

Program Structure for the B.A. (Hons.) Economics

	Semester-I			Semester-II		
	Course #	Course Title	Units	Course #	Course Title	Units
First Year	BEC11	Introductory Microeconomics	3	BEC 21	Introductory Macroeconomics	3
	BEC 12	Mathematical Methods for Economics-I	3	BEC 22	Mathematical Methods for Economics-II	3
	BEC 13	Fundamentals of Computers	3	BEC 23	Computer Skills for Economic Analysis	3
	BEC 14	Economic History of India	3	BEC 24	Development Economics	3
	BEC 15	Environmental Economics	3	BEC 25	Environmental Studies	3
	BEC 16	English Language	3	BEC 26	Soft Skills – I	3
	Summer Internship Program					
Second Year	BEC 31	Microeconomics-I	3	BEC 41	Microeconomics-II	3
	BEC 32	Macroeconomics-I	3	BEC 42	Macroeconomics-II	3
	BEC 33	Statistical Methods for Economics	3	BEC 43	Introductory Econometrics - I	3
	BEC 34	Industrial Economics	3	BEC 44	Public Economics	3
	BEC 35	Agricultural Economics	3	BEC 45	International Economics	3
	BEC 36	Soft Skills - II	3	BEC 46	Soft Skills - III	3
Third Year	BEC 51	Indian Tax System/GST	3	BEC 61	Monetary Economics	3
	BEC 52	Introductory Econometrics - II	3	BEC 62	Economics of Health & Education	3

		SIP: Report, Presentation and Viva- Voce	5		Dissertation/Project	3
		Elective - I	3		Elective - I	3
		Elective - II	3		Elective - II	3
	BEC 53	Soft Skills-IV	3	BEC63	Soft skills-V	3

Elective Courses

Semester V		Semester VI	
BEC 54	Political Economy	BEC 64	Labour Economics
BEC 55	Money and Banking	BEC 65	Demography
BEC 56	Financial Economics	BEC 66	History of Economic Thought

Course: Introductory Microeconomics			Semester: I
Course Code: BEC11	L T P	4 0 0	Credits: 3

Objective: This course is designed to expose the students to the basic principles of micro economic theory. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations.

Reference Books	Author/Publication
Advanced Economic Theory: Microeconomic Analysis.	Ahuja H.L. (2003), 13th Edition, S. Chand and Company Ltd. New Delhi
Principles of Economics	Case, Karl E., Ray C. Fair and Sharon E. Oster (2013)
Modern Microeconomics	Koutsoyiannis, A. (1990), Macmillan Press Ltd., London
Microeconomic Theory	Layard, P.R.G. and A. W. Walters (1978), McGraw Hill, New York
Principles of Economics	Lipsey, R.G. and K.A. Chrystal (2004), 9th Edition, Oxford University Press, New Delhi.

Syllabus

1. Exploring the subject matter of Economics

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

2. Supply and Demand: How Markets Work, Markets and Welfare

Markets and competition; determinants of individual demand/supply; demand/supply schedule and demand/supply curve; market versus individual demand/supply; shifts in the demand/supply curve, demand and supply together; how prices allocate resources; elasticity and its application; controls on prices; taxes and the costs of taxation; consumer surplus; producer surplus and the efficiency of the markets.

3. The Households

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

4. The Firm and Perfect Market Structure

Behaviour of profit maximizing firms and the production process; short run costs and output decisions; costs and output in the long run.

5. Imperfect Market Structure

Monopoly and anti-trust policy; government policies towards competition; imperfect competition.

6. Input Markets

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

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Exploring the subject matter of Economics	7
Supply and Demand: How Markets Work, Markets and Welfare	10

The Households	5
POST-MID SEM	
The Firm and Perfect Market Structure	8
Imperfect Market Structure	8
Input Markets	6

Course: Mathematical Methods for Economists-I			Semester: I
Course Code: BEC 12	L T P	4 0 0	Credits: 3

Objective: The objective of this sequence is 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.

Reference Books	Author/Publication
Mathematics for Economic Analysis	K. Sydsaeter and P. Hammond, Pearson Educational Asia: Delhi, 2002.

Syllabus

Preliminaries

Logic and proof techniques; sets and set operations; relations; functions and their properties; number systems.

Functions of one real variable

Graphs; elementary types of functions: quadratic, polynomial, power, exponential, logarithmic; sequences and series: convergence, algebraic properties and applications; continuous functions: characterizations, properties with respect to various operations and applications; differentiable functions: characterizations, properties with respect to various operations and applications; second and higher order derivatives: properties and applications.

Single-variable optimization

Geometric properties of functions: convex functions, their characterizations and applications; local and global optima: geometric characterizations, characterizations using calculus and applications.

Integration of functions

Difference equations

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Preliminaries	8
Functions of one real variable	8
Single-variable optimization	6
POST-MID SEM	
Integration of functions	11
Difference equations	11

Course: Fundamental of Computers			Semester: I
Course Code: BEC13	L T P	4 0 0	Credits: 3

Objective: This course provides basic knowledge of MS-word, MS-Excel and MS-Power Point.

Reference Books	Author/Publication
Fundamentals of Computers	V. Rajaraman, Prentice Hall (Ind.) New Delhi.
Theory and Problems of Data Processing	Lipschutz, M.M. & Lipschutz, S, Schaum's Outline series
Computers today	Sanders, D.H: McGraw Hill, New York.
Computer Fundamentals	Sinha: BPB Publications, New York.
Essentials of Microsoft windows, Word and Excel	Kerns: Prentice Hall of India, New Delhi

Syllabus

Use of Computer for Office Automation: Text editors and word processor software packages; Operative familiarization with any one package like MS-word -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'.

MS-Excel: Excel basic: 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.

MS-Power Point: 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.

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

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Use of Computer for Office Automation	8
MS-word	8
MS-Excel	6
POST-MID SEM	
MS-Power Point	11
Graphics	11

Course: Economic History of India			Semester: I
Course Code: BEC14	L T P	4 0 0	Credits: 3

Objective: This course analyses key aspects of Indian economic development during the second half of British colonial rule. In doing so, it investigates the place of the Indian economy in the wider colonial context, and the mechanisms that linked economic development in India to the compulsions of colonial rule. This course links directly to the course on India's economic development after independence in 1947.

Reference Books	Author/Publication
History of India 1707-1857	Lakshmi Subramanian, "Orient Blackswan, 2010.
Indian Economy 1858-1914	Irfan Habib, A People's History of India, Vol.28, Tulika, 2006.

Syllabus

Introduction: Colonial India: Background and Introduction

Overview of colonial economy.

Macro Trends

National Income; population; occupational structure.

Agriculture

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

Railways and Industry

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

Economy and State in the Imperial Context

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

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Introduction: Colonial India: Background and Introduction	8
Macro Trends	8
Agriculture	6
POST-MID SEM	
Railways and Industry	11
Economy and State in the Imperial Context	11

Course: Environmental Economics			Semester: I
Course Code: BEC15	L T P	4 0 0	Credits: 3

Objective: This course focuses on economic causes of environmental problems. In particular, economic principles are applied to environmental questions and their management through various economic institutions, economic incentives and other instruments and policies. Economic implications of environmental policy are also addressed as well as valuation of environmental quality, quantification of environmental damages, tools for evaluation of environmental projects such as cost-benefit analysis and environmental impact assessments. Selected topics on international environmental problems are also discussed.

