

**Course Structure & Syllabus of B.A. (Hons.)- Economics
Applicable for Batch: 2017-2020**

**DIT UNIVERSITY
Dehradun**



**Detailed Course Structure & Syllabus of
B.A. (Hons.)- Economics**

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Year: 1st

Semester: I

Course Category	Course Code	Course Title	L	T	P	Credit
UC	ECO106	Micro Economics 1 (Core)	4	1	0	4.5
UC	ECO107	Macro Economics1(Core)	4	1	0	4.5
UC	ECO146	Indian Economy 1 (Core)	4	1	0	4.5
UC	CH201	Environment Science (Core)	4	0	1	4.5
SEC	HS101	Professional Communication (Sec)	2	1	1	3
		Total				21

Year: 1st

Semester: II

Course Category	Course Code	Course Title	L	T	P	Credit
UC	ECO108	Micro Economics II (Core)	4	1	0	4.5
UC	ECO109	Macro Economics II (Core)	4	1	0	4.5
UC	ECO116	Mathematical Methods For Economics I	4	1	0	4.5
GE II	ECO148	Computer Applications In Economic Analysis (Interdisciplinary)	3	0	2	4
SEC	HS102	Corporate Communication &Soft Skills (Sec)	2	1	1	3
		Total				20.5

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Applicable for Batch: 2017-2020

Year: 2nd

Semester: III

Course Category	Course Code	Course Title	L	T	P	Credit
UC	ECO206	Development Economics I	5	1	0	6
UC	ECO207	Statistics for Economic Analysis I	5	1	0	6
UC	ECO208	Mathematical Methods for Economics II	5	1	0	6
UC		Generic Elective III	5	1	0	6
UC	ECO209	Application of Statistical Software in Economic Analysis	2	0	0	2
		Total				26

Generic Elective III

ECO246	Behavioral Economics
ECO247	Indian Economy II
ECO248	Industrial Economics

Year: 2nd

Semester: IV

Course Category	Course Code	Course Title	L	T	P	Credit
UC	ECO216	Development Economics II	5	1	0	6
UC	ECO217	Statistics for Economic Analysis II	5	1	0	6
GE		Generic Elective IV	5	1	0	6
SEC	HS446	Industrial Psychology	2	0	0	2
		Total				20

Generic Elective IV

ECO249	Contemporary Economic Issues
ECO256	Introduction to Research Methods

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Year: 3rd

Semester: V

Course Category	Course Code	Course Title	L	T	P	Credit
UC	ECO306	International Economics	5	1	0	6
UC	ECO307	Econometrics	5	1	0	6
DSE I	ECO346/347	Discipline Specific Elective I	5	1	0	6
DSE II	ECO 348/349	Discipline Specific Elective II	5	1	0	6
Total						24

Discipline Specific Elective-I

ECO346	Agricultural Economics
ECO347	History of Economic Thought

Discipline Specific Elective-II

ECO348	Financial Economics
ECO349	Political Economy

Year: 3rd

Semester: VI

Course Category	Course Code	Course Title	L	T	P	Credit
UC	ECO308	Money and Banking	5	1	0	6
UC	ECO309	Public Finance	5	1	0	6
DSE III	ECO356/357	Discipline Specific Elective III	5	1	0	6
DSE IV	ECO358/359	Discipline Specific Elective IV	5	1	0	6
PRJT	ECO366	Research Project	0	0	9	4.5
Total						28.5

Discipline Specific Elective-III

ECO356	Environmental Economics
ECO357	Labour Economics

Discipline Specific Elective-IV

ECO359	Comparative Economic Development
ECO358	Economics of Health and Education

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Summary of the Credit

Year	Semester	Credit
1	1	21
	2	20.5
2	3	26
	4	20
3	5	24
	6	28.5
Total		140

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Subject Code	ECO106	Subject Title	MICRO ECONOMICS-I						
LTP	4-1-0	Credit	4.5	Subject Category	UC	Year	1 st	Semester	I

Course Objective:

To give the students a thorough understanding of the principles of economics that apply to the decisions of individuals--both consumers and producers--within the larger economic system.

- ☐ To give primary emphasis on the nature and functions of product markets, and to include the study of factor markets and the role of government in promoting greater efficiency and equity in the economy.
- ☐ To introduce economic analysis of individual, business, and industry choices in the market economy.

UNIT 1: Introduction and Basic concepts

(9 Lectures)

Definition & Meaning ,Nature and scope of micro economics, Basic Economic Problem - Choice and Scarcity, Methodology of Economics -Inductive and Deductive methods, Positive vs. Normative Economics, Static and Dynamic Analysis, Partial vs. General Equilibrium Analysis.

UNIT 2: Demand &Supply

(8Lectures)

Law of Demand, demand of a firm and Market; Elasticity of Demand - Price, Cross and Income Elasticity of Demand - Measurement of price Elasticity of Demand; Consumer Behaviour: Theories of Demand;

UNIT 3: Consumer Theory

(9Lectures)

Introduction, Utility, Cardinal Utility approach Budget Constraint, Opportunity cost, Preferences; Indifference curve, Consumers equilibrium. Price, Income and Substitution effects (Hicks Allen & Slutsky method), Revealed Preference Theory.

UNIT 4: Theory of production and cost

(9 Lectures)

Production Function - The Law of Variable Proportions; Returns to Scale-Isoquant; Least Cost Combination and Producer's Equilibrium, Traditional and Modern theories of Costs, Cost-output relation.

UNIT 5: Price and output determination

(9 Lectures)

Perfect competition: Features, Price determination in short and long run Equilibrium of Firm and Industry, Monopolistic competition – features, equilibrium of the firm with product differentiation and selling cost. Monopoly: Price and output determination, Price discrimination, Bilateral Monopoly

Learning Outcome

- ☐ By the end of this course the students will be able to understand how principles of economics that applies to the decisions of individuals--both consumers and producers--within the larger economic system.
- ☐ The Student will understand how households make decisions in the face of scarcity and how these decisions vary in response to changes in the economic environment.
- ☐ The students will be able to give primary emphasis on the nature and functions of product markets, and also the study of factor markets and the role of government in promoting greater efficiency and equity in the economy.

Text book [TB]:

1. N. Gregory Mankiw, *Economics: Principles and Applications*, India edition by South Western, a part of Cengage Learning, Cengage Learning India Private Limited.
2. Ahuja, H.L. (2006): *Moden Microeconomics: Theory and Applications*, Sultan Chand and Co., New Delhi.

Reference books [RB]:

1. Koutsoyiannis, A: (1979): *Modern Microeconomics* (2nd ed.), Macmillan Press, London.
2. Sen, A (1999): *Microeconomics: Theory and Applications*, Oxford University Press, New Delhi.
3. Karl E. Case and Ray C. Fair, *Principles of Economics*, Pearson Education, Inc., 8th edition, 2007.
4. Snyder and W. Nicholson, *Fundamentals of Microeconomics*, Cengage (India),2010

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Applicable for Batch: 2017-2020

Subject Code	ECO107	Subject Title	MACRO ECONOMICS-I						
LTP	5-1-0	Credit	4.5	Subject Category	UC	Year	1 st	Semester	I

Course Objective:

- ☐ This course aims to introduce the students to the basic concepts of Macroeconomics and explains how Macroeconomics deals with the aggregate economy.
- ☐ This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance of payments.

UNIT 1: Introduction and Basic concepts (10 Lectures)

Introduction: Nature and Scope of Macro Economics, Difference between Micro and Macro Economics and Importance of Macro Economics. National Income: Concepts, Measurement and limitations of National Income Statistics, Circular flow of income in two, three and four sector economy.

UNIT 2: Determination of Income and Employment (10 Lectures)

Classical theory of Income and Employment determination, Keynes objections to Classical Theory, Keynesian Theory of Income and Employment determination.

UNIT3:Consumption (10Lectures)

Consumption-Consumption Function, Technical Attributes of Consumption, Keynesian Psychological Law of Consumption and its Implications.
Income – Consumption Relationship: Absolute and Relative Income Hypothesis and Permanent Income Hypothesis

UNIT 4:Investment Function (12 Lectures)

Types of Investment, Determination of level of Investment, Marginal Efficiency of Capital (MEC).

UNIT 5: Theories of Investment (10 Lectures)

Classical and Keynesian Theory of Investment (Marginal Efficiency of Investment), Saving –Investment Equality.

Learning Outcome

- ☐ Students will be able to understand the concept of Income and Employment and investment with appropriate theoretical insights and validate theory with empirical data.
- ☐ Students will be able to understand the factors determining Gross Domestic Product, Employment, The General Level of Prices and Interest Rates.

Text book [TB]:

1. N. Gregory Mankiw, *Economics: Principles and Applications*, India edition by South Western, a part of Cengage Learning, Cengage Learning India Private Limited.
2. Ahuja, H.L. (2006): *Modern Microeconomics: Theory and Applications*, Sultan Chand and Co., New Delhi.

Reference books [RB]:

1. Andrew B. Abel and Ben S. Bernanke, *Macroeconomics*, Pearson Education, Inc., 7th edition, 2011.
2. Olivier Blanchard, *Macroeconomics*, Pearson Education, Inc., 5th edition, 2009.
3. Lipsey R.G. and K.A. Christal (1999) —*Principles of Economics*|| 9th Ed., Oxford University Press.
4. Stiglitz J. E. and Carl E. Walsh (2002), *Principles of Macroeconomics*, W.W. Norton and Company, New York

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Applicable for Batch: 2017-2020

Subject Code	ECO146	Subject Title	Indian Economy I						
LTP	4-1-0	Credit	4.5	Subject Category	UC	Year	1 st	Semester	I

Course Objective:

- ☐ Application of Economic Theory in the context of India's Economic Growth and Development.
- ☐ To explore a set of inter related issues relating to the growth and development of the Indian Economy.
- ☐ To enable students to have an understanding of the various issues/components of the Indian economy so that they are able to comprehend and critically appraise current Indian economics problems.

UNIT 1: Introduction to Indian Economy

(8 Lectures)

Introduction to Indian Economy – Basic characteristics and features of Indian economy. Economic Planning in India: Features, Objectives and Assessment of Indian Planning. (Plan Wise details to be excluded).

UNIT 2: Demographic features of India's population

(8 Lectures)

Demographic features of India's population. Inter-state disparities in the pattern of development. Structural Change in the distribution of Income and Workforce in India.

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UNIT 3: Poverty and Unemployment in India

(10 Lectures)

Poverty and Unemployment in India. Programmes for Eradication of Poverty and Unemployment with Special Reference to the Post – Reform Era.

UNIT 4: Indian Agriculture

(8 Lectures)

Agriculture: Features of Indian Agriculture. Impact of Green Revolution on Indian Agriculture. Recent Trends in Agricultural Development -- Causes of Deceleration and Future Challenges

UNIT 5: Industrial policies in India

(10 Lectures)

Making of Industrial policies in India, continuity and change FERA to FEMA, De-licensing, disinvestment SMEs- growth, structure, policy performance, dualism, labour absorption

Learning Outcome

- ☐ The student will be able to develop better Understanding regarding the various aspects of India's Economy and develop a perspective on the different problems and approaches to economic planning and development in India.
- ☐ The student will understand the role of the Indian Economy in the global context, and how different factors have affected this process.
- ☐ The student will be able to understand various issues related to economic condition of India, analyze the economic development of India, analyze the various policies / programmes run by the government for improving the economic condition.

Text book [TB]:

1. Lucas, E.B., and Papanek, G.F.: The Indian Economy- Recent Developments and (eds.) 1988 Future Prospects, Oxford University Press, New Delhi.
2. Dutt.R, (2006): Indian Economy, Sultan Chand and Co., New Delhi.

