mechanisms. Market failure in Health Insurance.

UNIT 3. Rationale for public intervention; equity and inequality. Evaluation of Health Programs- Costing, cost effectiveness of health programs.

UNIT 4. Health Sector in India- Health outcomes; health systems; health financing.

UNIT 5. Education- Investment in Human Capital-Rate of return to education: private and social; quality of education; human capital; theories of discrimination; gender and caste discrimination in India.Education Sector in India- Literacy rates, school participation, school quality measures.

Suggested Readings:

1. William, Jack. Principles of Health Economics for Developing Countries, World Bank Institute Development Studies, 1999
2. World Development Report, Investing in Health, The World Bank, 1993
3. Ronald G., Ehrenberg and Robert S., Smith. Modern Labor Economics: Theory and Public Policy, 11Th edition, Addison Wesley

**BA ECONOMICS (Hons.)
SEMESTER V**

Course Code: BEH 504 Public Economics (DSE)

**Credits 5
L.T.P
4.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Describe government policy from the points of view of economic efficiency and equity.
2. Understand the component and functioning of fiscal federalism.
3. Make use of new ideas from other fields to improve the understanding of the policies.
4. Examine the nature of government intervention and its implications for allocation, distribution and stabilization.
5. Critically evaluate and analyze the issues in international taxation.
6. Construct analytical skills to understand the economic effects of taxation.

Unit 1

Public Economic Theory

Introduction: Fiscal functions: an overview. Public Goods: definition, models of efficient allocation; Theories of the public sector.

Unit 2

Indian Public Finance

Tax system: Structure and Reforms. Budget, deficit and public debt.

Unit 3

Taxation

Economic effects of taxation; Dead Weight Loss and distortion, efficiency and equity considerations, tax incidence, optimal taxation. Tax Evasion: The Extent of Evasion, Auditing and Punishment, Tax Compliance Game.

Unit 4

Issues in International Taxation

International Efficiency: efficient allocation, Markets and efficiency, taxation and efficiency. Capital and Corporations: Capital taxes, corporate taxation, Tariff Policy and Trade Agreements.

Unit 5:

Fiscal Federalism

Introduction; Arguments for multi-level government: Costs of Uniformity, Tiebout Hypothesis, Distributive Arguments. Optimal Structure: efficiency versus Stability. Accountability, Risk – Sharing. Evidence on Decentralization.

Suggested Readings:

1. J. Hindriks, G. Myles: Intermediate Public Economics, MIT Press, 2006.
2. H. Rosen, T. Gayer: Public Finance, 9th ed., McGraw-Hill/Irwin, 2009.
3. Joseph E. Stiglitz, Economics of the Public Sector, W.W. Norton & Company, 3rd edition, 2000.
4. R.A. Musgrave and P.B. Musgrave, Public Finance in Theory & Practice, McGraw Hill Publications, 5th edition, 1989.
5. John Cullis and Philip Jones, Public Finance and Public Choice, Oxford University Press, 1st edition, 1998.
6. Harvey Rosen, Public Finance, McGraw Hill Publications, 7th edition, 2005.
7. Mahesh Purohit, Value Added Tax: Experiences of India and Other Countries, 2007.
8. Kaushik Basu and A. Maertens (ed.), The New Oxford Companion to Economics in India, Oxford University Press, 2013.
9. M.M. Sury, Government Budgeting in India, 1990.
10. M. Govinda Rao, Changing Contours of Federal Fiscal Arrangements in India, Amaresh Bagchi (ed.), Readings in Public Finance, Oxford University Press, 2005.
11. Paul Samuelson, 1955, —Diagrammatic Exposition of a theory of Public Expenditure, Review of Economics and Statistics, Volume 37.
12. Shankar Acharya, 2005, —Thirty Years of Tax Reform in India, Economic and Political Weekly, May 14-20.
13. Rangarajan and D.K. Srivastava, 2005, —Fiscal Deficit and Government Debt: Implications for Growth and Stabilization”, Economic and Political Weekly, July 2-8.
14. M. Govinda Rao, 2011, —Goods and Services Tax: A Gorilla, Chimpanzee or a Genius like Primates?, Economic and Political Weekly, February 12-18.
15. Report of the 13th Finance Commission, 2010-15.
16. Economic Survey, Government of India (Latest).
17. State Finances: A Study of Budgets, Reserve Bank of India (Latest).