Reference Books	Author/Publication
Intermediate Environmental Economics	Charles Kolstad, Oxford University Press, 2 nd edition, 2010.
Economics of the Environment	Robert N. Stavins (ed.), Selected Readings, W.W. Norton, 5 th edition, 2005.
Environmental Economics	Maureen L. Cropper and Wallace E. Oates, 1992

Syllabus

1. Introduction

What is environmental economics; review of microeconomics and welfare economics.

2. The Theory of Externalities

Pareto optimality and market failure in the presence of externalities; property rights and the coase theorem.

3. The Design and Implementation of Environmental Policy

Overview; pigouvian taxes and effluent fees; tradable permits; choice between taxes and quotas under uncertainty; implementation of environmental policy.

4. International Environmental Problems

Trans-boundary environmental problems; economics of climate change; trade and environment.

5. Measuring the Benefits of Environmental Improvements

Non-Market values and measurement methods; risk assessment and perception.

6. Sustainable Development

Concepts; measurement.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Introduction	8
The Theory of Externalities	8
The Design and Implementation of Environmental Policy	6
POST-MID SEM	
International Environmental Problems	8
Measuring the Benefits of Environmental Improvements	8
Sustainable Development	6

Course: English Language			Semester: I
Course Code: BEC16	L T P	4 0 0	Credits: 3

Objective: This subject provides knowledge about writing reports, proposals and minutes etc. It will help in enhancing writing and presentation skills.

Reference Books	Author/Publication

Syllabus

Business Correspondence: Principles of Effective Writing; Letter Writing; CVs and Applications; Memoranda; Business Claims and Responses; Business Proposals; Meetings,

Agenda and Minutes.

Report Writing: Process, Structure and Layout.

Presentation Skills: Planning, Structure and Delivery.

Telephone & E-mail Etiquette: Basics of Telephone and E-mail Etiquette.

Cross-Cultural Communication: Cross-cultural issues which affect Communication across different Cultures.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Business Correspondence	8
Report Writing	8
Presentation Skills	6
POST-MID SEM	
Telephone & E-mail Etiquette	11
Cross-Cultural Communication	11

Course: Introductory Macroeconomics			Semester: II
Course Code: BEC21	L T P	4 0 0	Credits: 3

Objective: This course aims to introduce the students to the basic concepts of Macroeconomics. 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.

Reference Books	Author/Publication
Macroeconomics	Dornbusch, Fischer and Startz, McGraw Hill, 11 th edition, 2010.
Macroeconomics	N. Gregory Mankiw. Worth Publishers, 7 th edition, 2010.

International Economics	Paul R. Krugman, Maurice Obstfeld and Marc Melitz, , Pearson Education Asia, 9 th edition, 2012.
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Syllabus

1. Introduction to Macroeconomics and National Income Accounting

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

2. Money

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

3. Inflation

Inflation and its social costs; hyperinflation.

4. The Closed Economy in the Short Run

Classical and Keynesian systems; simple Keynesian model of income determination; IS-LM model; fiscal and monetary multipliers.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Introduction to Macroeconomics and National Income Accounting	11
Money	11
POST-MID SEM	
Inflation	11
The Closed Economy in the Short Run	11

Course:	Mathematical Methods for Economics-II	Semester: II
Course Code: BEC22	L T P	4 0 0
		Credits: 3

Objective: The objective of this sequence is 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.

Reference Books	Author/Publication
Mathematics for Economic Analysis	K. Sydsaeter and P. Hammond, , Pearson educational Asia: Delhi, 2002.

Syllabus

1. Differential equations

2. Linear algebra

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

3. Functions of several real variables

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

4. Multi-variable optimization

Convex sets; geometric properties of functions: convex functions, their characterizations, properties and applications; further geometric properties of functions: quasiconvex functions, their characterizations, properties and applications; unconstrained optimization: geometric characterizations, characterizations using calculus and applications; constrained optimization with equality constraints: geometric characterizations, lagrange characterization using calculus and applications; properties of value function: envelope theorem and applications.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Differential equations	11
Linear algebra	11
POST-MID SEM	
Functions of several real variables	11

Multi-variable optimization	11
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Course: Computer Skills for Economic Analysis			Semester: II
Course Code: BEC23	L T P	4 0 0	Credits: 3

Reference Books	Author/Publication
Business Communication Today	Bovee, and Thill, Pearson Education
Business Communication: Building Critical Skills	Locker and Kaczmarek, TMH

Syllabus

SPSS and E-views Basics: 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.

Statistics-I : Bivariate Data: Scatter Diagram, principle of least square and fitting of polynomial and exponential curves, regression, coefficient of determination, lines of regression, auto-regression; Correlation and auto-correlation; Covariance and Auto covariance.

Statistics-II: Hypothesis testing: Simple, composite, null, and alternate hypotheses, level of significance, tests of significance based on chi-square, t and F statistics, confidence intervals, confidence intervals for mean and variance of the normal population, confidence interval for proportions.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
SPSS and E-views Basics	11
Statistics-I	11
POST-MID SEM	

Statistics-II	22
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Course: Development Economics			Semester: II
Course Code: BEC24	L T P	4 0 0	Credits: 3

Objective: The course begins with a discussion of alternative conceptions of development and their justification. It then proceeds to aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models. The axiomatic basis for inequality measurement is used to develop measures of inequality and connections between growth and inequality are explored. The course ends by linking political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.

Reference Books	Author/Publication
Understanding Poverty	Abhijit Banerjee, Roland Benabou and Dilip Mookerjee, Oxford University Press, 2006.
Development Economics	Debraj Ray, Oxford University Press, 2009.
The Oxford Companion to Economics in India	Kaushik Basu, OUP, 2007.

Syllabus

1. Conceptions of Development

Alternative measures of development, documenting the international variation in these measures, comparing development trajectories across nations and within them.

2. Growth Models and Empirics

The Harrod-Domar model, the Solow model and its variants, endogenous growth models and evidence on the determinants of growth.

3. Poverty and Inequality: Definitions, Measures and Mechanisms

Inequality axioms; a comparison of commonly used inequality measures; connections between inequality and development; poverty measurement; characteristics of the poor; mechanisms that generate poverty traps and path dependence of growth processes.

4. Political Institutions and the Functioning of the State

The determinants of democracy; alternative institutional trajectories and their relationship with economic performance; within-country differences in the functioning of state institutions; state

ownership and regulation; government failures and corruption.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Conceptions of Development	11
Growth Models and Empirics	11
POST-MID SEM	
Poverty and Inequality: Definitions, Measures and Mechanisms	11
Political Institutions and the Functioning of the State	11

Course: Environmental Studies			Semester: II
Course Code: BEC25	L T P	4 0 0	Credits: 3

Objective: The scope of this course is to aware the students environmental related issues. Measures to control pollution, population issues.

Reference Books	Author/Publication
Earth as a Living Planet	Daniel B. Botkin, Edward A. Keller, Hardcover, Publisher: Wiley
Environmental Science: Toward A Sustainable Future	(8th Edition) by Richard T. Wright, Bernard J. Nebel, Hardcover: Publisher: Prentice Hall

Syllabus

The Multi-disciplinary Nature of Environmental studies: Definition, scope and importance: Need for public awareness.