Reference books [RB]:

1. Brahmananda, P.R. and Panchmukhi: The Development Process of Indian Economy, V.R. (eds.) 1987 Himalaya Publishing House, Bombay.
2. Jalan, Bimal 1992: The Indian Economy – Problem and Prospects, Viking, New Delhi.
3. Byres, T J (Ed.) (1998): The Indian Economy: Major Debate Since Independence, Oxford University Press, New Delhi.
4. Economic Survey: Government of India. Various Issues.
5. Economic and Political Weekly: Various Issues

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Subject Code	CH 201	Subject Title	ENVIRONMENT SCIENCE						
LTP	4-1-0	Credit	4.5	Subject Category	UC	Year	1 st	Semester	I

Course Objective:

- ☐ To develop an understanding of global and regional natural environment and its relationship with human activities.
- ☐ Develop an awareness of eco systems in the context of coupled human- environmental interactions.
- ☐ To enable students to design and evaluate strategies, technologies, and methods for sustainable management of environmental systems and for the remediation or restoration of degraded environments.

UNIT 1: Basics of Environment and Natural Resources

(9Lectures)

Definition and Concept of Environment, Multidisciplinary nature of environmental studies Scope and importance of environmental studies, Need for public awareness, Environmental concerns and people, Introduction and classification of natural resources. Energy Resources, Water Resources, Land Resources, Forest Resources, Food Resources, Mineral Resources, Case studies related to over exploitation of resources and their impacts. Role of an individual in conservation of natural resources, Sustainable lifestyles.

UNIT2: Ecosystems

(9 Lectures)

Definition and concept of ecology, Structure and Function of an Ecosystem, Energy Flow in Ecosystem, Biogeochemical cycles (Nitrogen, Carbon, Phosphorus, Oxygen, Hydrological), Species interactions in ecosystems, Ecological succession and ecological pyramids, Characteristic features of grassland, pond, desert and forest ecosystems., Ecosystem services and conservation

UNIT 3: Biodiversity and Its Conservation

(8 Lectures)

Introduction and types of biodiversity, Bio-geographic classification of India, Value and significance of biodiversity, Biodiversity at global, national and local levels, India: A mega-diversity nation, Biodiversity hotspots, Threats to Biodiversity: Poaching and man-wildlife conflicts, IUCN Red Data Book and endangered & endemic species of India, Biodiversity conservation strategies, Institutes and organizations.

UNIT 4: Environmental Pollution

(9Lectures)

Introduction, Definition. Causes, consequences and control measures of: Air pollution, Water pollution, Noise pollution, Nuclear pollution, Soil pollution, Thermal and Marine pollution. Solid waste management, Bio-medical waste management, Disasters and its mitigation strategies, Global warming, Climate change, Acid rain, Ozone depletion and Smog. Pollution case studies, Role of an individual in pollution prevention

UNIT 5: Social Issues and Environment

(9Lectures)

Sustainable Development: Concept and importance of Environmental Impact Assessment (EIA), GIS, Remote sensing. Water conservation and rain water harvesting, Resettlement and rehabilitation problems, Environmental audit, eco-labeling and eco-friendly business, Environmental Legislation in India Population explosion and its impact on environment and human health Family planning, Human rights, Women and Child Welfare, Value Education and environmental ethics

Learning Outcome

- ☐ The students will be able to analyze human impacts on the environment and identify the biological and physical components of varied ecosystems.
- ☐ Students will develop a sense of community responsibility by becoming aware of scientific issues in the larger social context

Approved by the Academic Council at its 6th Meeting held on 13.05.2017

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Text book [TB]:

1. Bharucha Erach, 2004. Textbook for Environmental Studies, University Grants Commission, New Delhi.
2. Kaushik A & Kaushik C P. 2007. Perspectives in Environmental Studies, New Age International Publishers.

Reference books [RB]:

1. De A.K., Environmental Chemistry, Wiley Eastern Ltd.
2. Miller T.G., Living in the Environment, Brooks/Coleman, Thomas Learning Inc.,USA.
3. Sharma, P.D., Ecology and environment, Rastogi Publication.

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Applicable for Batch: 2017-2020

Subject Code	HS 101	Subject Title	Professional Communication						
LTP	2-1-1	Credit	3	Subject Category		Year	1 st	Semester	I

Course Objective:

UNIT1:Communication (7Lectures)

Communication: Meaning, Types of Communication: General & Technical Communication. Barriers to Communication, Overcoming strategies.

UNIT 2: Non Verbal Communication (3Lectures)

Knowledge and adoption of Non Verbal cues of communication: Kinesics, Proxemics, Chronemics, Oculistics, Haptics, Paralinguistics

UNIT 3: Listening & Speaking Skills (7Lectures)

Listening Comprehension: identifying General & Specific information, Note taking and drawing inferences. Introduction to Phonetics and Articulation of consonants and vowel sounds. Public Speaking Discussion Techniques

UNIT 4: Reading Skills (4 Lectures)

Reading Strategies and Vocabulary Building, Reading Comprehension

UNIT 5: Technical Writing Skills (9Lectures)

Sustainable Development: Concept and importance of Environmental Impact Assessment (EIA), GIS, Remote sensing. Water conservation and rain water harvesting, Resettlement and rehabilitation problems, Environmental audit, eco-labeling and eco-friendly business, Environmental Legislation in India Population explosion and its impact on environment and human health Family planning, Human rights, Women and Child Welfare, Value Education and environmental ethics

Learning Outcome

Text book [TB]:

1. Rizvi, Ashraf. Effective Technical Communication, McGraw Hill, New Delhi.2005.
2. Raman, Meenakshi and Sangeeta Sharma,. Technical Communication: Principles and Practice, 2nd Edition. New Delhi: Oxford University Press. 2011.

Reference books [RB]:

1. Aslam, Mohammad. Introduction to English Phonetics and PhonologyCambridge.2003.
2. Ford A, Ruther. Basic Communication Skills; Pearson Education, NewDelhi.2013.
3. Gupta, Ruby. Basic Technical Communication, Cambridge University Press, NewDelhi.2012.
4. Kameswari, Y. Successful Career Soft Skills and Business English, BS Publications, Hyderabad.2010.
5. Tyagi, Kavita & Padma Misra. Basic Technical Communication, PHI, New Delhi.2011.

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Applicable for Batch: 2017-2020

Subject Code	ECO108	Subject Title	MICRO ECONOMICS-II						
LTP	4-1-0	Credit	4.5	Subject Category	UC	Year	1 st	Semester	II

Course Objective:

- ☐ To make students understand the competitive, monopolistic, monopolistically competitive, and oligopolistic markets, how they are organized and the outcomes of these markets.
- ☐ To give primary emphasis on the nature and functions of product markets, and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy.
- ☐ To develop the skills and knowledge of advanced microeconomics necessary for a career as an academic economist and in all areas where advanced research skills in economics are required.

UNIT 1: Price and output determination

(8 Lectures)

Oligopoly-Price and output determination – Non Collusive: Cournot, Kink demand curve and price rigidity, Collusive: Price leadership, Cartels.

UNIT 2: Alternative Theories of the Firm

(8 Lectures)

Critical evaluation of marginal analysis; Baumal's sales revenue maximization model (simple static with advertisement model); Full-cost pricing rule; Bain's, limit pricing theory.

UNIT 3: Theory of Factor Pricing

(10 Lectures)

Market for Factor Inputs: (largely with reference to Labour): A Firms's and Market Demand for a labour (with one and several variable inputs) and its determinations. Supply of labour to a firm and the Market. Equilibrium Wage Rate and Employment under:- Competitive Factor and Product Market, Monopsonistic buyer of Labour and perfect competition in Labour market, Imperfect competition in product market and Trade Union Monopoly, Bilateral Monopoly

UNIT 4: Game Theory

(10 Lectures)

Game Theory and Competitive Strategy – the normal form; dominant and dominated strategies mixed strategies nash equilibrium extensive form game with perfect information- the game tree.

UNIT 5: Welfare Economics

(12 Lectures)

Conditions of Pareto Optimality; Pareto efficiency versus Pareto optimality, Market failure and its causes; Markets with Imperfect competition; consumption and production externalities; public goods. Ways for correcting it.

Learning Outcome

- ☐ It will make students understand the intricacies of competitive, monopolistic, monopolistically competitive, and oligopolistic markets.
- ☐ The students will be able to emphasize on the nature and functions of product markets, and include the study of factor markets and the role of government in promoting greater efficiency and equity in the economy.
- ☐ The students will be able to enhance the skills and knowledge of advanced microeconomics necessary for a career as an academic economist and in all areas where advanced research skills in economics are required.

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Text book [TB]:

1. N. Gregory Mankiw, *Economics: Principles and Applications*, India edition by South Western, a part of Cengage Learning, Cengage Learning India Private Limited.
2. Ahuja, H.L. (2006): *Modern Microeconomics: Theory and Applications*, Sultan Chand and Co., New Delhi.

Reference books [RB]:

1. Sen, A. (1999), *Microeconomics: Theory and Applications*, Oxford University Press, New Delhi.
2. Varian, H. (2000), *Microeconomic Analysis*, W.W. Norton, New York.
3. Karl E. Case and Ray C. Fair, *Principles of Economics*, Pearson Education, Inc., 8th edition, 2007.
4. C. Snyder and W. Nicholson, *Fundamentals of Microeconomics*, Cengage (India), 2010

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Applicable for Batch: 2017-2020

Subject Code	ECO109	Subject Title	MACRO ECONOMICS –II						
LTP	4-1-0	Credit	4.5	Subject Category	UC	Year	1 st	Semester	II

Course Objective:

- ☐ The course is designed to introduce learners to the basic concepts such as Aggregate Demand, Aggregate Supply and Circular Flow Of Income, macroeconomic environment and the principles underlying macroeconomic policies and government strategies.
- ☐ In this course, the students are also introduced to the long run dynamic issues like growth and technical progress.
- ☐ It also provides the insight to the various aggregative concepts used in the previous course.

UNIT 1: Keynesian Multiplier (10 Lectures)

Concepts, Relation between Multiplier, MPC and MPS, Comparative Static and Dynamic Process. Working of Multiplier in UDC's. Acceleration Principle and Concept of Super Multiplier.

UNIT 2: Determination of General Price level (8 Lectures)

Classical and Keynesian Theory of Money and Prices. Inflation: Effects of Inflation, Theories of Inflation: Cost Push and Demand Pull Inflation, Phillips Curve Analysis of Inflation and unemployment.

UNIT3: ISLM (8Lectures)

Rate of Interest: Keynesian and IS-LM Theories of Interest rate. Macro Economic Policies: Monetary and Fiscal Policies.

UNIT 4: Trade Cycles (8Lectures)

Trade Cycles: Meanings, Types, Phases and Theories of Trade Cycles (Hicks and Samuelson), Control of Trade Cycle, Recent Recessions in the World

UNIT 5: Economic Growth (10Lectures)

Meaning and theories. Harrod-Domar Theory and Neo-classical Theories, Solow Swan Model, Ramsey Model, Diamond Samuelson Model

Learning Outcome

- ☐ The student will develop a perspective on functioning of the economy.
- ☐ The Student will develop critical understanding of the policy implications and theoretical models of the Macro economy.