**BA ECONOMICS (Hons.)
SEMESTER V**

Course Code: BEH 505 Entrepreneurship Development (SEC)

**Credits 3
L.T.P
3.0.0**

Course outcomes:

After completing this course the students will be able to:

1. Describe the role, success and survival of an entrepreneur
2. Illustrate and internalize the process of founding a startup and introducing new products and service ideas.
3. Build new ventures either as venture capitalists, consultants to new firms or in new business development units of larger corporate.
4. Analyze the entrepreneurial environment impacted by the social, economic, and cultural conditions
5. Assess government policies that fund and manage entrepreneurship development programs mainly for creating jobs.
6. Design entrepreneurship development programs and harvest strategies as per the requirement of the program.

Unit I Early Career Dilemmas of an Entrepreneur

The Entrepreneur's Role, Task and Personality

A Typology of Entrepreneurs: Defining Survival and Success

Entrepreneurship as a Style of Management

The Entrepreneurial Venture and the Entrepreneurial Organization, Factors affecting entrepreneurship development

Role of Entrepreneurship in a developing economy

Unit II Choosing a Direction

Opportunity recognition and entry strategies: New product, Franchising, Partial Momentum, Sponsorship and Acquisition

The Strategic Window of Opportunity: Scanning, Positioning and Analyzing

Intellectual Property: Creation and Protection: Patents, Trademarks, Copyrights

Unit III Opening the Window: Gaining Commitment

Gathering the Resources you don't have

The Business Plan as an Entrepreneurial Tool

Financial Projections: how to do them the right way

Debt, Venture Capital and other forms of Financing, How venture capitalists (VCs) evaluate and structure deals, Angel Financing and alternative source of finance for Entrepreneurs.

Sources of External Support

Developing Entrepreneurial Marketing: Competencies, Networks and Frameworks

Unit IV Closing the Window: Sustaining Competitiveness

Maintaining Competitive Advantage

The Changing Role of the Entrepreneur: Mid-Career Dilemmas

Harvesting Strategies versus Go for Growth

Unit V Social, economic and cultural conditions (operating environment)

Ethical and Environmental challenges

Case Studies of successful entrepreneurs and entrepreneurial ventures.

Suggested Readings:

1. Entrepreneurship: A South Asian Perspective, Donald. F Kuratko& T.V Rao, Cengage Learning Publications, 2012
2. Family Business, Ernesto J. Poza, 3rd ed., 2010
3. Entrepreneurship and Small Business Management, C.B Gupta and S.S Khanka, Sultan Chand Publications, 2014
4. Entrepreneur Development, Taneja& Gupta, Galgotia Publishing Company, 2nd ed., 2012

**BA ECONOMICS (Hons.)
SEMESTER V**

Course Code: BEH 506 INTERNSHIP (SEC)

Credits 2

The main objective of internship practice is to incorporate and prepare the student to learn the practical aspects of economics and its real operability into public or private.

BA ECONOMICS (Hons.)

SEMESTER VI

Course Code: BEH 601

Indian Economy-II (Core Course)

Credits 5
L.T.P
4.1.0

Course outcomes:

After completing this course the students will be able to:

1. Recognize the importance of planning undertaken by the government of India.
2. Understand various aspects of India's economy.
3. Develop a perspective on different problems and approaches to economic planning and development in India.
4. Analyze the role of Indian economy in the global context, and how different factors have affected this process.
5. Assess knowledge on the various objectives, failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government.
6. Construct and develop analytical skills to examine current issues in service sector.

UNIT 1. Macroeconomic Policies and their Impact-Fiscal Policy; financial and monetary policies.

UNIT 2. Policies and Performance in Agriculture-Growth; productivity; agrarian structure and technology; agricultural pricing, procurement

UNIT 3. Capital formation; trade and investment policy.

UNIT 4. Policies and Performance in Industry-Growth; productivity; diversification; small scale industries; public sector; competition policy; foreign investment.

UNIT 5. - Trends and Performance in Service sector

Suggested Readings:

1. Shankar Acharya, 2010, —Macroeconomic Performance and Policies 2000-8, in Shankar Acharya and 2.
2. Rakesh Mohan, 2010, —India's Financial Sector and Monetary Policy Reforms in Shankar Acharya and
3. PulapreBalakrishnan, Ramesh Golait and Pankaj Kumar, 2008, —Agricultural Growth in India Since 1991, *RBI DEAP Study no. 27*.
4. B.N. Goldar and S.C. Aggarwal, 2005, —Trade Liberalisation and Price-Cost Margin in Indian Industries, *The Developing Economics*, September.
5. P. Goldberg, A. Khandelwal, N. Pavcnik and P. Topalova, 2009, —Trade Liberalisation and New Imported Inputs, *American Economic Review, Papers and Proceedings*, May.
6. KaushikBasu and A. Maertens, eds, 2013, *The New Oxford Companion to Economics in India*, Oxford University Press

BA ECONOMICS (Hons.)
SEMESTER VI

Course Code: BEH 602 Development Economics-II (Core Course)

Credits 5
L.T.P
4.1.0

Course Outcomes:

After completing this course the students will be able to:

1. Describe and analyze the key development economic theories affecting a number of contemporary development issues covering demography and development.
2. Understand the various aspects towards distribution and reforms pertaining to land ownership.
3. Develop the links between various development economic theories and approaches including land, labour, and credit market structures.
4. Critically analyze how the theory of development economics impacts upon practical implementation macro development policies in varying local and global contexts.
5. Evaluate initiatives that have been employed to address global issues.
6. Generate awareness about environment and sustainable development

UNIT 1. Demography and Development- Demographic concepts; birth and death rates, age structure, fertility and mortality; demographic transitions during the process of development; gender bias.