Natural Resources: Renewal and non-renewable resources: Natural Resources and associated problems. (a) Forest resources: Use and over-exploitation, deforestation, mining and their effects on forest and tribal people. (b) Water resources: Use and over-utilization of surface and

ground water, floods, drought, conflicts over water, benefits and problems. (c) Mineral resources: Use and exploitation, environmental effects of extracting and using minerals resources. (d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems. (e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. (f) Land resource: Land as a resource, land degradation, soil erosion and desertification. Conservation of natural resources equitable use of resources for sustainable Development

Ecosystem Concept of an ecosystem :Structure and function of an ecosystem Producers, consumers and decomposers Energy flow in the ecosystem Food chains, food webs and ecological pyramids Introduction, types, characteristics features, structure and function of the following ecosystems: a. Forest ecosystem b. Desert ecosystem c. Aquatic ecosystem(Ponds, streams, lakes, rivers, oceans, estuaries)

Biodiversity and its conservation Introduction- Definition: Genetics, species and ecosystem diversity. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values. Biodiversity at global national and local levels. Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts. Important Endangered and endemic species of India

Environmental Pollution: Definition: Causes, effects and control measures of: a. Air Pollution b. Water Pollution; c. Soil Pollution; d. Noise Pollution; e. Thermal Pollution; f. Nuclear hazards Solid waste management: Causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution Role of NGOs.

Legal Issue and the Environment Socio-Urban problems related to energy: Water conservation, rain water harvesting, watershed management Resettlement and rehabilitation of people: its problem and concerns. Environmental ethics: Issues and possible solution Climatic change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust Environment Protection Act. Air (prevention and Control of Pollution) Act/Bare knowledge of Basic Salient provisions. Water (Prevention and control of pollution) Act. Wild life protection Act Forest conservation Act Public awareness and rule of NGOs and civil society role of UN.

Human Population and the Environment: Population growth, variation among nations Population explosion family welfare programme Environment and human health Human Rights Value Education Women and Child Welfare Note: The Examination question paper may be from all seven units and students may be given choice to attend any five units.

Scheduled of Sessions

Topic	Sessions
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PRE-MID SEM	
The Multi-disciplinary Nature of Environmental studies	6
Natural Resources	6
Ecosystem Concept of an ecosystem	6
Biodiversity and its conservation Introduction	4
POST-MID SEM	
Environmental Pollution: Definition	8
Legal Issue and the Environment Socio-Urban problems related to energy	8
Human Population and the Environment	6

Course: Soft Skills-I			Semester: II
Course Code: BEC26	L T P	4 0 0	Credits: 3

Objective: Understanding the phonetics and developing the reading and listening skills. Knowledge regarding the usage of words differentiates synonymic words and preparation of business letters.

Reference Books	Author/Publication

Syllabus

English Sound System: Identify the spelling of the word and its sounds – Know that one sound stands for different spellings – Know that letter(s) stand(s) for different sounds – Know the consonant sounds and vowel sounds – Be aware of the articulation of in flexional suffixes- Be aware of the articulation of some common suffixes.

Syllable Division: Practice Exercises.

Silent Letters: Identify the silent letters- Pronounce the words correctly- Spell the words correctly.

Dictionary: Its Use: Know the various uses of dictionary- Be aware of the various methods for clarifying the meaning of a word – Write compound words correctly- Know the pronunciation of a word and variant pronunciation of a word – Compare synonymic words and use them effectively – Know the grammatical aspects of a word – Identify idiomatic phrases, phrasal verbs, colloquial usage, and informal usage.

Vocabulary Extension: Identify finer shades of meaning with accuracy and precision – Reduce possible errors of spellings and usage – Learn the usage of words – Differentiate synonymic words- Know the principles for the formation of antonyms – Know the word formation methods – Analyze the word in terms of prefix and suffix to infer the meaning of the word.

Prepositional Phrases: Use language idiomatically – Use language precisely and naturally – Use correct preposition after a verb, adjective and noun depending on the meaning – Convey the message clearly.

Phrasal Verbs: Identify the phrasal verbs- Know the various types of phrasal verbs- Use the phrasal verbs effectively.

Reading Skill: Relate spellings to sounds- Develop the skill of word-analysis – Enrich the vocabulary – Aware the sentence structure and composition of paragraphs – Read the sense groups rather than individual words- Avoid the undesirable reading habits – Know the traits of reading – Know the major types of reading depending upon the purpose of reading- Read at different speeds from 150-450 words per minute to suite different purposes.

Listening Skill: Know the importance of listening skill- Differentiate between the listening and hearing – Identify the various purposes of listening – Identify the barriers to listening- Know how to overcome listening barriers.

Effective Use of Words: Use words effectively- Identify vague words- Identify redundancy – Use concrete word- Avoid clichés.

Sentence Variety: Avoiding monotonous style- Monotonous style – Varied style – Avoiding “stringy” style.

Sentence Conciseness: Superfluous words and unnecessary repetition -Conciseness through reduction- The Overwritten style –Harbor Fog.

Unnecessary Shifts in Sentences:

Parallel Structure: Kinds of Parallel Structure- Completed Parallelism-Incomplete Parallelism

Placement of Modifiers: Misplaced Modifiers – Dangling Modifiers – Two-Way Modifiers.

Clear Reference: Ambiguous Reference- General Reference- Weak Reference- Indefinite use of pronouns.

Co-ordination and Subordination: Co-ordinate Ideas – Main and Subordinate Ideas.

Business Correspondence: Know various types of business letters- Identify the essential points of each type of letter- Focus on opening and closing of the business letter - Write an effective business letter.

Structure of Business Letters: Know the various elements of a letter- Learn how to prepare the various elements of a letter – Differentiate the compulsory and optional elements of the structure of a letter- Know about the layout of a letter- Know various styles of presentation of the matter of a letter, such as: Indented style, Semi-block style, Block style and Full –block style.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
English Sound System	2
Silent Letters	3
Dictionary: Its Use	3
Vocabulary Extension	2
Prepositional Phrases	2
Phrasal Verbs	2
Reading Skill	3
Listening Skill	3
Effective Use of Words	2
POST-MID SEM	
Sentence Conciseness	4
Parallel Structure	3
Placement of Modifiers	3
Clear Reference	3
Co-ordination and Subordination	3
Business Correspondence	3
Structure of Business Letters	3

Course: Microeconomics-I	Semester: III
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Course Code: BEC31	L T P	4 0 0	Credits: 3
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Objective: The course is designed to provide a sound training in microeconomic theory to formally analyze the behaviour of individual agents. Since students are already familiar with the quantitative techniques in the previous semesters, mathematical tools are used to facilitate understanding of the basic concepts. This course looks at the behaviour of the consumer and the producer and also covers the behaviour of a competitive firm.

Reference Books	Author/Publication
Fundamentals of Microeconomics	C. Snyder and W. Nicholson, Cengage Learning (India), 2010.
Microeconomics	B. Douglas Bernheim and Michael D. Whinston, Tata McGraw-Hill (India), 2009.

Syllabus

1. Consumer Theory

Preference; utility; budget constraint; choice; demand; Slutsky equation; buying and selling; choice under risk and intertemporal choice; revealed preference.

2. Production, Costs and Perfect Competition

Technology; isoquants; production with one and more variable inputs; returns to scale; short run and long run costs; cost curves in the short run and long run; review of perfect competition.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Consumer Theory	22
POST-MID SEM	
Production, Costs and Perfect Competition	22

Course: Macroeconomics-I	Semester: III
Course Code: BEC32	L T P
4 0 0	Credits: 3

Objective: This course introduces the students to formal modeling of a macro-economy in terms

of analytical tools. It discusses various alternative theories of output and employment determination in a closed economy in the short run as well as medium run, and the role of policy in this context. It also introduces the students to various theoretical issues related to an open economy.

Reference Books	Author/Publication
Macroeconomics	Dornbusch, Fischer and Startz, McGraw Hill, 11 th edition, 2010
Macroeconomics	Olivier Blanchard, Pearson Education, Inc., 5 th edition, 2009.
International Economics	Paul R. Krugman, Maurice Obstfeld and Marc Melitz, Pearson Education Asia, 9 th edition, 2012.