Text book [TB]:

1. Dewett K.K. & Navalur M.H., Modern Economic Theory, S. Chand &Co Ltd, New Delhi,2010
2. Paul Samuelson and Nordhaus: —Economics|| (18th Ed.) Tata Hill Publishing Company

Reference books [RB]:

1. Lipsey R.G. and K.A. Christal)—Principles of Economics|| 9th Ed., Oxford University Presss.
2. Branson, W. A. (1989), —Macroeconomics: Theory and Policy||, 3rd ed. Harper and Harper and Row, New York.
3. Shapiro, E (1996), —Macroeconomics: Analysis|| Galgotia Publication, New Delhi.
4. Stiglitz J. E. and Carl E. Walsh (2002), Principles of Macroeconomics, W.W. Norton and Company, New York.

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Subject Code	ECO116	Subject Title	Mathematical Methods For Economics I						
LTP	4-1-0	Credit	4.5	Subject Category	UC	Year	1 st	Semester	II

Course Objective:

- ☐ The Course is developed to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus.
- ☐ In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general.

UNIT 1: Basic Concepts (8Lectures)

Variables and Parameters; Sets; Functions and their graphs; concepts of Limits

UNIT 2: Quadratic and simultaneous (8 Lectures)

Equations – simple, quadratic and simultaneous and Identities; Equations of a straight line, concept of slope; Equation and interpretation of Rectangular Hyperbola, Logarithms and exponents.

UNIT 3: Arithmetic and Geometric (8Lectures)

Series –Arithmetic and Geometric; Rate of growth and its Measurement, Present Value and its Applications. Annuities: value; Simple Differentiation – concept and applications.

UNIT4:Differentiation (10Lectures)

Partial and Total differentiation; Homogenous function and Euler’s Theorem; Maxima and Minima of Functions of one and two variables; Constrained Optimization Problem (with maximum three variables). Integration of a function; Methods of Substitution and Partial fractions; Integration by parts.

UNIT5: Applications (10Lectures)

Simple and Direct Applications of the above Concepts in economics: Concept of elasticity; Elasticity of demand; Average and Marginal functions; Interrelationships among total, marginal and average cost and revenues. Optimization problems relating to revenue, cost, profit, utility and production; Consumer’s surplus and producer’s surplus.

Learning Outcome

- ☐ The Student will Understand and use the mathematical in a variety of economic models.
- ☐ The student will learn to apply mathematical methods and techniques that are formulated in abstract settings to concrete economic applications.

Text book [TB]:

1. Sharma.J.K., Business Mathematics, Ane Book India.

Reference books [RB]:

1. Chian, A.C. and K. Wainwright (2005) Fundamental Methods of Mathematical Economics, Fourth Edition. McGraw-Hill.
2. Jacques, I. (2009) Mathematics for Economics and Business, 5th Edition, Prentice Hall.
3. Wisniewski, M. (2003) Mathematics for Economics, 3rd Edition, Palgrave Macmillan.
4. K. Sydsaeter and P. Hammond, *Mathematics for Economic Analysis*, Pearson Educational Asia: Delhi,2002.

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO148	Subject Title	COMPUTER APPLICATIONS IN ECONOMIC ANALYSIS						
LTP	3-0-2	Credit	4	Subject Category	GE II	Year	1 st	Semester	II

Course Objective:

- To enable students to have an understanding of how computers work and make academic work more efficient.
- Learn basic word processing skills.
- To learn principles of using Excel and SPSS and how to work on it.

UNIT 1: MS word

(7Lectures)

Introduction to Word Processing: Editing, viewing documents in different layouts, page margins, indent, bulleting and numbering, bold face, italics, underline, fonts and fonts size, borders and shading, find and replace, page breaks and page numbers, headers and footers, Printing: What To Do Before Printing? Introduction To 'Page Setup', 'Print Preview' And 'Print, Dialog Box'

UNIT 2: MS-Excel: Excel basic

(7 Lectures)

Introduction about Microsoft Excel at the basic level: overview, tools, creates a spreadsheet, format, spreadsheet, calculations, create charts and printing; Solve problems with Excel: Solve some economics problem on spreadsheet: Introduction about the modelling process on spreadsheet and using Excel tools to solve the problems

UNIT 3: MS-PowerPoint

(8Lectures)

Presentation with PowerPoint: PowerPoint components, What's Slide Master? What's Title Master? Creating a presentation with full components: text, picture, drawing, WordArt, equation, organization chart, chart, table, sound, video clips, Customizing and applying effects for a slide: template design, background color, animation, effects, built-in animation effects, navigation buttons, etc. Printing and exporting a slide

UNIT4: Graphics

(8Lectures)

Uses of computer graphics, classification of applications, software for computer graphics: Harvard and Stanford Graphics, MS-Excel graphics

UNIT 5: SPSS and E-views Basics

(6Lectures)

Basic components, Start and exit, Window manipulation, Create and save a new work file, Open an existing work file, Select a subset (sample) of observations in the work file, Create new series, Delete a series, Create groups of objects and edit data, Rename, copy and delete objects, Create a new object out of current view (freeze), Printing objects, Import data from Excel file, Create different types of graph of series, Display summary statistics for series

Learning Outcome

- ☐ The student will be able to apply fundamental principles of methods of computer science to a wide range of application.
- ☐ The student will get an understanding of using computers as user levels including programming environment.
- ☐ The student will be able to apply mathematical and scientific reasoning to a variety of computational problem of economic analysis.

Text book [TB]:

1. V. Rajaraman: Fundamentals of Computers, Prentice Hall (Ind.) New Delhi.
2. Sinha: Computer Fundamentals, BPB Publications, New York.

Reference books [RB]:

1. Michael Miller: Absolute Beginner's Guide to Computer Basics

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2. Michael Miller: Easy Computer Basics, Windows Vista Edition New Perspectives
Computer Concepts by Jamrich Parsons, Dan Oja
3. Microsoft Office Access 2007 on demand by Steve Johnson

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	HS102	Subject Title	Corporate Communication & Soft Skills						
LTP	2-1-1	Credit		Subject Category		Year	1st	Semester	II

Course Objective:



UNIT1: Business Communication (10 Lectures)

Importance & Features of Business Communication, Flow of Communication: Channels & Networks. Communication: E mails &E- Tools, Business Presentation, Business Etiquettes, Telephonic Etiquettes, Business Letter Writing, Job Application Letter & Resume, Interview Skills, Impression Management

UNIT 2: Personal Skills for Corporate Communication (10 Lectures)

SWOT Analysis: Self-Assessment, Identifying Strength & Weakness, Self-Awareness, Self-Disclosure & Self-Management (Stress, Anger), Goal Setting: Personal & Professional Goals, SMART-ER Goals, Human Perception: Understanding People, Perceptions, Attitudes, Personality (Personality Test)

UNIT 3: Professional Skills for Corporate Communication (10 Lectures)

Decision Making: Techniques, Six Thinking Hats, Creative Thinking, Lateral Thinking, Team Building & Leadership Skills, Time Management: Planning Organizing, Time Wasters, Conflict Resolution Skills, Negotiation Skills

Learning Outcome

Text book [TB]:

1. The Seven Habits of Highly Effective People by Steven R. Covey.2007
2. How to win Friends and influence People by Dale Carnegie.2009

Reference books [RB]:

1. Soft Skills: Know Yourself & Know the World by Dr. Alex. S. Chand Publications2001
2. The ACE of Soft Skills: Attitude, Communication and Etiquette for Success by Gopalswamy Ramesh.2008
3. Managing Soft skills for Personality development by B. N Ghosh.2006
4. Personality Development by Elizabeth B. Hurlock. TMH Publication.2010

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO206	Subject Title	DEVELOPMENT ECONOMICS – I						
LTP	5 -1 -0	Credit	6	Subject Category	UC	Year	2 nd	Semester	III

Course Objective:

- ☐ The study of the course Development Economics will address the development issues for poor countries.
- ☐ The course aims at explaining the causes and effects of poverty and deriving policy implications.
- ☐ The course is based on theoretical economics, adapted to reflect the special institutional structures that characterize most developing countries.

UNIT 1: Basic Concepts of Economic Development (12 Lectures)

Economic Growth and Development, Determinants and Measurement indicators (PQLI and HDI) of economic development: Sustainable economic development. Concept of Underdevelopment and basic characteristics

UNIT 2: Theories of Economic Development (10 Lectures)

Adam Smith, Karl Marx and Schumpeter

UNIT 3: Poverty and Inequality (12 Lectures)

Definitions measures and mechanism, Inequality Axioms; A Comparison of Commonly used Inequality Measures, Connection Between Inequality And Development; Poverty Measurement.

UNIT 4: Development Approaches to Development (8 Lectures)

Vicious Circle of Poverty, Lewis dual economy model, leibenstein critical minimum effort theory, Balanced vs. unbalanced growth theories, The Harrod-Domar model, the Solow model and its variants.

UNIT 5: Economic Planning and Policy (10 Lectures)

Development planning: rationale, Strategies and objectives of planning, Role of state and Capital formation in economic development

Learning Outcome

- ☐ The students will be able to understand the magnitude of the differences in incomes between countries and peoples of the world
- ☐ The students will get the knowledge of a variety of theoretical models and mechanisms and arguments that are relevant for development and poverty issues.
- ☐ The students will be able to do empirical research relevant for development and poverty issues.
- ☐ The Students will get the understanding of the nature and meaning of economic development or underdevelopment, both in general, and as applied to people in specific developing countries.

Text book [TB]:

1. Todaro, Michael P. and Stephen C Smith (2004) —Economic Development||, Pearson Education, (Singapore) Pvt. Ltd., Indian Branch, Delhi.
2. Ray, Debraj (2009), —Development Economics||, Seventh impression, *Oxford University Press, New Delhi.*

Reference books[RB]:

1. Meier, Gerald M. and James E. Rauch (2000), “*Leading Issues in Economic Development*”, Oxford University Press, New York.
2. Sen, A K (ed.) (1970): *Growth Economics*, Penguin Books
3. Partha Dasgupta, *Economics: A Very Short Introduction*, Oxford University Press, 2007. Abhijit Banerjee, Roland Benabou and Dilip Mookerjee, *Understanding Poverty*, Oxford Press, 2006.
4. Amartya Sen, *Development as Freedom*, Oxford University Press, 2000.

Approved by the Academic Council at its 6th Meeting held on 13.05.2017

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO207	Subject Title	Statistics For Economic Analysis-I						
LTP	5 -1 -0	Credit	6	Subject Category	UC	Year	2 nd	Semester	III

Course Objective:

- ☐ The Course provides understanding of basic concepts and terminology that are fundamental to statistical analysis and inference.
- ☐ To enable the students about the application of statistical tools and to understand the assumptions underlying those statistical tools.

UNIT 1: Data Presentation & Central Tendency

(12 Lectures)

Collection, Classification and Presentation of statistical data, Measures of Central Tendency: A.M., G.M., H.M., Median, Quartiles, Deciles, Percentiles, Mode

UNIT 2: Descriptive Statistics for Univariate Data

(10 Lectures)

Measures of dispersion: range, inter-quartile range, quartile deviation, mean deviation, variance, standard deviation, Lorenz curve, skewness and Kurtosis, moments

UNIT 3: Index numbers

(12 Lectures)

Problems and methods of construction of various types of indices, Laspeyres, Pasche's and Fisher's ideal index numbers, Time reversal, factor reversal and circular tests. Time series Analysis: Components and Measurements

UNIT 4: Descriptive Analysis of Bivariate Analysis

(8 Lectures)

Definition of Bivariate data, scatter diagram, covariance - measure of association - Coefficient of Simple Correlation, Properties and the method of calculation. Concept of rank correlation - Spearman's Rank Correlation

UNIT 5: Simple Linear Regression

(10 Lectures)

Measure of influence - Simple Linear Regression - Least Squares and Normal Equations and determination of regression coefficient, Difference between the correlation approach and the regression approach.