UNIT 2. Land, Labor and Credit Markets-The distribution of land ownership; land reform and its effects on productivity; land acquisition; nutrition and labor productivity; introduction to microfinance.

UNIT 3 Individuals, Communities and Collective Outcomes-Individual behavior in social environments, multiple social equilibria; governance.

UNIT4 Environment and Sustainable Development-Defining sustainability for renewable resources; environmental externalities and state regulation.

UNIT 5 The economics and politics of multilateral agreements; trade: financial instability in a globalized world, impact of globalization on economic development.

Suggested Readings:

1. Debraj Ray, *Development Economics*, Oxford University Press, 2009.
2. ParthaDasgupta, *Economics, A Very Short Introduction*, Oxford University Press, 2007.
3. Abhijit Banerjee, Roland Benabou and DilipMookerjee, *Understanding Poverty*, Oxford University Press, 2006.
4. Albert O. Hirschman, *Exit, Voice and Loyalty: Responses to Decline in Firms, Organizations and States*, Harvard University Press, 1970.
5. ElinorOstrom, *Governing the Commons: The Evolution of Institutions for Collective Action*, Cambridge University Press, 1990.

BA ECONOMICS (Hons.)

SEMESTER VI

Course Code: BEH 603 International Economics (DSE)

**Credits 5
L.T.P
4.1.0**

Course Outcomes:

After completing this course the students will be able to:

1. Define the basic difference between inter-regional and international trade, understand how international trade has helped countries to acquire goods at cheaper cost and explain it through the various international trade theories.
2. Understand the components of Balance of Payment and Balance of Trade and measures to correct imbalances in BOP.
3. Develop the knowledge of international trades and relations.
4. Analyze the effects of national economic policies and how emerging and developing countries grow.
5. Demonstrate the implications of theories of trade in the global environment.
6. Generate knowledge about the international monetary system and international institutions.

UNIT- I

Trade Theories and Commercial Policy:

International economics; Concept, An overview of world trade; Theories of absolute advantage, comparative advantage and opportunity cost; Heckscher-Ohlin theory of trade-its main features, new trade theories, assumptions and limitations.

UNIT- II

Balance of Trade and Balance of Payments and Exchange Rate:

Concepts and components of balance of trade and balance of payments; Equilibrium and disequilibrium in balance of payments: Various measures to correct deficit in the balance of payment. Meaning, concept of equilibrium exchange rate and determination: Fixed versus

flexible exchange rates: Managed floating exchange rate. Financial globalization and financial crises.

UNIT –III

International Monetary System and International Institutions: Brettonwood systems and its breakdown, International liquidity Special drawing rights, I.M.F.

UNIT –IV

Rationale of Protection: Tariff and non-tariff barriers to trade (Quota, voluntary export restraints, export subsidies, dumping and international cartel).

UNIT –V

Economic Co-operation: Forms of Economic Co-operation, Static and Dynamic Effects of Custom Union (Viner, Lipsey) and Free trade Area; WTO and India, Recent change in the direction and composition of India's foreign trade; Multi-National Corporation: Working and regulations of MNC's in India, Export Promotion and Import Substitution, and Recent import and export policies.

Suggested Readings:

1. Kulkarni, Kishore G., *Reading in International Economics*,
2. Tisdell, Glen, *Globalisation and World Economics Policies*,
3. Salvatore, D., *International Economics*
4. International Economics by Soderston, (1991)
5. Kindleberger, C.P. Krugman, Paul R. and Obstfeld, Maurice. *International Economics*, (8th Ed.) Pearson Education.
6. Globalizing Capital: A History of the International Monetary System, Barry Eichengreen, second edition (2008)

BA ECONOMICS (Hons.)

SEMESTER VI

Course Code: BEH 603

Industrial Economics (DSE)

Credits 5

L.T.P

4.1.0

Course Outcomes:

After completing this course the students will be able to:

1. Describe the scope and importance of Industrial Economics , business strategy, competition policy and regulation
2. Understand the interaction between firms and the compare different market structures as well as, compare the price and output implications.
3. Develop the analytical skills required for understanding and solving variety of economic problems in industries.
4. Examine the behavior of firms and nature of competition in a market economy.
5. Apply economic models of firm behavior in decision making.
6. Create knowledge and critical thinking which can be applied to the working of firms' strategic behavior.