Syllabus

Aggregate Demand and Aggregate Supply Curves

Derivation of aggregate demand and aggregate and supply curves; interaction of aggregate demand and supply.

Inflation, Unemployment and Expectations

Phillips curve; adaptive and rational expectations; policy ineffectiveness debate.

Open Economy Models

Short-run open economy models; Mundell-Fleming model; exchange rate determination; purchasing power parity; asset market approach; Dornbusch's overshooting model; monetary approach to balance of payments; international financial markets.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Aggregate Demand and Aggregate Supply Curves	11
Inflation, Unemployment and Expectations	11
POST-MID SEM	
Open Economy Models	22

Course:	Statistical Methods for Economics			Semester:	III
Course Code:	BEC33	L T P	4 0 0	Credits:	3

Objective: This is a course on statistical methods for economics. It begins with some basic concepts and terminology that are fundamental to statistical analysis and inference. It then develops the notion of probability, followed by probability distributions of discrete and continuous random variables and of joint distributions. This is followed by a discussion on sampling techniques used to collect survey data. The course introduces the notion of sampling distributions that act as a bridge between probability theory and statistical inference.

Reference Books	Author/Publication
Probability and Statistics for Engineers	Jay L. Devore, Cengage Learning, 2010.
An Introduction to Mathematical Statistics and its Applications	Richard J. Larsen and Morris L. Marx, Prentice Hall, 2011.

Syllabus

1. Introduction and Overview

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.

2. Elementary Probability Theory

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

3. Random Variables and Probability Distributions

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).

4. Random Sampling and Jointly Distributed Random Variables

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

5. Sampling

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

6. Point and Interval Estimation

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

Scheduled of Sessions

Topic	Sessions
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PRE-MID SEM	
Introduction and Overview	8
Elementary Probability Theory	8
Random Variables and Probability Distributions	6
POST-MID SEM	
Random Sampling and Jointly Distributed Random Variables	8
Sampling	8
Point and Interval Estimation	6

Course: Industrial Economics			Semester: III
Course Code: BEC34	L T P	4 0 0	Credits: 3

Objective: This course is designed to provide knowledge related to various aspects of mergers, amalgamations, acquisitions, joint venture and setting up a new venture.

Reference Books	Author/Publication
Industrial Growth in India	Ahluwalia I.J. (1985): Oxford University Press New
Industrial Economics	Barthwal R.R: Wiley Eastern Ltd., New Delhi
Industrial Economics	Singh, A and A.N. Sandhu (1988): Himalaya Publishing

Syllabus

Combination - Causes, types and forms of industrial combination; Effect of separation of ownership and management.

Mergers & takeovers – Financial and non-financial theories explaining the rationale behind mergers and takeovers; Coordination with other policies; Joint Ventures: their performance and sustainability.

Uncertainty and industrial organization – Theories of informational failure and their impact on the structure of firms; theories of insurance; determinants of demand for insurance. Investment decision - Conventional and modern methods; Risk and uncertainty; Financial statements and ratio analysis.

Technical change and market structure - The Economics of patents; Adoption and diffusion of innovations; Innovations and rivalry: Kamien and Schwartz; Measures of concentration: Concentration ratio, Hirschman-Herfindahl index & Entropy measure; Fixed costs, Sunk costs and contestability; Stackelberg-Spence-Dixit model.

Industrial location analysis – Theories of Weber, Palander, Losch, Hoover, Israd, Greenhut, Florence and Hotelling; Operational Approach to Location Analysis.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Combination	8
Mergers & takeovers	8
Uncertainty and industrial organization	6
POST-MID SEM	
Technical change and market structure	11
Industrial location analysis	11

Course: Agricultural Economics			Semester: III
Course Code: BEC35	L T P	4 0 0	Credits: 3

Objective: This course is designed to provide knowledge how economic development is related to agriculture. Different theories and models of agricultural development.

Reference Books	Author/Publication
The Economic Structure of Backward Agriculture	Bhaduri, A. (1984): Macmillan, Delhi.
Indian Agricultural Economics	Rudra, A. (1982): Myths and Reality, Allied Publishers, New Delhi.

Syllabus

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

Productivity in agriculture, Traditional agriculture and its modernization question.

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

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

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

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Agriculture and economic development	8
Productivity in agriculture	8
Theories and models	6
POST-MID SEM	
Agricultural Production Economics	11
The general conditions of equilibrium	11

Course: Soft Skills - II		Semester: III	
Course Code: BEC36	L T P	4 0 0	Credits: 3

Objective: This course is designed to help the student in prepositional phrases & phrasal verbs, speaking skills, presentations, group discussions, participating in the process of interviews.

Reference Books	Author/Publication

Syllabus

Word Accent, Accentual Patterns of Words in Isolation and in Connected Speech, Stress Pattern: Introduction-Importance of Pronunciation-The Problems of L2 Learners-Peculiar Problems of the English Language-Steps for Overcoming the Problem- Word Accent–Patterns of Word Accent

Guidelines for Syllabic Accent Intonation: Tone–Functions of Intonation-Grammatical Function

Intonation: Attitudinal Function-Accentual Functional-Uses of Tones- Intonation: Rising Tone–Falling Tone–Rising Falling Tone-Phonetic Transcription of Words

Prepositional Phrases & Phrasal Verbs: Prepositional Phrases- Phrasal Verbs

Writing of Parallel Grammatical Structures: Definition of a sentence–The Declarative Sentence–The Interrogative sentence, The Rhetorical Question–The Exclamatory Sentence–The Imperative Sentence-Subject and Predicate-Phrase: Verb Phrase, Adjective Phrase – Adverb Phrase-Clause: Recognizing Clauses–Using Clauses as Nouns-Adjectives, and Adverbs-Noun Clauses, Adjective Clauses-Adverb Clauses-Sentence Structure-Sentence Clarity: Mistakes to Avoid

Speaking Skills: Symposium-Practice Session-I Practice Session-II-Panel Discussion-Practice Discussion–I-Practice Discussion-II-Seminar-Practice session-I-Practice session-II.

Reading Comprehension: Introduction-Reading Effectively-Vocabulary-Tone-Comprehension Questions-Practice Session-I-Practice Session-II

Different Types of Paragraphs: Introduction–Writing as a Skill-Types of Prose–Writing-Paragraphs–Descriptive Prose-Writing Paragraphs: Narrative Prose-Practice Session-I-Practice Session-II-Practice Session-III

Official Letters : Summary: Summarizing–What is Summarizing–Rules of Writing, Summaries/Précis, Memos-Practice Session

Presentations, Group Discussions, Participating in the Process of Interviews: Introduction–The Content of Speaking–Presentation Skills–The Actual Presentation–Actual Presentation–Post Presentation–Self Analysis–The Final Checklist

The Most Famous ‘Presentations’ that changed the World –Text of Address

Assignments

Group Discussion: Group Discussion Techniques-Practice Session-I-Practice Session-II

Practice Session-III-Interview Techniques-Post Interview–The Actual Interview–The Appraisal Interview-Practice Session-Listening: An Introduction–Listening as a Language Skill–Practice Session-Telephone Conversation-Practice Session-Public Speaking– Style-Common Public Speeches-Practice Session-I

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Word Accent, Accentual Patterns of Words in Isolation and in Connected Speech, Stress Pattern	4
Intonation	4
Prepositional Phrases & Phrasal Verbs	4
Writing of Parallel Grammatical Structures	3
Speaking Skills	3
Reading Comprehension	4
POST-MID SEM	
Different Types of Paragraphs	5
Official Letters	6
Presentations, Group Discussions, Participating in the Process of Interviews	5
Group Discussion	6

Course: Microeconomics-II			Semester: IV
Course Code: BEC41	L T P	4 0 0	Credits: 3

Objective: This course is a sequel to Intermediate Microeconomics I. The emphasis will be on giving conceptual clarity to the student coupled with the use of mathematical tools and reasoning. It covers general equilibrium and welfare, imperfect markets and topics under information economics.