Learning Outcome

- ☐ The students will develop Quantitative reasoning skills and understand how to use empirical evidence to evaluate the validity of an economic argument, use statistical methodology, interpret statistical results and conduct appropriate statistical analysis of data.
- ☐ Students should be able to interpret and apply basic statistical methods and understand empirical papers of an appropriate level.

Text book [TB]:

1. Gupta S.C. —Fundamentals of Statistics S. Chand & Sons New Delhi(2013)
2. Spiegel, Murry R —Theory and problems of Statistics|| (Schaum's outline series, McGraw Hill, 1992)

Reference books [RB]:

1. John E. Freund, *Mathematical Statistics*, Prentice Hall, 1992.
2. Richard J. Larsen and Morris L. Marx, *An Introduction to Mathematical Statistics and its Applications*, Prentice Hall, 2011.
3. Karmal P.H. and Polasek M. —Applied Statistics for Economists (4th edition), Pitman, Australia.
4. Goon. Gupta, Dasgupta: Basic Statistics, World Press Private Limited Nagar and Das: Basic Statistics

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO208	Subject Title	Mathematical Methods For Economics – II						
LTP	5-1 -0	Credit	6	Subject Category	UC	Year	2 nd	Semester	III

Course Objective:

- ☐ To acquire knowledge of economic and mathematical concepts, theories and methods and to demonstrate competency in using this information to analyze economic events, understand the workings of economic institutions and to evaluate economic policies.
- ☐ This course focuses on the mathematical methods and models that are required to understand current economics and to investigate economic models.

UNIT 1: Matrices and Determinants

(12 Lectures)

Types; Transpose, trace, adjoint and Inverse of matrices, Solution of a system of two and three equations by Matrix Inverse and Cramer's methods, Linear independence and Linear dependence of vectors; Rank of a matrix; Simple Application questions. Application in Input-Output analysis.

UNIT 2: Differential Equation

(10 Lectures)

Introduction; Solution: Variable separable case, Homogeneous case, Standard linear differential equation, Bernoulli's form, Exact equation; Solution of linear differential equation with constant coefficients; Simple Application questions.

UNIT 3: Functions of several real variables

(9 Lectures)

Geometric representation; graphs and level curves, Differ second order derivatives; properties and application, the implicit function theorem and application to comparative statics problems.

UNIT 4: Multi Variable Optimization

(11 Lectures)

Convex sets; Geometric Properties of Function, Convex Function And Their Characterization Properties And Applications ; Quasi. Convex Function And Their Characterization Properties And Application of unconstrained optimization: Geometric characterization, characterizations using Calculus and applications.

UNIT 5: Game Theory

(10 Lectures)

Categories of games, normal form and extensive form presentation Nash equilibrium and Refinements: Dominant strategy Nash equilibrium, Rationalizable strategy, Equilibrium in Oligopoly. Sequential games, Repeated games, Introduction to Co-operative Games

Learning Outcome

- ☐ The students should be able to acquire and demonstrate analytical and critical thinking skills and to apply and interpret quantitative, qualitative and graphical information in a problem-solving context.
- ☐ The students will develop the skills necessary to communicate effectively in writing and orally about economic and mathematical issues
- ☐ The students will develop numerical examples and algebraic models to illustrate a variety of theoretical economic result.

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Text book [TB]:

1. Sharma.J.K., Business Mathematics ,Ane Book India.
2. K. Sydsaeter and P. Hammond, *Mathematics for Economic Analysis*, Pearson Educational Asia: Delhi,2002.

Reference books [RB]:

1. Chian, A.C. and K. Wainwright, Fundamental Methods of Mathematical Economics, Fourth Edition. McGraw-Hill.
2. Jacques, I., Mathematics for Economics and Business, 5th Edition, Prentice Hall.
3. Wisniewski, M., Mathematics for Economics, 3rd Edition, Palgrave Macmillan
4. Bose, D C (1996): An Introduction to Mathematical Economics. Himalaya Publishing House, Bombay

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO246	Subject Title	Behavioral Economics						
LTP	5-1-0	Credit	6	Subject Category	GE III	Year	2 nd	Semester	III

Course Objective:

- ☐ To provide students with an understanding of the principles of human behaviour in organizations with relevance to the Indian business context.
- ☐ To provide that how an individual economic agent can contribute in economic activities.

UNIT 1: Introduction

(12 Lectures)

Definition of Behavioral Economics? Behavioral Economics and the Standard Economic Models (The Neoclassical Repairshop); Evaluating Economic Theories; History and Evolution: the Neoclassical Approach.

UNIT 2: Decision Theory

(12 Lectures)

Expected Utility Theory; Classical Anomalies; Prospect Theory; Probability Judgments

UNIT 3: Behavioral Game Theory

(12 Lectures)

Game Theory Concepts; Player Bargaining; Rationality & Strategic Interaction

UNIT 4: Social Preferences & Labor Economics

(12 Lectures)

Evidence of Social Behavior; Models of Fairness and Reciprocity; Behavioral of labor

UNIT 5: Social Activities and Behavioral Economics

(12 Lectures)

Social preferences: fairness, reciprocity, social signaling; Intertemporal choice, self-control. Imperfect memory; Incentives, motivation; Attitude to information. Beliefs as an argument of utility functions

Learning Outcome

- ☐ To increase familiarity of students towards Behavioral Economics.
- ☐ Students would be in position to take economic decision at individual level.
- ☐ Develop an understanding of the philosophy and the principles underlying the field of behavioral economics.

Text book [TB]:

1. Richard H. Thaler. Misbehaving-Making of Behavioral Economics. WW Norton & Company, 2015
2. Colin F. Camerer, George Loewenstein and Mathew Rabin. Advance in Behavioral Economics. Princeton University Press, 2011

Reference books [RB]:

1. Ariely, D., G. Loewenstein, and D. Prelec (2003): "Coherent Arbitrariness: Stable Demand Curves without Stable Preferences", Quarterly Journal of Economics, 118(1).
2. Benabou R. and J. Tirole (2002) "Self-Confidence and Personal Motivation", Quarterly Journal of Economics, 117(3):871-915.
3. Benabou R. and J. Tirole (2003) "Intrinsic and Extrinsic Motivation", Review of Economic Studies, 70:489-520.
4. Bernheim D. (1994) "A Theory of Conformity", Journal of Political Economy, 102:842-877.

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO247	Subject Title	Indian Economy-II						
LTP	5 -1- 0	Credit	6	Subject Category	GE III	Year	2 nd	Semester	III

Course Objective:

- ☐ To enable students to have an understanding of the various issues/components of the Indian economy so that they are able to comprehend and critically appraise current Indian economics problems.
- ☐ This course will explore a set of inter related issues relating to the growth and development of the Indian Economy.
- ☐ Application of Economic Theory in the context of India's Economic Growth and Development.
- ☐ To enumerate the fundamentals of Indian economy, business and industry.
- ☐ To study the present status of Indian Economics and to get a glimpse of future challenges.

UNIT 1: Impact of colonial rule on certain areas in the Indian economy (12 Lectures)

Indian Agriculture from Cornwallis to commercialization, The state of industrial development in mid- nineteenth century India, The de-industrialization, Emergence of modern capitalist industrial enterprise in India

UNIT 2: Foreign capital in Colonial India – its extent and impact (15 Lectures)

Foreign-trade-growth and composition; guided under-development' of India under the British rule; development' of India under the British rule; evolution of provincial finance, the nature and problem of public debt; Economic drain from India -form, extent and consequences.

UNIT 3: Indian Agriculture; Major Issues And their Impact (12 Lectures)

Land reforms; Tenancy of different kinds and their effects, Marketable surplus, Green Revolution in India, Minimum agriculture prices and Public Distribution system

UNIT 4: Indian Industries: Issues and their impact (8 Lectures)

Industrial licensing – justification and problems, Industrial stagnation and Crisis of Indian Economy, New industrial Policy and changing Indian state in the era of globalization.

UNIT 5: International trade (10 Lectures)

Foreign trade policy, special Economic zones, foreign investment inflows since 1991-FII, FDI Recent changes in exchange rate policy,

Learning Outcome

- ☐ Application of Economic Theory in the context of India
- ☐ Exposure to Indian Economic Data
- ☐ Critical Review of Research Papers
- ☐ The students will be able to understand various issues related to economic condition of India.
- ☐ To analyze the economic development of India analyze the various policies / programmes run by the government for improving the economic condition.

Text book [TB]:

1. S Acharya and R. Mohan: Indian Economy Performance and Challenges, Oxford University Press.
2. G. Kaushal: Economic History of India- 1757 to 1966. Kalyani Publishers, New Delhi.

Reference books [RB]:

1. U.Manila: Indiyian Economy since independence. Academic foundation New Delhi.
2. V B Singh (ed.): Economic History of India 1857-1956. Allied .Publications Private Limited, Bombay,1965.
3. A Panagariya: India the emerging Gaint, Oxford University Press.
4. S. K. Mishra and V.K Puri: Indian Economy Its Development Experience. Himalaya Publishing Houses, Mumbai.

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO248	Subject Title	Industrial Economics-II						
LTP	5- 1 -0	Credit	6	Subject Category	GE III	Year	2 nd	Semester	III

Course Objective:

- ☐ This course intends to provide knowledge to the students on the basic issues such as productivity, efficiency, capacity utilization and debates involved in the industrial development in India.

UNIT 1: Basic concepts in Game Theory (12 Lectures)

Basic concepts in Game Theory; Technology, Production Cost and Demand; Perfect Competition, Monopoly and Monopolistic Competition; Foundations of Oligopoly Theory; Markets for Homogeneous Products; Markets for Differentiated Products; Concentration.

UNIT 2: Investment and Pricing (15Lectures)

Investment in Entry Deterrence; Pricing Tactics: Discriminatory Pricing; Marketing Tactics: Bundling, Upgrading and Dealership; Quality, Durability and Warranties.

UNIT3: Advertising (12Lectures)

Advertising; Collusion and Cartels; Market Structure, Entry and Exit; Vertical Restraints; Research and Development.

UNIT 4: Market Performance (8Lectures)

Empirical Studies on Structure- Conduct-Performance Relationship; Empirical Studies on Market Performance; Management, Compensation and Regulation.

UNIT 5: Globalization and Indian industry (12 Lectures)

Globalization and Indian industry; International competitiveness of Indian industry; Privatization and issues relating to disinvestment policy; Industrial structure at the time of Independence; Industrial policy (Role of state); New industrial policy and economic reforms; Industrial growth and pattern; Structure of industrial labour; Employment dimensions of Indian industry; Industrial legislation; Industrial relations; Exit policy and social security; Wages and problems of bonus

Learning Outcome

- ☐ It would increase familiarity of students towards industrial economics.
- ☐ It would also increase the student's awareness towards industrial economics.

Text book [TB]:

1. RR Barthwal. Industrial Economics: An Introductory Text Book. Book Age Publications,2013
2. Ranjana Seth. Industrial Economics. Ane Books Pvt. Ltd,2010
3. Rajan Mishra. Industrial Economics and Management Principles. Lami Publications (P)Ltd., 2008.

Reference books [RB]:

1. Oz Shy. Industrial Organization- Theory & Applications. MIT Press,2016

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO209	Subject Title	Application of Statistical Software in Economic Analysis						
LTP	2 -0- 0	Credit	2	Subject Category	SEC I	Year	2 nd	Semester	III

Course Objective:

- ☐ It would emphasis on the concepts and application of probability theory, random variables, and distributions, sampling theory, statistical inference, correlation and regression.
- ☐ Statistical inference techniques such as estimation and significance testing are important in the fitting and interpretation of econometric models.
- ☐ Correlation and regression analysis are essential tools for measuring relationships between variable sand for prediction.