Unit 1

Introduction to Industrial Economics, Scope and methods of Industrial Economics

Non-cooperative games for applied analysis

Size and structure of the firm, Agency theory, ownership and control

Unit 2

Static price competition in oligopoly models, Dynamic price competition

Entry deterrence and entry accommodation, Product differentiation

Economics of Non-Price of Decision Firm: Research and

Development and Innovation, R & D Expenditure Decision

Unit 3

Advertising, Monopoly and price discrimination, Vertical integration and vertical restraints
Competition and industrial policy

Unit 4

The determinants of market structure, The concept of demand and supply,
Elasticity of Demand and Supply. Competition and industrial policy, Regulation and natural
monopolies. Case-studies: Some case studies involving the learning of the course are required
to be discussed.

UNIT 5

Time value of money, simple interest vs. compound interest, Cash flow diagrams; Present
Worth Comparison, Annual & Future Worth Comparison; Long-Range and Short range
Budgeting; Criteria for Project Appraisal, Benefit-Cost Analysis;
Depreciation: Concepts and Techniques; Rate of Return.

Suggested Readings:

1. Indian Industrial Economy, Sivayya, K.V. 330 SIVI(MB286- DITU)
2. Symeonidis. George, Industrial Economics. University of London Study Guide (SG), 1999.
3. Church J., and R.Ware, Industrial Organization. A Strategic Approach. Irwin (CW), 2000.
4. Tirole, J. *The Theory of Industrial Organization*. (Cambridge, MA: MIT Press)
5. Church, J.R. and R. Ware *Industrial Organization: A Strategic Approach*. (Irwin McGraw-Hill)
6. Sutton, J. *Sunk Costs and Market Structure*. (Cambridge, MA: MIT Press)

BA ECONOMICS (Hons.)

SEMESTER VI

Course Code BEH 604- Dissertation (DSE)

Credits 6

Objective: The objective of the research work is to inculcate research aptitude in the student which will help them to learn the various tools used in data analysis and will provide them an insight about the data interpretation. The students undergoing the dissertation can write reports either based on empirical data, or a review based exploratory research. The referencing format that students should use should fall under the strict guidelines of APA.

**BA ECONOMICS (Hons.)
SEMESTER VI**

Course Code BEH 606 Career Skills- III (SEC)

**Credits 3
L.T.P
3.0.0**

Course Outcomes:

After completing this course the students will be able to:

1. Employ techniques of active, critical and informal reading for augmented learning and thinking.
2. Apprise students of the various institutions of the society. (Political, religious, technical, economic, cultural, educational etc.)
3. To make the students able to reason and solve the quantitative problems
4. Establish a relation between form and content for better intellectual capacity.
5. To hone the competitive examination skills

UNIT 1:

Concept of ratio proportion and its application. Concept, understanding and practice of mixtures and solutions including alligation and replacement of part of a solution.

UNIT 2:

Concepts of time, speed and distance, understanding the direct and inverse relations in the topic, average speed and its application. Understanding the concept and application of relative speed and practice of problems based on trains and boats and streams.

Concepts of time and work and its application based problems using the LCM method for individual efficiencies and practice of problems based on group efficiencies.

UNIT 3:

Concept, understanding and practice of questions based on permutation and combination, difference in the approach for different things and identical things.

Concept, understanding and practice of questions based on probability.

Understanding the concept of set theory, clocks, calendar, logarithms, mensuration, basic algebra and practice of various types of questions based on the applications.

UNIT 4:

Blood relation concepts including basic introduction, making a family tree, standard notations and names for gender and relations. Discussion of different types of questions asked in blood relations, their solutions and practice.

Concepts and practice of grouping/team formation or condition based questions including the understanding and application of different conditions used in grouping sets.

UNIT 5:

English Language: Reading Comprehension, Fill in the blanks using Phrasal Verbs, Conjunctions, and Prepositions. Homonyms, Idioms, One word substitution, Subject-Verb agreement.

Suggested Readings:

1. R.S. Aggarwal, S.Chand, 'A Modern Approach to Verbal and Non-Verbal Reasoning', Revised Edition, 2010
2. M.K. Pandey, BSC Publisher, 'Analytical Reasoning', 2009
3. AbhijitGuha, McGraw Hill, 'Quantitative Aptitude for All Competitive Examinations', 6th Edition, 2016
4. Disha Experts, Disha Publications, 'The Mega Year Book 2017', II Edition, 2016
5. General Knowledge books latest issues