Reference Books	Author/Publication
Intermediate Microeconomics, a Modern Approach	Hal R. Varian, 8 th edition, W.W. Norton and Company/Affiliated East-West Press (India), 2010

Fundamentals of Microeconomics	C. Snyder and W. Nicholson, Cengage Learning (India), 2010
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Syllabus

1. General Equilibrium, Efficiency and Welfare

Equilibrium and efficiency under pure exchange and production; overall efficiency and welfare economics.

2. Market Structure and Game Theory

Monopoly; pricing with market power; price discrimination; peak-load pricing; two-part tariff; monopolistic competition and oligopoly; game theory and competitive strategy.

3. Market Failure

Externalities; public goods and markets with asymmetric information.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
General Equilibrium, Efficiency and Welfare	11
Market Structure and Game Theory	11
POST-MID SEM	
Market Structure and Game Theory	11
Market Failure	11

Course: Macroeconomics-II			Semester: IV
Course Code: BEC42	L T P	4 0 0	Credits: 3

Objective: This course is a sequel to Intermediate Macroeconomics. In this course, the students are introduced to the long run dynamic issues like growth and technical progress. It also provides the micro-foundations to the various aggregative concepts used in the previous course.

Reference Books	Author/Publication
Macroeconomics	Dornbusch, Fischer and Startz, McGraw Hill, 11 th edition, 2010.
Introduction to Economic Growth	Charles I. Jones, W.W. Norton & Company, 2 nd edition, 2002.

Syllabus

1. Economic Growth

Harrod-Domar model; Solow model; golden rule; technological progress and elements of endogenous growth.

2. Microeconomic Foundations

- a. Consumption: Keynesian consumption function; Fisher's theory of optimal intertemporal choice; life-cycle and permanent income hypotheses; rational expectations and random-walk of consumption expenditure.
- b. Investment: determinants of business fixed investment; residential investment and inventory investment.
- c. Demand for money.

3. Fiscal and Monetary Policy

Active or passive; monetary policy objectives and targets; rules versus discretion: time consistency; the government budget constraint; government debt and Ricardian equivalence.

4. Schools of Macroeconomic Thoughts

Classicals; Keynesians; New-Classicals and New-Keynesians.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Economic Growth	11
Microeconomic Foundations	11
POST-MID SEM	
Fiscal and Monetary Policy	11
Schools of Macroeconomic Thoughts	11

Course: Introductory Econometrics - I	Semester: IV		
Course Code: BEC43	L T P	4 0 0	Credits: 3

Objective: This course provides a comprehensive introduction to basic econometric concepts and techniques. It covers statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models. The course also covers the consequences of and tests for misspecification of regression models.

Reference Books	Author/Publication
Mathematical Statistics	John E. Freund, Prentice Hall, 1992.
Essentials of Econometrics	D. N. Gujarati and D.C. Porter, McGraw Hill, 4th edition, International Edition, 2009.
Introduction to Econometrics	Christopher Dougherty, Oxford University Press, 3rd edition, Indian edition, 2007.

Syllabus

1. Nature and Scope of Econometrics

2. Statistical Concepts

Normal distribution; chi-sq, t- and F-distributions; estimation of parameters; properties of estimators; testing of hypotheses: defining statistical hypotheses; distributions of test statistics; testing hypotheses related to population parameters; Type I and Type II errors; power of a test; tests for comparing parameters from two samples.

3. Simple Linear Regression Model: Two Variable Case

Estimation of model by method of ordinary least squares; properties of estimators; goodness of fit; tests of hypotheses; scaling and units of measurement; confidence intervals; Gauss-Markov theorem; forecasting.

4. Multiple Linear Regression Model

Estimation of parameters; properties of OLS estimators; goodness of fit - R^2 and adjusted R^2 ; partial regression coefficients; testing hypotheses – individual and joint; functional forms of regression models; qualitative (dummy) independent variables.

5. Violations of Classical Assumptions: Consequences, Detection and Remedies

Multicollinearity; heteroscedasticity; serial correlation.

6. Specification Analysis

Omission of a relevant variable; inclusion of irrelevant variable; tests of specification errors.

Scheduled of Sessions

Topic	Sessions
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PRE-MID SEM	
Nature and Scope of Econometrics	8
Statistical Concepts	8
Simple Linear Regression Model: Two Variable Case	6
POST-MID SEM	
Multiple Linear Regression Model	8
Violations of Classical Assumptions: Consequences, Detection and Remedies	8
Specification Analysis	6

Course: Public Economics			Semester: IV
Course Code: BEC44	L T P	4 0 0	Credits: 3

Objective: This course provides a comprehensive introduction to public revenue, public debts and public expenditure.

Reference Books	Author/Publication
Public Economic in India	J.R.Gupta by Atlantic Publishers & Dist, 01-Jan-2007
Public Finance	T.N.Hajela, Ane Books Pvt Ltd, 01-Jan-2010

Syllabus

Role of Public Finance - Equity and the Social Welfare Function; Market failure and role of government. Public Policy: State, Civil Society & Public Opinion

Public goods – Concept of Public & Private Goods, Nash -Cournot equilibrium : Only Graphical Solution and Pareto efficiency; Mechanisms for revelation of preferences; private provision of Public Goods; The Principle of Maximum Social Advantage; models of efficient allocation; pure and impure public goods; Partial and General Equilibrium Analysis; Free riding.

Externalities-The problem and its solutions, taxes versus regulation, property rights, the Coase Theorem.

Public Budget -Optimum Budget; Budget vs. Plan; Budgetary Procedure in India.

Principles of Taxation -Benefit vs. Ability to Pay; Different criteria for ability and progressive taxation; types of taxes; Incidence and Shifting of tax; Taxable Capacity; Welfare

Cost of Taxation-Effect of tax on price and output; unit and ad valorem taxation under competition and monopoly; Taxation and Work effort – theory and evidence: An Introduction, the Laffer curve.

Indian Tax System -Tax structure in India; Types of taxes in India, Issues of tax buoyancy in India; General Sales Tax and Value Added Tax; Indian Tax Administration

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Role of Public Finance	6
Public goods	6
Externalities	6
Public Budget	4
POST-MID SEM	
Principles of Taxation	8
Cost of Taxation	8
Indian Tax System	6

Course:	International Economics	Semester:	IV
Course Code:	BEC45	L T P	4 0 0
			Credits: 3

Objective: This course develops a systematic exposition of models that try to explain the composition, direction, and consequences of international trade, and the determinants and effects of trade policy.

Reference Books	Author/Publication
International Economics: Theory and Policy	Paul Krugman, Maurice Obstfeld, and Marc Melitz, Addison-Wesley (Pearson Education Indian Edition), 9 th edition, 2012.

International Economics: Trade and Finance	Dominick Salvatore, John Wiley International Student Edition, 10 th edition, 2011.
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Syllabus

1. Introduction

What is international economics about? An overview of world trade.