UNIT 1: Model Specification

(6 Lectures)

Data classification, role of data in modeling, exploratory data analysis (EDA) vs. formal statistical inference (FIS), different dimensions of data – social, time, spatial etc.

Modeling average: working with real world dataset (usefulness and shortcomings of modeling mean, relative efficiency of mean and median, confidence interval and its interpretation, etc.)

UNIT 2: Simple Model

(5 Lectures)

Basic principles and discussion on theoretical background; Regression with graphics – checking the model assumption, exploratory band regression, checking of high leverage & influential points, transformation of data towards linearity, double-log transformation vs. semi-log transformation, etc. Hierarchical sequence of simple regression, introduction of added variable plot, etc.

UNIT 3: Macro Level Data Set

(5 Lectures)

Working with different macroeconomic data set, money illusion in the demand function, partial vs. multiple regressions, decomposing the sum of squares across regression, coefficient of determination, partial regression vs. partial coefficients, checking the assumptions of regression model, etc.

UNIT 4: Regression on categorical variable

(5 Lectures)

Handling different data sets where dependent variable is categorical, preparation, distributional and contingency tables, test of association, Logit and Probit modeling, comparing logit with linear probability model.

Learning Outcome

At the end of this course the students-

- ☐ Handle real data with confidence
- ☐ Apply econometric methods of analysis to new circumstances
- ☐ Understand the conditions under which particular estimators are appropriate
- ☐ Apply the theoretical methods to numerical data
- ☐ Write and present technical material lucidly
- ☐ Understand the basic theory of the ordinary least squares, generalized least squares and panel data models

Text book [TB]:

1. W.T. Trochim, **Research Methods: The Concise Knowledge Base**, Atomic Dog Publisher, 2004. (ISBN:1592601464)
2. C.R. Kothari, **Research Methodology: Methods and Techniques** (2nd edition), New Age International,2009.

Reference books [RB]:

- ☐ D.N. Gujarati, Basic Econometrics, The McGraw-Hill Companies.2005.
- ☐ G.S. Maddala, Introduction to Econometrics, (3rd Edition) Wiley,2001.
- J.M. Wooldridge, Introductory Econometrics: A Modern Approach, South Western, 2009.

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO216	Subject Title	Development Economics – II						
LTP	5- 1 -0	Credit	6	Subject Category	UC	Year	2 nd	Semester	IV

Course Objective:

- ☐ The course will examine some of the major economic issues faced by individuals and governments in poorer countries, and introduce students to the field of development economics.
- ☐ The course will study the concepts and measurement of development, poverty and growth, and how economists use theory, empirical analysis and experiments to address issues in these areas.
- ☐ The course will help to survey the Topics: poverty and inequality, population growth, agriculture and rural development, investments in education and health and the role of women, governance and institutions, credit and insurance, foreign investment and aid, and international trade policy.

UNIT 1: Dualistic Development

(12 Lectures)

Social and Technological dualism, Nurkse disguised unemployment as saving potential, Fei Ranis Theory of Dual Economy, Haris Todaro Modal of Migration.

UNIT 2: Models of Growth

(10 Lectures)

Classical model: Mill Theory, Marxian model; Keynesian model

UNIT 3: Inequality and Development

(12 Lectures)

Meaning, Measurement Lorenz Curve, Kuznets Inverted U Shape curve, Inequality and Development:- Inter connection, Population Growth and Economic Development.

UNIT 4: Capital formation

(8 Lectures)

Meaning and sources, Capital output ratio; Human capital: concept and utilization, Foreign aid and Economic Development, Transfer of technology.

UNIT 5: Labour and Unemployment

(10 Lectures)

Disguised unemployment; Characterization and policy implications (Sen's Model); Economics of child labour: Empirical context, Basu-Van model of multiple equilibria with altruism, policy issues, Efficiency wage theory as explanation for wage rigidity and involuntary unemployment: A basic model

Learning Outcome

- ☐ The student will be able to describe the nature and meaning of economic development or underdevelopment, both in general, and as applied to people in specific developing countries
- ☐ The course enables the students to illustrate how economics can be used to create or analyze alternative approaches to promote development
- ☐ The student will be able to explain the major development problems, choices and opportunities currently faced by developing countries
- ☐ The student will learn to select, assess and justify specific policy choices that developing countries might make to achieve their economic and social objectives.
- ☐ The students will develop skills to Analyze, synthesize and evaluate information drawn from the available data and appropriate theoretical tools, and to express their ideas orally and in writing.

Text book [TB]:

1. Kaushik Basu: Analytical Development Economics (Oxford University Press), Chapter 10, Section 10.1, 10.2, 10.3 3.T
2. Thirlwall, A. P. (2003), —Growth and Development], Seventh edition, Palgrave Macmillan, New York.

Reference books [RB]:

1. Meier, Gerald M. and James E. Rauch (2000), —Leading Issues in Economic Development, Oxford University Press, New York.
2. Schultz, Theodore W. (1981): Investing in People, Hindustan Publishing Corporation (India), Delhi.
3. Amartya Sen: Resources, Value and Development (Oxford University Press)
4. Higgins, B.: Economic Development: Theory and Policies. Central Book Depot, Allahabad, 1963

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO217	Subject Title	Statistical Methods for Economics II						
LTP	5- 1 -0	Credit	6	Subject Category	UC	Year	2 nd	Semester	IV

Course Objective:

- ☐ The course introduce basic concepts and terminology that are fundamental to statistical analysis and inference.
- ☐ To provide an understanding of the importance of sampling techniques, data collection, interpretation, and evaluation.
- ☐ To develop an understanding of descriptive and inferential statistics and apply this understanding to economic and business phenomenon

UNIT 1: Introduction and Overview

(13 Lectures)

The distinction between populations and samples and between population parameters and sample statistics; the use of measures of location and variation to describe and summarize data; population moments and their sample counterparts.

UNIT 2: Elementary Probability Theory

(13 Lectures)

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

UNIT 3: Random Variables and Probability Distributions

(13 Lectures)

Defining random variables; probability distributions; expected values of random variables and of functions of random variables; properties of commonly used discrete and continuous distributions (uniform, binomial, normal, Poisson and exponential random variables).

UNIT 4: Random Sampling and Jointly Distributed Random Variables

(13 Lectures)

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

UNIT 5: Sampling, Point and Interval Estimation

(13 Lectures)

Principal steps in a sample survey; methods of sampling; the role of sampling theory; properties of random samples. Estimation of population parameters using methods of moments and maximum likelihood procedures; properties of estimators; confidence intervals for population parameters.

Learning Outcome

At the end of this course the students-

- ☐ CO 1 Handle real data with confidence
- ☐ CO 1 Apply econometric methods of analysis to new circumstances
- ☐ CO 3 Understand the conditions under which particular estimators are appropriate
- ☐ CO 4 Apply the theoretical methods to numerical data
- ☐ CO 5 Write and present technical material lucidly
- ☐ CO 6 Understand the basic theory of the ordinary least squares, generalized least squares and panel data models

Text book [TB]:

1. John E. Freund, *Mathematical Statistics*, Prentice Hall,1992.
2. Richard J. Larsen and Morris L. Marx, *An Introduction to Mathematical Statistics and its Applications*, Prentice Hall, 2011.
3. Goon. Gupta, Dasgupta: *Basic Statistics*, World Press Private Limited Nagar and Das: *Basic Statistics*, OUP
4. William G. Cochran, *Sampling Techniques*, John Wiley,2007.
5. Jay L. Devore, *Probability and Statistics for Engineers*, Cengage Learning,

Reference books [RB]:

1. Gupta S.C. —Fundamentals of Statistics S. Chand & Sons New Delhi(2013)
2. Spiegel, Murry R —Theory and problems of Statistics|| (Schaum's outline series, McGraw Hill, 1992)

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	HS446	Subject Title	Industrial Psychology						
LTP	2 -0 -0	Credit	2	Subject Category	SEC II	Year	2 nd	Semester	IV

Course Objective:

- ☐ Reform of Working Conditions
- ☐ Humanistic Approach in Industry
- ☐ Creating Proper Leadership

UNIT 1: INTRODUCTION TO INDUSTRIAL PSYCHOLOGY

(3 Lectures)

Definitions, History & Scope of Industrial Psychology, Major influences on Industrial Psychology, Classical Approaches (Scientific Management), Neo-Classical Approaches (Hawthorne Experiments)

UNIT 2: INDIVIDUAL BEHAVIOR AT WORKPLACE

(7 Lectures)

Emotional Quotient, Job related attitude: Job Satisfaction; Satisfaction with regards to pay and supervision, Measuring Job Satisfaction: Job Descriptive Index, Minnesota Satisfaction Questionnaire, Motivation & Theories: Need Theories (Maslow McClelland and Herzberg). Cognitive Theories (Goal Setting Theory, Self-Efficacy Theory).

UNIT 3: WORK ENVIRONMENT

(4 Lectures)

Organizational Culture- Meaning and Types, Influence of Organizational Culture on Employees, Leadership- Nature, Style and Approaches to Leadership, Group dynamics & Change Management

UNIT 4: PERFORMANCE MANAGEMENT

(4 Lectures)

Job Analysis and Learning, Training and Development- Objectives and Needs, Training Process, Methods of Training, Tools and Aids, Evaluation of Training Programs, Methods of Performance Appraisal

UNIT 5: STRESS AND CONFLICT MANAGEMENT

(7 Lectures)

Stress Management- Meaning, Causes, & Types, Work and Mental Health: Fatigue, Boredom, Accidents and Safety. Everyday Stress and its management- Refuting Irrational Ideas, Rational Emotive Behavioral Therapy, Goal Setting and Time Management, Conflict: Definition, Traditional Vs. Modern view of conflict, Types of Conflict – Intra personnel, Interpersonal, Organizational, Constructive and Destructive Conflict, Conflict Management

Learning Outcome

- ☐ Creating motivated workers
- ☐ Creating a conducive environment at workplace

Text book [TB]:

1. Miner J.B. (1992) Industrial/Organizational Psychology. N Y: McGraw Hill.

Reference books [RB]:

1. Blum & Naylor (1982) Industrial Psychology. Its Theoretical & Social Foundations CBS Publication.
2. Aamodt, M.G. (2007) Industrial/Organizational Psychology: An Applied Approach (5th edition) Wadsworth/ Thompson: Belmont, C.A.
3. Aswathappa K. (2008). Human Resource Management (fifth edition) New Delhi: Tata McGraw Hill.
4. Robbins, S.P. & Sanghi, S. (2009). Organizational behavior (11thed.). New Delhi: Pearson Education.
5. Schultz, D. and Schultz, S. E. (2006). *Psychology and work today*. 8th ed. N.D.: Pearson Education.

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO249	Subject Title	Contemporary Economic Issues						
LTP	5 -1- 0	Credit	6	Subject Category	GE IV	Year	2 nd	Semester	IV

Course Objective:

- ☐ This course considers an array of leading contemporary economic problems, with specific topics chosen from current and recent policy debates in India.

UNIT 1: Political Alternatives and the Indian Polity (13 Lectures)

The Communist Challenges: Maoists and the Left Front; The Socialist Challenges: J.P. Movement and Total Revolution; The Feminist Challenges: Discourses and Ideologies of Women's Movement; Environmental Movements in India; Emergence and Transformation of the 'Dalit' in Indian Politics; Mandal and the Hindutva Challenge; The Politics of Secularism and communalism

UNIT 2: Contemporary Indian Economy (13 Lectures)

The nature of the colonial Legacy; Debates in the formative years, the Bombay Plan; Structure of the Indian economy at independence; Economic policies and the role of the state after Independence; Agrarian Policy, Land Reforms and Green Revolution; Industrial and Social Sector Policies

UNIT 3: Indian Economy in a Global Era (13 Lectures)

Rise of financial and service sectors; Global multilateral agencies and domestic economic policies; Shrinking of social welfare policies of the state; Agrarian distress and its impact

UNIT 4: Contemporary Indian Society and Economic Development (13 Lectures)

Defining the boundaries of the social and cultural realms; Status of different social groups; Folk, oral traditions and local knowledge systems; Caste, Class and Community; Social Reform Movements

UNIT 5: Theories of Indian Society (13 Lectures)

Principles of Welfare State and Society; Concept of Secularism and Composite Culture; Debates on Integration, Assimilation and Isolation; Cultural Pluralism and Cultural Nationalism; Debate on the nature of Tribal and Dalit identity in India

Learning Outcome

- ☐ To increase student's consciousness on historical perspectives of various issues and how these issues can be resolved through economic and social development in India.
- ☐ Enable to student to accept as a critical challenge to solve contemporary economic issues in India

Text book [TB]:

1. Aradhana Sharma and Akhil Gupta (ed) Anthropology of State: A Reader, Wiley Blackwell, 2006.
2. Bob Jessop, Bringing the State Back I, IPSA Conference, Quebec, 2000.

Reference books [RB]:

1. Robert Carbaugh. Contemporary Economics: An applications Approach. Routledge, 2013
2. William A. McEachern. Contemporary Economics. South Western Educational Publishing, 2004

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO256	Subject Title	Introduction to Research Methods						
LTP	5 -1- 0	Credit	6	Subject Category	GE IV	Year	2 nd	Semester	IV

Course Objective:

- ☐ To enable the students to have a strong idea on various techniques to analysis the primary and secondary data.
- ☐ To increase the understanding of students to undertake the research on various aspect of economic and social issues.
- ☐ The course also will also focus on how various research methods can be used to assess the impact of various socio-economic indicators in an economy.
- ☐ It would be helpful for students to write a review and scientific research articles.
- ☐ To enable the students demonstrate an awareness of their role in research and development.

UNIT 1: Introduction to research

(13Lectures)

Foundations- language, philosophy, conceptualization and evaluation of research

UNIT 2: Sampling

(13Lectures)

Sampling-probability and non-probability sampling; Measurement- construct validity and reliability; Survey research- types of surveys and interviews; Scaling- Thurston, Likert and Guttman scaling

UNIT 3: Measures for data analysis I

(13Lectures)

Qualitative Measures- data, approaches and validity, Design- Experimental and quasi-experimental, Quantitative Measures: Correlation and regression analysis (two variables and several variables)

UNIT 4: Measures for data analysis II

(13Lectures)

Analysis- data preparation, descriptive statistics, hypothesis testing, multivariate analysis (inferential statistics)

UNIT 5: Research Proposal writing

(13Lectures)

Writing: research proposal; review article; scientific research article; technical report

Learning Outcome

At the end of this course the students-

- ☐ CO 1 The students will be able to acquire a strong research background and knowledge of research methodology.
- ☐ CO2 The students will have an exposure to analysis the various types of data.
- ☐ CO3 The students will be able to understand how primary data can be collected at household's level.
- ☐ CO 4 The students will be familiar to write a scientific report and scientific research articles.

Text book[TB]:

1. C.R. Kothari, **Research Methodology: Methods and Techniques** (2nd edition), New Age International, 2009.
2. R.V. Hogg, A. Craig, and McKean. **Introduction to Mathematical Statistics** (6th Edition), Prentice Hall, 2004. (ISBN130085073)

Reference books [RB]:

1. W.T. Trochim, **Research Methods: The Concise Knowledge Base**, Atomic Dog Publisher, 2004. (ISBN: 1592601464)

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO306	Subject Title	International Economics						
LTP	5 1 0	Credit	6	Subject Category	UC	Year	3 rd	Semester	V

Course Objective:

- ☐ To enable the students to have a strong business background and knowledge of international relations, with which they can expect to succeed in the international world of business.
- ☐ To give an exposure to the students that how countries specialize in certain goods and services for comparative advantage over other countries and how this changes overtime.

UNIT 1: Introduction to International Economics (13 Lecture)

Trade theories and commercial policy: Theories of absolute advantage, comparative advantage and opportunity cost: Hecksher-Ohlin theory of trade-its main features, assumptions and limitations

UNIT 2: Balance of Trade and Balance of Payments and Exchange Rate (13 Lecture)

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

UNIT 3: International Monetary System and International Institutions (13 Lecture)

Bretton-wood systems and its breakdown, International liquidity Special drawing rights, IMF, World Bank, Asian Development Bank

UNIT 4: Rationale of Protection (13Lecture)

Tariff and non-tariff barriers to trade (Quota, voluntary export restraints, export subsidies, dumping and international cartel)

Unit 5: Economic Co-operation and Role of WTO (13 Lectures)

Economic Co-operation: Forms of Economic Co-operation, Static and Dynamic Effects of Custom Union (Viner, Lipsey) and Free trade Area, World Trade Organization: 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.

Learning Outcome

- ☐ The students will be able to acquire a strong business background and knowledge of international relations, with which they can expect to succeed in the international world of business.
- ☐ The students will have an exposure to, how countries specialize in certain goods and services for comparative advantage over other countries and how this changes overtime

Text book [TB]:

1. Kulkarni Kishore G. *Reading in International Economics*. 338.91(MB1600-DITU).
2. Tisdell Clen. *Globalisation and World Economic Policies*. 338.9 TISG(MB1606-DITU).

Reference books [RB]:

1. Salvatore D. *International Economics*. MB702-DITU)
2. Soderston (1991). *International Economics*.
3. Kindleberger C.P., Krugman Paul R. and Obstfeld. Maurice. *International Economics* (8thed.). Pearson Education.
4. Barry Eichengreen (2008). *Globalizing Capital: A History of the International Monetary System* (2nded.).

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO307	Subject Title	Econometrics						
LTP	5 1 0	Credit	6	Subject Category	UC	Year	3 rd	Semester	V

Course Objective:

- ☐ The course emphasizes the techniques for basic empirical research, interpretation of quantitative results and model evaluations.
- ☐ To develop the critical insight to appraise econometric results obtained by other researchers

UNIT1: Introduction

(13Lecture)

Definition, Scope, and Methodology of econometrics; Nature and sources of data for econometric analysis- Time Series, Cross-sectional and Panel Data; Specification of an econometric model Simple Regression Models: Estimators (OLS) and their properties; Statistical inference; Tests of significance and tests of restrictions

UNIT 2: Econometric Problems

(13 Lecture)

Nature, consequences, detection and remedial measures of the problems of multicollinearity, heteroscedasticity and autocorrelation

UNIT 3: Test Procedures and Model Selection

(13 Lecture)

Tests of specification and mis-specification, measurement errors, encompassing models, and criteria for model selection

UNIT 4: Dynamic Models

(13Lecture)

Lags in econometrics, Distributed and autoregressive lags, Koyck model, ARDL and ECM estimation

Unit 5: Simultaneous Equation Models

(13 Lectures)

Introduction, Identification problem, Simultaneous equation bias and 2SLS and 3SLS methods of estimation. Fixed effects model, Random effects model

Learning Outcome

- ☐ The students will have developed the necessary skills in developing and interpreting models as applied to a variety of economic problems and data.
- ☐ The students will develop skills to use econometric software in an effective manner.

Text book [TB]:

1. Gujarati D. N. and Porter D.C. (2009). *Essentials of Econometrics* (4thed.). McGraw Hill.
2. Christopher Dougherty (2007). *Introduction to Econometrics* (3rd ed.), Oxford University Press.

Reference books[RB]:

1. Johnston J and Nardo, D (1997). *Basic Econometrics* (4thed.). Singapore. McGraw Hills Co.
2. Maddala G S (1997). *Econometric Methods* (4thed.).
3. Pindyck R S and Rubinfeld D L (1998). *Econometric Models & Economic Forecasts*
4. Intriligator M J and Bodkin H (1996). *Econometric Models Techniques and Application*.
5. Green William (2000). *Econometric Analysis* (4thed.)
6. Goldberger A S (1998). *Introductory Econometrics*.

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO346	Subject Title	Agricultural Economics						
LTP	5 1 0	Credit	6	Subject Category	DSE I	Year	3rd	Semester	V

Course Objective:

- ☑ To understand the knowledge of nature and scope of agricultural economics.
- ☑ To enable the students to have different theories related to agricultural economics

UNIT 1: Role of Agriculture in Economic Development **(13 Lecture)** Nature and scope of agriculture economics; Role of agriculture in economic development; Linkage between agriculture and industry; Theories of agriculture development: Schultz, Mellor and Boserup; Fei- Renis model of agriculture development

UNIT 2: Economics of Agricultural Production, Cost and Price **(13 Lecture)** Resource use and efficiency in agriculture- Production function analysis- Factor combination and resource substitution; Cost and supply curves; Size of farm and laws of returns; Theoretical and empirical findings; Farm budgeting approach, Agricultural Price Policy; Agricultural markets and marketing efficiency – Marketing functions and costs. Market structure and imperfections; Regulated markets; Marketed and marketable surplus

UNIT 3: Indian Government Policy on Agriculture **(13 Lecture)** Role of agriculture in Indian economy; Regional variations in agriculture production and productivity in India; Agriculture credit and marketing policy in India; Crop insurance policy; Second green revolution, Issues and problems in rural industrialization and development of agro- based industries. Risk and uncertainty in agriculture – crop insurance and marketing policies – role of the state

UNIT 4: Recent Trends in Indian Agriculture **(13 Lecture)** Recent trends in agricultural growth in India. Inter – regional variations in growth of output and productivity; cropping pattern shifts; supply of inputs – irrigation, power, seed and fertilizers. Bio – technological practices and growth potential.

Unit 5: Political Economy of Indian Agriculture **(13 Lectures)** Political Economy of Indian Agriculture : Modes of production – Market interlocking and forced commerce – Methods of surplus extraction – State, community and household, Foreign Capital and Indian agriculture – Multinationals and international institutions. Issues relating to globalization of agricultural trade –WTO-AAO.

Learning Outcome

- The students will have an exposure to different theories which have connection with agricultural development.
- The students will demonstrate an awareness of production, cost and price of agricultural development.

Text book [TB]:

1. Bhalla G. S. (1994). Economic Liberalization and Indian Agriculture. Institute for Studies in Industrial Development, New Delhi.
2. Rudra A. Indian Agricultural Economics: Myths and Reality.

Reference books [RB]:

1. Bhaduri A. The Economic Structure of Backward Agriculture, Macmillan, Delhi.
2. Bilgrami S.A.R. Agricultural Economics, Himalaya Publishing House, New Delhi.
3. Dantwala M.L. (1991). Indian Agricultural Development since Independence (2nd ed.). Oxford & IBH Publishing Co.
4. Rao Hamumantha. Agricultural growth, rural poverty and environmental degradation in India. Oxford University Press, New Delhi.
5. Saini G.R. Farm size, resource use efficiency & Income distributions. Allied Publishers, New Delhi.
6. Chadha G.K and A.N.Sharma. Growth, Employment and Poverty: change and continuity in Rural India. Vikas Publishing House, New Delhi.