2. Theories of International Trade

The Ricardian, specific factors, and Heckscher-Ohlin models; new trade theories; the international location of production; firms in the global economy — outsourcing and multinational enterprises.

3. Trade Policy

Instruments of trade policy; political economy of trade policy; controversies in trade policy.

4. International Macroeconomic Policy

Fixed versus flexible exchange rates; international monetary systems; financial globalization and financial crises.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Introduction	11
Theories of International Trade	11
POST-MID SEM	
Trade Policy	11
International Macroeconomic Policy	11

Course: Soft Skills - III			Semester: IV
Course Code: BEC46	L T P	4 0 0	Credits: 3

Objective: This course is designed for grooming student for professional growth, adaptive performance at workplace, interpersonal adaptability.

Reference Books	Author/Publication

Syllabus

Personal Grooming: Introduction to Grooming – Grooming for Professional Growth – Hygiene and Skin Care – Hands and Nails – Oral Hygiene-Hair Care-Neat and Tidy Attire –Personal Health.

Attitude: Defining Attitude – What you think-What you d – What you feel- Controlling and Changing Emotions – Resilience.

Adaptability: Defining Adaptability – Adaptive Performance at Workplace - Solving Problems Creatively – Dealing with the Uncertain/Unpredictable Work Situations – Learning New Tasks, Technologies and Procedures – Interpersonal Adaptability – Demonstrating Cultural Adaptability.

Motivation: Defining Motivation – Develop a Dream – Goals – Perseverance-Overcoming Failure – Comfort Zone – Decisions.

Habits: Importance – Habits of Desire – Habits of Fear – Learning how to Learn: Habit of Positive Thinking, Developing Good Study Habits, Developing Good Money Habits, Developing Good Time Management Habits.

Listening Skills: Listening Effectively: Active Listening – Barriers to Effective Listening – Tips for being an Effective Listener – Classroom Listening Skills.

Speaking Up: Importance – Overcoming Shyness – Being an Effective Speaker –Greeting-Introducing-Leave Taking

Voice Modulation: Introduction – Pitch – Tone – Volume – Articulation - Exercises

Writing Circulars & Notices: Introduction – Format – Exercises

Group Discussions – Level I: Introduction to Small Group Discussion – Being an Effective Participant in Class Discussion – Strategies for Group Success – Getting Started – Reframe Disagreements in Constructive Ways – Opening Our Eyes to Differences among Group Members – Practice Sessions on simple topics

General Awareness – Facing Social Dilemmas: Introduction – Identifying Current Social Issues – Studying the various aspects – Arriving at a personal opinion – Speaking up – Practice Sessions.

Persuasive Skills: Introduction – Creating the Right Impression – Persuasion as a Communicative Process – Walking the Talk

Realizing Dreams: Importance – Dreaming Big – Road Maps –Keeping Track – Assessment – Overcoming Failures

Focusing: Discovering Natural Brilliance – Developing Clarity – Confidence– Persistence – Decisive Action – Living for a Purpose.

Course: Indian Tax System/GST			Semester: V
Course Code: BEC51	L T P	4 0 0	Credits: 3

Course: Introductory Econometrics - II			Semester: V
Course Code: BEC52	L T P	4 0 0	Credits: 3

Objective: The aim of this course is to provide a foundation in applied econometric analysis and develop skills required for empirical research in economics. Topics include specification and selection of regression models, dynamic econometric models, advanced methods in regression analysis and panel data models.

Reference Books	Author/Publication
Econometrics	Jeffrey M. Wooldridge, CENGAGE learning, India Edition, 2009.
Applied Econometrics: A Modern Approach	Dimitrios Asteriou and Stephen all, Palgrave Macmillan, 2007.

Syllabus

1. Stages in Empirical Econometric Research

2. Regression Diagnostics and Specification

Misspecification; functional forms; model selection.

3. Advanced Topics in Regression Analysis

Dynamic Econometric Models: distributed lag models; autoregressive models; instrumental variable estimation; simultaneous equation models.

4. Panel Data Models

Methods of estimation; fixed effects model; random effects model.

5. Introduction to Econometric Software Package

GRETTL; E-VIEWS; STATA (any one).

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Stages in Empirical Econometric Research	8
Regression Diagnostics and Specification	8
Advanced Topics in Regression Analysis	6
POST-MID SEM	
Panel Data Models	11
Introduction to Econometric Software Package	11

Course: Soft Skills-IV			Semester: V
Course Code: BEC53	L T P	4 0 0	Credits: 3

Objectives: To learn corporate Etiquette, interpersonal skills, public speaking and professionalism.

Reference Books	Author/Publication

Syllabus

Kinesics: Definition, Emblems–Illustrators, Influence on Business Communications– Affective Displays– Regulators –Adapters, Activities; Dressing up for Various Occasions - Formal & Informal Dressing, Dressing for Success, Activities.

Etiquette: Definition– Classroom Etiquette– Corporate Etiquette, Activities.

Group Discussion: Taking a Stand– Cricketers should be banned from advertising products, Taking a Stand- Cell phones should not be allowed in class.

Self–Discipline: Characteristics of Self-Disciplined Achiever-Self-Discipline at work, Characteristics of Self-Disciplined Work–Activities

Group Discussion: Uniform brings Equality among Students.

Interpersonal Skills: Introduction–How to Develop Interpersonal Skills–Beware of your Habits, How to contribute in teams with good Interpersonal Skills–Many factors that influence a team function; Activities.

Group Discussion: Laloo Prasad and the Railways Success

Leadership: Definition – Leadership Qualities, Traits of a Corporate Leader, Activities.

Group Discussion: Computers are better Teachers.

Team Work: Group Behavior in Team Work–Learning Team Work from Mother Nature, Activities.

Group Discussion: Football is a Better Game than Cricket.

Public Speaking: Public Speaking Skills–Factors Affecting Platform Behaviour –Physical Control; Verbal Delivery–General Tips for Effective Speaking; Activities

Team Building - Definition-Role of Group Members, Focus of Team Building, Activities

Diary and Itinerary Writing: Introduction to diary writing-The process of writing a diary, Introduction to itinerary writing–Prerequisite Knowledge–Procedure- Writing an itinerary–Itinerary Planner, Practice Sessions.

General Awareness: Activities

Negotiation: The Art of Negotiation–How to bargain to Win and still be Friends- Negotiation skills for Professionals, Activities

General Awareness: Activities

Assertiveness: Definition- What is not Assertiveness-What will it do? –How to be assertive-Know your rights, what are the benefits of Assertive behavior, Activities

General Awareness: Activities

Professionalism: Verbal Delivery–General Tips for Effective Speaking; Fitness/Health-Appearance–Rule, Knowledge–Responsibilities and Duties, Activities.

General Awareness: Activities.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Kinesics	3

Etiquette	2
Group Discussion	4
Self-Discipline	4
Interpersonal Skills	3
Leadership	3
Team Work	3
POST-MID SEM	
Public Speaking	3
Team Building	3
Diary and Itinerary Writing	3
General Awareness	4
Negotiation	3
Assertiveness	3
Professionalism	3

Course: Political Economy			Semester: V
Course Code: BEC54	L T P	4 0 0	Credits: 3

Objective: This course explores changes in the organisation of production, labour market institutions and corporate structure. It goes on to study the consequences of globalization, especially of financial flows, for the role of the state, economic performance, gender issues, environment, human welfare and development.

Reference Books	Author/Publication
A History of Capitalism, 1500-2000, trans	Michel Beaud, by Tom Dickman and Anny Lefebvre, New York: Monthly Review Press, 2001.