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO347	Subject Title	History of Economic Thought						
LTP	5 1 0	Credit	6	Subject Category	DSE I	Year	2019-20	Semester	V

Course Objective:

- ☐ The study of the course history of economic thoughts will create the understanding that the development of economic theory is the progress of ideas and debates.
- ☐ The course aims at explaining historical beginnings of economic theories, doctrines and postulates

UNIT 1: Mercantilism to Neoclassical Orthodoxy (13 Lecture)

Mercantilism; Laissez Faire: Quesnay and the Physiocrats; Adam Smith: invisible hand – accumulation and income distribution –value – market and competition – institutions; J S Mill: Synthesis of classical economics – Ricardo – Capital – wages; Neo classical orthodoxy: Alfred Marshall

UNIT 2: Economic Theory relating to Marx (13 Lecture) Marx:

Marxian economic theory: Exploitation and value – wages – trade cycle – capitalist movement – monetary aspects of crisis

UNIT 3: Marginalist Revolution and Equilibrium and Market Forms (13 Lecture)

Marginalist revolution: Neoclassical theoretical system and general economic equilibrium. High Theory: J M Keynes: the general theory; J A Schumpeter: equilibrium and development – trade cycle and money; Market forms: Sraffa – Chamberlin – Joan Robinson: contribution to the study of market forms.

UNIT 4: Indian Economic Thinker (13Lecture)

Mahatama Gandhi, Pandit Nehru, Dada Bhai Naroji, BR Ambedkar, VimalJalan, Manmohan Singh, Amartya Sen

Unit 5: Contemporary Developments (13 Lectures)

Contemporary developments: neoclassical synthesis in the age of stagflation: Samuelson – monetarist counter revolution: Milton Friedman – post Keynesian approach – New Keynesian Macroeconomics; New Welfare Economics and Economic Theories of Justice: fundamentals of welfare economics; Social Choice: Arrow; Theories of Justice and self-determination: Rawls and Kenneth Arrow.

Learning Outcome

- ☐ The course helps to acquire a comprehension of the evolution of economic ideas tracing to its philosophical roots.
- ☐ The students will get the knowledge of a variety of theoretical models and mechanisms and arguments about various schools of thought relating to economic ideas.

Text book [TB]:

1. Screpanti, Ernesto and Zamagni, Stefano (2006). An Outline of the History of Economic Thought (1sted.). Oxford University Press.

Reference books [RB]:

1. Gide Charles and Rist Charles (2007). A History of Economic Doctrines. Surjeet Publications.

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO348	Subject Title	Financial Economics						
LTP	5 1 0	Credit	6	Subject Category	DSE II	Year	3 rd	Semester	V

Course Objective:

- ☑ To increase the understanding of students on financial activities in era of globalization.
- ☑ To explore the role of finance in economic growth and development.

UNIT 1: Money and Capital Market (13 Lecture)

Indian Money Market: Meaning, Nature: Functions and Constituents of Indian Money Market - Money Market Instruments - Call Money-Treasury Bills - Certificates Of Deposits - Commercial Bills - Commercial Paper-Collateralized Borrowing and Lending Obligation (CBLO), Recent Trends In Indian Money Market. Capital Market-Primary and Secondary Markets, Financial Sector Reforms in India.

UNIT 2: Mutual Fund and Insurance (13 Lecture)

Mutual Fund – Evolution – Types – Advantages – Goals – Mutual Fund Industry – NAV – The Future Of Mutual Funds, **Insurance** – Insurance Companies - New Product Development – Reforms – Liberalization Of Insurance; IRDA – Economic Change – Insurance Revolution – Reform Proposals – Constitution Of IRDA – Objectives Of IRDA – Duties And Powers Of IRDA – New Regulations – Policy, Holders Interest – The Case For Interdependence – Banc Assurance In India

UNIT 3: Role of Time Value of Money in Finance (13 Lecture) Time

Value of Money: Simple and Compound, Uniform Series Compound Interest Formula, Present Worth Analysis, Future Worth Analysis, Future Value through Annuity, Rate of Return Analysis, Cash flow diagrams; Depreciation: Introduction, Straight Line and Declining Balance Method of Depreciation; Project Evaluation Techniques: Present Worth Method, Future Worth Method, Annual Worth Method; Benefit-Cost Analysis: Conventional and Modified B/C Ratio with PW method

UNIT4:Derivatives (13Lecture)

Meaning And Purpose Of Derivatives - Forward Contracts, Future Contracts, Options and Swaps - Type Of Traders - Trading Future Contracts - Specification Of The Future Contracts - Operation Of Margins - Settlement And Regulations

Unit 5: Foreign Exchange Markets (13Lectures)

Foreign exchange markets: Nature- organization and participants. Exchange rates-determination, Types and system, Determination of exchange rates Under fixed and flexible exchange rate regimes - Role of hedging in the determination of exchange rates

Learning Outcome

- Students will be able to understand the concept of money and capital market, their distinction, role, functions and current status in Indian Context.
- Students will also be able to know mutual fund, its evolution, types and advantages.

Text book [TB]:

1. Bhole L.M (2004). Financial Institutions and Markets: Structure, Growth and Innovations. Tata McGraw Hill Company Ltd., New Delhi.
2. Bhole L.M (1993). Indian Financial System. Chugh Publications, Allahabad.
3. Hull John C. (2005). Options, Futures and Other Derivatives (6thed.). Pearson Education.

Reference books [RB]:

1. Johnson H.J (1993). Financial Institutions and Markets. McGraw Hill, New York.
2. Machiraju M.R (2002). Indian Financial Systems. Vikas Publishing House, New Delhi.
3. Bhatt R.S. (1996). Unit Trust of India and Mutual Funds: A Study. UTI Institute of Markets, Mumbai.
4. Sahadevan K.G. and M.T. Thiripalraju (1997). Mutual Funds. Prentice Hall of India, New Delhi.
5. Goss B.A. and B.S. Yamey. The Economics of Futures Trading, Macmillan, London.
6. Niehans J. (1994). International Monetary Economics. John Hopkins University Press, New York.

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO349	Subject Title	Political Economy						
LTP	5 1 0	Credit	6	Subject Category	DSE II	Year	3 rd	Semester	V

Course Objective:

- ☐ To provide the knowledge of global political and economic issues.
- ☐ To provide an academic credential necessary for successful employment in era of globalization.
- ☐ To build linkages between academic learning and the applied political and economic policy communities in government, private sector and voluntary and non-governmental sectors.

UNIT 1: Introduction and Historical Overview (13 Lecture)

Perspective on political economy with a historical overview: capitalist development in the pre-second world war period, the golden age and later. Analysing social change in historical perspective: The method of historical materialism; the transition from feudalism to capitalism; capitalism as a historical process – alternative perspectives

UNIT 2: Changing Dynamics of Capitalist Production (13 Lecture)

Fordist and post-fordist production; changing dynamics of organisation of production, markets and labour process; the changing nature of job security and labour rights. Capitalism as an evolving economic system: Basic features; accumulation and crisis; the modern corporation; monopoly capitalism— alternative perspectives.

UNIT 3: The State in the Era of Globalization (13 Lecture)

Globalization and the limits of the welfare state, development and state autonomy; The State in Capitalism: The state and the economy – contestation and mutual interdependence; the state as an arena of conflict; imperialism – the basic foundations

UNIT 4: The Changing Role of Finance (13 Lecture)

The changing role of finance in capital accumulation and corporate structure; finance and globalization - financialisation, financial liberalization and financial crisis

UNIT 5: The Social Dimension and New Perspectives (13 Lectures)

Globalization and uneven development – growth, inequality and exclusion. Gender in work, accumulation and globalization; issues in environment and sustainability; alternatives ahead.

Learning Outcome

- ☐ It would be helpful for students to analyse the political policy and its influence on economic development.
- ☐ Students would be able to intellectual roots of economic liberalism.
- ☐ Student would be able to do empirical exercise on economic, political and public policies up to greater extent.

Text book [TB]:

1. Fran Tonkiss (2006). Contemporary Economic Sociology: Globalization, Production, Inequality (Chapter 4). Routledge.
2. G. Gereffi J. Humphrey and T. Sturgeon (2005). The Governance of Global Value Chains. *Review of International Political Economy*, 12:78–104.

Reference books [RB]:

1. Vamsi Vakulabharanam (2009). The Recent Crisis in Global Capitalism: Towards a Marxian Understanding. *Economic and Political Weekly*, 44:144-150.

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO308	Subject Title	Money & Banking						
LTP	5 1 0	Credit	6	Subject Category	UC	Year	3 rd	Semester	VI

Course Objective:

- This course exposes students to the theory and functioning of the monetary and financial sectors of the economy.
- The course enables students to learn structure and role of financial markets and institutions.

UNIT 1: Money Supply and its Function

(13 Lecture)

Money: Concept, functions, measurement; theories of money supply determination

UNIT 2: Concept of Financial Market and Institutions

(13 Lecture)

Financial Institutions, Markets, Instruments and Financial Innovations: a. Role of financial markets and institutions; problem of asymmetric information – adverse selection and moral hazard; financial crises.

b. Money and capital markets: organization, structure and reforms in India; role of financial derivatives and other innovations

UNIT 3: Interest Rate and Non-financial organizations in India

(13 Lecture)

Interest rates in India, Non-financial organizations-Objective, aims, roles and structure; various forms of NFOs and NFIs in India, Role of NFIs in Indian economy

UNIT 4: Structure of Banking System in India

(13 Lecture)

Introduction SCBs and central banks and their role and functions, Balance sheet and portfolio management, Indian banking system: Changing role and structure; banking sector reforms

UNIT 5: Central Banking and Monetary Policy

(13 Lectures)

Functions, balance sheet; goals, targets, indicators and instruments of monetary control, Inflation and its consequences and measurement, Monetary management in an open economy; current monetary policy of India

Learning Outcome

- The students will be able to discuss the recent performance of financial markets and government intervention strategies in light of economic theory.
- Examine the nature of money, definitions of the money supply and different approaches to determining how the money supply is created.

Text book [TB]:

1. Khan M. Y. (2011). *Indian Financial System* (7thed.). Tata McGraw Hill.
2. Bhole L. M. and Mahukud J. (2011). *Financial Institutions and Markets* (5thed.). Tata McGraw Hill.

Reference books [RB]:

1. Mishkin F. S. and Eakins S. G. (2009). *Financial Markets and Institutions* (6thed.). Pearson Education.
2. Fabozzi F. J., Modigliani F., Jones F. J. and Ferri M. G. (2009). *Foundations of Financial Markets and Institutions* (3rded.). Pearson Education.
3. Various latest issues of R.B.I. Bulletins, Annual Reports, Reports on Currency and Finance and Reports of the Working Group, IMF Staff Paper.

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO309	Subject Title	Public Finance						
LTP	5 1 0	Credit	6	Subject Category	UC	Year	3 rd	Semester	VI

Course Objective:

- ☐ The Course provides understanding of government policy from the points of view of economic efficiency and equity.
- ☐ The paper deals with the nature of government intervention and its implications for allocation, distribution and stabilization.

UNIT 1: Public Finance and Public Goods (13 Lecture)

Meaning and scope of public finance, public finance vs. private finance, fiscal functions-allocation, distribution and stabilization role of government, public goods - pure and partial public goods, private goods and merit goods, characteristics of public goods, rationale of public provision of public goods, free rider problem, voluntary exchange theory and Samuelson's theory of public goods

UNIT 2: Externalities and Govt. Policies (13 Lecture)

Definition and types of externalities, Externalities and efficiency, Internalization of externalities: corrective taxes and subsidies, Coase theorem, significance of Coase theorem, application of Coase theorem and pollution rights

UNIT 3: Public Revenue (13 Lecture)

Tax and non-tax revenue, direct and indirect taxes, effects of tax on production, distribution and economic activities. Principles of taxation – Benefit theory, Ability to pay theory, Burden of taxation: Neutrality in taxation, shifting and incidence of taxation, allocative and equity aspect of taxation.