Syllabus

1. Introduction and Historical Overview

Perspective on political economy with a historical overview: capitalist development in the pre-second world war period, the ‘golden age’ and later.

2. Changing Dynamics of Capitalist Production, Organisational Form and Labour Process

Fordist and post-fordist production; changing dynamics of organisation of production, markets and labour process; the changing nature of job security and labour rights.

3. The State in the Era of Globalisation: Welfare, Development and Autonomy

Globalisation and the limits of the welfare state, development and state autonomy.

4. The Changing Role of Finance

The changing role of finance in capital accumulation and corporate structure; finance and globalisation - financialisation, financial liberalisation and financial crisis.

5. The Social Dimension

Globalisation and uneven development – growth, inequality and exclusion.

6. New Perspectives

Gender in work, accumulation and globalisation; issues in environment and sustainability; alternatives ahead.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Introduction and Historical Overview	8
Changing Dynamics of Capitalist Production, Organisational Form and Labour Process	8
The State in the Era of Globalisation: Welfare, Development and Autonomy	6
POST-MID SEM	
The Changing Role of Finance	8
The Social Dimension	8
New Perspectives	6

Course: Money and Banking	Semester: V
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Course Code: BEC55	L T P	4 0 0	Credits: 3
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Objective: This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered.

Reference Books	Author/Publication
Financial Markets and Institutions	F. S. Mishkin and S. G. Eakins, Pearson Education, 6 th edition, 2009.
Financial Institutions and Markets	L. M. Bhole and J. Mahukud, Tata McGraw Hill, 5 th edition, 2011

Syllabus

1. Money

Concept, functions, measurement; theories of money supply determination.

2. 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.

3. Interest Rates

Determination; sources of interest rate differentials; theories of term structure of interest rates; interest rates in India.

4. Banking System

a. Balance sheet and portfolio management.

b. Indian banking system: Changing role and structure; banking sector reforms.

5. Central Banking and Monetary Policy

Functions, balance sheet; goals, targets, indicators and instruments of monetary control; monetary management in an open economy; current monetary policy of India.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Money	8
Financial Institutions, Markets, Instruments	8

and Financial Innovations	
Interest Rates	6
POST-MID SEM	
Banking System	11
Central Banking and Monetary Policy	11

Course: Financial Economics			Semester: V
Course Code: BEC56	L T P	4 0 0	Credits: 3

Objective: This course introduces students to the economics of finance. Some of the basic models used to benchmark valuation of assets and derivatives are studied in detail; these include the CAPM, and the Binomial Option Pricing models. The course ends with a brief introduction to corporate finance.

Reference Books	Author/Publication
Financial Theory and Corporate Policy	Thomas E. Copeland, J. Fred Weston and Kuldeep Shastri, Prentice Hall, 4 th edition, 2003.
Principles of Corporate Finance	Richard A. Brealey and Stewart C. Myers, McGraw-Hill, 7 th edition, 2002.
Options, Futures and Other Derivatives	Hull, John C., Pearson Education, 6 th edition, 2005.

Syllabus

1. Investment Theory and Portfolio Analysis

a. Deterministic cash-flow streams

Basic theory of interest; discounting and present value; internal rate of return; evaluation criteria; fixed-income securities; bond prices and yields; interest rate sensitivity and duration; immunisation; the term structure of interest rates; yield curves; spot rates and forward rates.

b. Single-period random cash flows

Random asset returns; portfolios of assets; portfolio mean and variance; feasible combinations of mean and variance; mean-variance portfolio analysis: the Markowitz model and the two-fund theorem; risk-free assets and the one-fund theorem.

c. CAPM

The capital market line; the capital asset pricing model; the beta of an asset and of a portfolio;

security market line; use of the CAPM model in investment analysis and as a pricing formula.

2. Options and Derivatives

Introduction to derivatives and options; forward and futures contracts; options; other derivatives; forward and future prices; stock index futures; interest rate futures; the use of futures for hedging; duration-based hedging strategies; option markets; call and put options; factors affecting option prices; put-call parity; option trading strategies: spreads; straddles; strips and straps; strangles; the principle of arbitrage; discrete processes and the binomial tree model; risk-neutral valuation.

3. Corporate Finance

Patterns of corporate financing: common stock; debt; preferences; convertibles; Capital structure and the cost of capital; corporate debt and dividend policy; the Modigliani-Miller theorem.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Investment Theory and Portfolio Analysis	11
Options and Derivatives	11
POST-MID SEM	
Corporate Finance	22

Course: Monetary Economics			Semester: VI
Course Code: BEC61	L T P	4 0 0	Credits: 3

Course: Economics of Health & Education			Semester: VI
Course Code: BEC62	L T P	4 0 0	Credits: 3

Objective: The importance of education and health in improving well-being is reflected in their inclusion among the Millennium Development Goals adopted by the United Nations member

states, which include among other goals, achieving universal primary education, reducing child mortality, improving maternal health and combating diseases. This course provides a microeconomic framework to analyze, among other things, individual choice in the demand for health and education, government intervention and aspects of inequity and discrimination in both sectors. It also gives an overview of health and education in India.

Reference Books	Author/Publication
Principles of Health Economics for Developing Countries	William, Jack, World Bank Institute Development Studies, 1999.
Investing in Health	World Development Report, The World Bank, 1993.

Syllabus

1. Role of Health and Education in Human Development

Importance in poverty alleviation; health and education outcomes and their relationship with macroeconomic performance.

2. Microeconomic Foundations of Health Economics

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

3. Evaluation of Health Programs

Costing, cost effectiveness and cost-benefit analysis; burden of disease.

4. Health Sector in India: An Overview

Health outcomes; health systems; health financing.

5. Education: Investment in Human Capital

Rate of return to education: private and social; quality of education; signaling or human capital; theories of discrimination; gender and caste discrimination in India.

6. Education Sector in India: An Overview

Literacy rates, school participation, school quality measures.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Role of Health and Education in Human Development	8
Microeconomic Foundations of Health Economics	8
Evaluation of Health Programs	6

POST-MID SEM	
Health Sector in India: An Overview	8
Education: Investment in Human Capital	8
Education Sector in India: An Overview	6

Course: Soft skills-V			Semester: VI
Course Code: BEC63	L T P	4 0 0	Credits: 3

Objectives: This course helps the students to develop debating skills, Presentation and interview skills. It will help them in preparing towards placements.

Reference Books	Author/Publication

Syllabus

I, Me, Myself: Importance of knowing self.

Debating skills – a prelude to persuading

Interview Presentation and Interview skills – Tips to be followed before the- Interview tips to be followed during the- Interview tips to be followed after the Interview- The Hidden Agenda- Ten Steps to a Successful Interview-Telephonic Interview tips and Techniques.

Presentation Skills-Handling and Putting Queries.

Time Management – Time Management Self management.

Stress management- Symptoms of Stress-Type of Stress-Strategy of Coping with Stress.

Change management- Classification of Stress.

Failure management - A new view of Failure.

Ethics- Develop an Understanding of the various aspects of Values and Ethics.

Report writing- Understand the Importance of Business Reports- Write an Effective Business Report.

Resume writing- Writing a Solid Resume.-some FAQ's.

GD level 111- The Selection process-Do and Don'ts.-GD tips-GD preparation-Type of GD's.

General awareness - What is a caption?-What is a punch line?-The brands and the punch lines.-
What is a collage?

Conflict management- Handling Conflict-Causes of Conflict-Characteristics of Conflict-
Conflict at Workplace.