UNIT 4: Indian Public Finance-I (13 Lecture)

Features of Indian tax system, tax revenues of the central and state governments, direct and indirect taxes levied by the state and centre, changing tax structure of India, Tax reforms since 1991: Chelliah Committee, Kelkar Committee reports, DTC, VAT and GST

UNIT 5: Indian Public Finance-II (13 Lectures)

Budgetary trend in India, trend of receipts and expenditures of Central Govt., Types of deficits: budgetary deficit, fiscal deficit, revenue deficit and primary deficit, Public debt: problems and issues, Fiscal federalism in India: Transfer of resources from centre to state-trends and techniques, an evaluation of finance commission awards and federal financing, suggestions to improve the federal finance relation in India.

Learning Outcome

- ☐ Student should be able to know the government taxation, expenditures pattern, public goods, market failures and externalities.
- ☐ Students should be able to acquire the knowledge about government policy and revenue structure of country.

Text book [TB]:

1. Musgrave R.A. The Theory of Public Finance, McGraw Hill.
2. Ghosh Ambar and Ghosh Chandana. *Economics of the Public Sector*. PHI

Reference books [RB]:

1. Herber B. P. Modern Public Finance.
2. Due, John F and Friedlander. Government Finance.
3. Goode R. Government Finance in Developing Countries. Tata McGraw Hill.
4. Houghton J. M. The Public Finance: Selected Reading. Penguin
5. Mathew T. Economics of Public Expenditure. Vora

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO356	Subject Title	Environmental Economics						
LTP	5 1 0	Credit	6	Subject Category	DSE III	Year	3 rd	Semester	VI

Course Objective:

- ☐ This course will introduce students to be aware of the meaning and nature of environmental economics.
- ☐ The course also enables students to understand both the positive and normative aspects of environmental economics.

UNIT 1: Environmental Economics - its Nature and Scope (13 Lecture)

Nature and scope of environmental economics - Natural resource economics and ecological economics - Current state of the environment - Use of economics to analyse environmental issues

UNIT 2: Principles of Environmental and Resource Economics (13 Lecture)

Welfare Economics – Sustainability – Efficiency - benefit-cost analysis - Alternative approaches to evaluate environmental policies - Externalities and Property Rights - Coase theorem and theories on it

UNIT 3: Controlling Pollution (13Lecture)

Pigouvian fees - Regulation - Government intervention - Advantages and disadvantages of a command and control approach - Efficiency and Cost-effectiveness of regulations - Marketable Permits: the theoretical basis for a marketable permit approach; practical challenges in using marketable permits

UNIT 4: Green Accounting (13Lecture)

Green Accounting - Use of permits to reduce greenhouse gas emissions - Regulation under Uncertainty - Effectiveness of regulation under imperfect information - Monitoring and enforcement of pollution levels - Risk - incorporation of risk and uncertainty into models.

UNIT 5: Economic Valuation (13Lectures)

Introduction - Valuation of the environment, what is value of ecosystem services, role of ecosystem services in economic development, Market and Non-Market valuation (Contingent Valuation Methods, Travel Cost Method, Willingness to Pay), Few cases on valuation of ecosystem services of water, soil, and forestry

Learning Outcome

- ☐ The students will have an idea of both the positive and normative aspects of environmental economics.
- ☐ The students will also be able to measure the different approaches and technique of controlling pollution.

Text book [TB]:

1. Kolstad Charles D. (2000). Environmental Economics. New York, New York: Oxford University Press.
2. Shogren and White (2007). Environmental Economics. MacMillan.

Reference books [RB]:

1. Easton Thomas A. (2007). Taking Sides: Clashing Views on Controversial Environmental Issues (12thed.). McGraw Hill.
2. Goldfarb Theodore D. (2001). Taking Sides: Clashing Views on Controversial Environmental Issues (9thed.). McGraw Hill/Dushkin.
3. Matthew E. (2006). Green Cities: Urban Growth and the Environment. Washington, D.C. Brookings Institution Press.
4. Pindyck Robert S. and Daniel L. Rubinfeld (2005). Microeconomics (6thed.). Pearson/Prentice Hall.
5. Pizer William A. and Raymond Kopp (2003). Calculating the Costs of Environmental Regulation. Resources for the Future, Discussion Paper03-06.

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO357	Subject Title	Labor Economics						
LTP	5 1 0	Credit	6	Subject Category	DSE III	Year	3 rd	Semester	VI

Course Objective:

- ☐ To acquire knowledge about nature, Scope and Importance of Labour and Labour Market.
- ☐ This course focuses on the wage determination, migration, and industrial relations in developing countries like India.

UNIT1: Introduction

(13Lecture)

Meaning- Concept, Significance and Peculiarities of Labour. Nature, Scope and Importance of Labour Economics. Characteristics of Indian Labour Market

UNIT 2: Wage Determination

(13Lecture)

Marginal Productivity Theory, Theory of Collective Bargaining, Modern Theory of Wages. Minimum Wage and Fair Wage. Wage Determination in – Organised- Unorganised Sector

UNIT 3: Migration and Absenteeism

(13 Lecture)

Approaches to Labour Migration trends & effects of Migration. Absenteeism in Industrial Labour in India, causes, effects and remedies. Labour turnover - Trends in Labour Turnover in India

UNIT 4: Industrial Relations

(13Lecture)

Labour Unions in India- Growth, Pattern, Structure and Achievements of Labour Union in India. Causes of Industrial Disputes and their settlement and preventive mechanism, Current trends in Collective Bargaining, Social Security Measures

UNIT 5: Labour Market reforms

(13Lectures)

Child Labour Policy in India, Problems and Policy of Female Workers in India, Labour Relations in India, Contract Labour

Learning Outcome

- ☐ The students should be able to acquire knowledge about wage determination especially organized and un-organized sector.
- ☐ The students will develop the knowledge about labour migration, labour market reform and industrial relations.

Text book [TB]:

1. Datt G (1996). Bargaining Power, Wages and Employment: An Analysis of Agricultural, Labour: Markets in India. Sage Publications, New Delhi.
2. Hajela P.D. (1998). Labour Restricting in India: A Critique of the New Economic Policies. Common wealth Publishers, New Delhi.

Reference books [RB]:

1. Jhabvala R. and Subrahmanya R.K. (2000). The Unorganised Sector: Work Security and Social Protection. Sage Publications, New Delhi.
2. Lester R.A. (1964). Economics of Labour (2nded.). Macmillan, New York.
3. McConnell C.R. And Brue S.L. (1986). Contemporary Labour Economics. McGraw-Hill, New York.
4. Rosenberg M.R. (1988). Labour Markets in Low Income Countries in Chenery.
5. Srinivasan T.N. The Handbook of Development Economics North Holland, New York

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO358	Subject Title	Economics of Health and Education						
LTP	5 1 0	Credit	6	Subject Category	DSE IV	Year	3rd	Semester	VI

Course Objective:

- ☐ To provide importance of health and education and its impact on economic and social development.
- ☐ It would also give the concrete overview of health and education in India.

UNIT 1: Role of Health and Education in Human Development (13 Lecture)

Importance in poverty alleviation; health and education outcomes and their relationship with macroeconomic performance. Prime indicators of health and education, interaction and association of health and education related indicators, measurement of health and education at micro to macro level

UNIT 2: Microeconomic Foundations of Health Economics (13Lecture)

Demand for health; uncertainty and health insurance market; alternative insurance mechanisms. Market failure and rationale for public intervention; equity and inequality

UNIT 3: Evaluation of Health Programs (13 Lecture)

Costing, cost effectiveness and cost-benefit analysis; burden of disease. Alternative measurement of progress of health programs at individual level, index based estimation of health programs at micro to macro level

UNIT 4: Health Sector in India: An Overview (13Lecture)

Health outcomes; health systems; health financing.

UNIT 5: Education: Investment in human Capital (13 Lectures)

Rate of return to education: private and social; quality of education; signaling or human capital; theories of discrimination; gender and caste discrimination in India. Education Sector in India: An Overview: Literacy rates, school participation, school quality measures.

Learning Outcome

- ☐ Students will be able to understand the role of education and health in sustainable development.
- ☐ Students will be logically thinker to formulate a micro level policies to enhance the education and health level at greater extent.

Text book [TB]:

1. William Jack (1999). *Principles of Health Economics for Developing Countries*. World 24 Bank Institute Development Studies.
2. Ronald G., Ehrenberg and Robert S., Smith, (2005). *Modern Labor Economics: Theory and Public Policy*, Addison Wesley

Reference books [RB]:

Annual World Development Report (1993). *Investing in Health*. The World Bank.

Course Structure & Syllabus of B.A. (Hons.)- Economics

Applicable for Batch: 2017-2020

Subject Code	ECO359	Subject Title	Comparative Economic Development						
LTP	5 1 0	Credit	6	Subject Category	DSE IV	Year	3 rd	Semester	VI

Course Objective:

- ☐ To provide the knowledge to the students on comparative economic development.
- ☐ The objective of this course is to make a comparative study of the economic development among the developed countries

UNIT 1: Introduction and Perspectives on Economic Development (13

Lecture) Perspectives of comparative economic development, Features of and trend in modern economic growth in India and other developed and developing economies, A brief discussion on Kuznet's curve and its findings, Implications of Kuznets' curve in developed and developing economies; Criticism of Kuznet's curve; Gerschenkron's hypothesis of economic development in historical perspective

UNIT 2: An Overview of Economic Development of The Selected Countries (13

Lecture) An overview of economic development of the selected economies: India, Britain, USA, China, South Korea and Japan, Structural Transformation: Change in the structure of agriculture and economic development, agricultural revolution in Britain, Phase of Industrial growth in Britain, Marshal Plan and Industrial Growth in USA and India

UNIT 3: Development of Agriculture Sector (13

Lecture) Role of agriculture in Brazil, China, South Korea, USA and India; Future possibilities in agriculture for China, USA and India, Foreign Trade and Economic Development: Brazil, Japan, South Korea, USA and India; Role of state in economic development (regulatory and development role): China, Brazil, South Korea, USA and India

UNIT 4: Development in Industrial Sector (13

Lecture) The industrial revolution in Britain; Industrialization in late industrializers; Role of the state in industrial and development transition; Industrial development in India

UNIT 5: Factory System and Making of Industrial Working Class (13

Lectures) Division of labour, structure of industrial authority, organisation of work and industrial production, relationship between workers and managers, Industrial working condition in China, Japan, South Korea, USA and India

Learning Outcome

- ☐ The student will be able to know about the role of the state in economic development.
- ☐ Students will get to know about the role of the state in economic development.

Text book [TB]:

1. Angus Maddison (1991). *Dynamic Forces in Capitalist Development, A Long-Run Comparative View*. Oxford University Press.

Reference books [RB]:

1. Kenneth Pomeranz (2000). *The great divergence: Europe, China, and the Making of the modern World Economy*. Princeton University Press.
2. Nakamura T. (1983). *Economic Growth in Pre-War Japan*. Yale University Press.
3. Timothy W. Guinnane (2002). Delegated Monitors, Large and Small: Germany's banking System, 1800 –1914. *Journal of Economic Literature*, Volume,40:73-124.
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