Crisis management- What is Crisis?-When it becomes a HR Problem.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
I, Me, Myself	3
Debating skills	3
Interview Presentation and Interview skills	3
Presentation Skills	4
Time Management	3
Stress management	3
Change management	3
POST-MID SEM	
Failure management	3
Ethics	3
Report writing	3
Resume writing	4
General awareness	3
Conflict management	3
Crisis management	3

Course: Labour Economics			Semester: VI
Course Code: BEC64	L T P	4 0 0	Credits: 3

Objectives: Labour Economics helps the students of Economics to understand the nature of Labour market, Issues related to employment, wage determination, Industrial relations, role of trade unions and the role of the state Government in improving the standards of Labour.

Reference Books	Author/Publication
Economics of Labour	R.A. Lester, Macmillan, 1964
Contemporary Labour Economics	C.R. Mc Connell and S.L. Brue, McGraw Hill, 1986.

Syllabus

Labour Market-Nature and characteristics of labour markets in Developing countries like India. Paradigms of Labour Market: Classical, Neo-classical and dualistic model Analysis of demand supply forces-Demand for Labour market relating to size and pattern of investment, choice of technology and Government Labour policies and Their orientation Supply of Labour in relation to growth of Labour force -Labour Market process.

Employment-Importance of employment in the context of poverty in developing countries. Concept and measurement of unemployment Causes –Issues relating to employment, rationalization, technological, change and modernization. Rural Unemployment and educated Unemployment Employment policy under the five -year plans -Evaluation of employment policy in India.

Wage Determination: Theory and Practice- Classical, Neo classical and bargaining theories of wage determination. Concepts of wages -fair, living-minimum problems of implementation of minimum wages. Wage determination by sectors -Urban and Rural Organised and Unorganised sectors. Wage and non -wage components of Labour recommendation. Wage and productivity and wage and inflation relationship -productivity and profit sharing schemes. Wage differentials in terms of firm, Industry, Occupation, Region, Sex and Skills wage standardization –case studies -wage policy in India

Industrial Relations and Trade Unions-Growth of Industrialization and emergence of Unionism Theories of Labour movement -Growth structure and pattern of trade union in India. Comparative Labour movements in U.K. ,U.S.A., and EU Achievements and failures of trade union movements Determinants of Industrial disputes –Steps to achieve peace –Methods of settling industrial disputes –Collective bargaining, conciliation, arbitration, adjudication - Grievance settlements. Labour participation in management.

State and Labour- Increasing role of state in determination of Labour matters -Labour policy of the Government in the past. Various social security and labour welfare measures adopted by Government -Comparative account of social security measures adopted in U.K., U.S.A. and EU. Important Labour legislations in India and their implications. Impact of ILO–Government

policy towards Labour and trade unions. Agricultural Labour –Child Labour –Labour in Unorganised sectors -VRS Policy.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Labour Market	8
Employment	8
Wage Determination: Theory and Practice	6
POST-MID SEM	
Industrial Relations and Trade Unions	11
State and Labour	11

Course: Demography			Semester: VI
Course Code: BEC65	L T P	4 0 0	Credits: 3

Objective: The main objective of this paper is to make the students aware of the importance of population in economic development and the various theories that explain the growth of population in a country. The paper also enlightens the student on the quantitative and the qualitative aspects and characteristics of the population through various demographic techniques. In recent times, gender characteristics of the population have acquired importance and these have also been included in the framework of study. Migration and urbanization are the characteristics of structural change taking place in a society. Their study is essential to understand the dynamics of this change. The paper exposes the students to sources of population and related characteristics as also to the rationale, need and evolution of population policy.

Reference Books	Author/Publication
India's Population Problem	Agarwala, S. N. (1972), Tata McGraw Hill Co., Bombay.
Population Policy in India	Choubey, P. K. (2000), Kanishka Publications, New Delhi.

Syllabus

Population and Development

Meaning and scope of demography; components of population growth and their interdependence; Measures of population change; Structure, distribution and sources of population data; Theories of population – Malthus, Optimum theory of population; theory of demographic transition – Views of Meadows, Enke and Simon; Population and development.

Structure of Population

Population trends in the twentieth century; Population explosion – Threatened or real, distant or imminent; international aspects of population growth and distribution; Pattern of age and sex structure in more developed and less developed countries; Determinants of age and sex structure; Demographic effects of sex and age structure, economic and social implications; Age pyramids and projections – Individual aging and population aging.

Fertility, Nuptiality and Mortality

Importance of study of fertility – Total fertility rate, Gross reproduction rate and net reproduction rate; Levels and trends of fertility in more and less developed countries; Factors affecting fertility – Socio-economic factors, economic status, health, education, nutrition, caste, religion, race, region, rural-urban and status of husband and wife; Nuptiality – Concept and analysis of marital status, single mean age at marriage; Synthetic cohort methods; Trends in age at marriage; Mortality – Death rates, crude and age-specific; Mortality at birth and infant mortality rate; levels and trends in more and less developed countries; Sex and age pattern of mortality; Factors for decline in mortality in recent past; Life table – Construction and uses; Concepts of stable population; Methods of population projection.

Migration and Urbanization

Concept and types – Temporary, internal and international; International migration –Its effect on population growth and pattern; Factors affecting migration; Theories of migration related to internal migration; Urbanization – Growth and distribution of rural-urban population in developed and developing countries.

Demographic Data Base in India

Study of census in India – Methodology and characteristics of census; Nature of information collected in 1971, 1981, 1991 and 2001 census in India; National Family Health survey 1 and 2 and Rapid Household survey; changing characteristics of population in India; Population growth rates, trends and regional variations in sex ratio; Age structure of population, foetal, infant and child mortality rates; Maternal mortality rates; Life expectancy; Appraisal of Kerala model; Pattern of Migration and Urbanization in India.

Population and Development with Reference to India

Population, economy and environment linkages – Population, health, nutrition, productivity nexus; Population and human development issues; Culture and fertility; Demography and household economic behaviour.

Population Policy in India

Evolution of population policy in India – The shift in policy from population control to family welfare, to women empowerment; Family planning strategies and their outcomes; Reproductive health, maternal nutrition and child health policies; Population and strategies for human development of different social groups; social impact of new reproductive technologies and their regulation; The new population policy, Tasks before the National Population Commission.

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Population and Development	6
Structure of Population	5
Fertility, Nuptiality and Mortality	6
Migration and Urbanization	5
POST-MID SEM	
Demographic Data Base in India	8
Population and Development with Reference to India	8
Population Policy in India	6

Course: History of Economic Thought			Semester: VI
Course Code: BEC66	L T P	4 0 0	Credits: 3

Objective: This course analyses key aspects of Indian economic development during the second half of British colonial rule. In doing so, it investigates the place of the Indian economy in the wider colonial context, and the mechanisms that linked economic development in India to the compulsions of colonial rule. This course links directly to the course on India's economic development after independence in 1947.

Reference Books	Author/Publication
Foreign Trade and Balance of Payments	K.N. Chaudhuri, CEHI.
India and the British Empire 1880-1935	B.R. Tomlison, 1975, IESHR, Vol.XII.

Syllabus

1. Introduction: Colonial India: Background and Introduction

Overview of colonial economy.

2. Macro Trends

National Income; population; occupational structure.

3. Agriculture

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

4. Railways and Industry

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

5. Economy and State in the Imperial Context

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

Scheduled of Sessions

Topic	Sessions
PRE-MID SEM	
Introduction: Colonial India: Background and Introduction	8
Macro Trends	8
Agriculture	6
POST-MID SEM	
Railways and Industry	11
Economy and State in the Imperial Context	11