Development Economics I (HC52)

Core Course - (CC) Credit:6

Course Objective (2-3)

This is the first part of a two-part course on economic development. 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.

Course Learning Outcomes

This course introduces students to the basics of development economics, with in-depth discussions of the concepts of development, growth, poverty, inequality, as well as the underlying political institutions.

Unit 1
Conceptions of Development

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

Unit 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

Unit 3
Poverty and Inequality: Definitions, Measures and Mechanisms

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

Unit 4
Political Institutions and the Functioning of the State

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

References

7. Human Development Report, relevant years
12. D. Rodrik: “Fifty Years of Growth (and lack thereof): An Interpretation” (Chapter 1 of One Economics, Many Recipies: Globalization, Institutions and Economic Growth

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Economic development, poverty, inequality

Development Economics II (HC62)

Core Course - (CC) Credit:6

Course Objective(2-3)

This is the second course of the economic development sequence. It begins with basic demographic concepts and their evolution during the process of development. The structure of markets and contracts is linked to the particular problems of enforcement experienced in poor countries. The governance of communities and organizations is studied and this is then linked to questions of sustainable growth. The course ends with reflections on the role of globalization and increased international dependence on the process of development.

Course Learning Outcomes

This course teaches the student various aspects of the Indian economy, as well as important themes relating to the environment and sustainable development. It also introduces them to some issues of globalisation.

Unit 1
Demography and Development

Demographic concepts; birth and death rates, age structure, fertility and mortality; demographic
transitions during the process of development; gender bias in preferences and outcomes and evidence on unequal treatment within households; connections between income, mortality, fertility choices and human capital accumulation; migration

Unit 2
Land, Labour and Credit Markets

The distribution of land ownership; land reform and its effects on productivity; contractual relationships between tenants and landlords; land acquisition; nutrition and labor productivity; informational problems and credit contracts; microfinance; inter-linkages between rural factor markets

Unit 3
Environment and Sustainable Development

Defining sustainability for renewable resources; a brief history of environmental change; common-pool resources; environmental externalities and state regulation of the environment; economic activity and climate change

Unit 4
Globalisation

Globalisation in historical perspective; the economics and politics of multilateral agreements; trade, production patterns and world inequality; financial instability in a globalised world

References


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Demography, development, land, labour, credit, environment, sustainable development

Indian Economy I (HC51)
Core Course - (CC) Credit:6
Course Objective(2-3)

Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points.

Course Learning Outcomes

At the end of the course, a student should be able to understand the development paradigm adopted in India since independence and evaluate its impact on economic as well as social indicators of progress and well being.

Unit 1
Economic development since independence

Unit 2
Human Capital: Demography, health and education

Unit 3
Growth and Distribution: Poverty, inequality, unemployment and policy interventions

Unit 4
International comparisons

References

Given the topical nature of this course, some readings will change from year to year.

9. V. Joshi: India's Long Road: The Search for Prosperity, Allen Lane (2016)
14. V. Rawal, V. Bansal, P. Bansal: Prevalence of undernourishment in Indian states:
Explorations based on NSS 68th round data, Economic and Political Weekly 54(15), 35-45 (2019)

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Indian economic development, government policy

Indian Economy II (HC61)

Core Course - (CC) Credit:6

Course Objective(2-3)
This course examines sector-specific polices and their impact in shaping trends in key economic indicators in India. It highlights major policy debates and evaluates the Indian empirical evidence.

Course Learning Outcomes
At the end of the course, a student should be able to understand the role of economic policies in shaping and improving economic performance in agriculture, manufacturing and services.

Unit 1
Macroeconomic policies and their impact

Unit 2
Policies and performance in agriculture

Unit 3
Policies and performance in industry and services

References
Given the topical nature of this course, readings will be updated from year to year.

2. R. Banga: Trade facilitation and `hollowing-out' of Indian manufacturing, Economic and Political Weekly 49(40), 57-63 (2014)
3. A. Basole, D. Basu, R. Bhattacharya: Determinants and impacts of subcontracting: evidence
18. K. Sen, D. Das: Where have all the workers gone? The puzzle of declining labour intensity in organised Indian manufacturing, Economic and Political Weekly 50(23), 108-115 (2015)

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Economic development, sectoral performance, policy analysis
Intermediate Macroeconomics I (HC32)

Core Course - (CC) Credit:6

Course Objective(2-3)

This is the second module of a three-module sequence on Macroeconomics. This course introduces students to formal modeling of the macroeconomy 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 students to various microfounded theories of macro behaviour, e.g., consumption and investment behaviour of households and the demand for money generated in the household sector.

Course Learning Outcomes

This course enables students to analyse the macroeconomic performance of various countries using formal analytical tools. It also allows them to evaluate important macroeconomic policies and their implications.

Unit 1
The labour market

Wage determination; wages, prices and employment; natural rate of unemployment; from employment to output

Unit 2
Aggregate demand and aggregate supply curves

Derivation of aggregate demand and aggregate and supply curves; interaction of aggregate demand and supply to determine equilibrium output, price level and employment

Unit 3
Inflation, unemployment and expectations

Phillips curve; adaptive and rational expectations; policy ineffectiveness debate

Unit 4
Microeconomic foundations

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

Investment: determinants of business fixed investment; residential investment and inventory investment

Demand for money

References

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Aggregate demand, aggregate supply, inflation, unemployment, expectations

Intermediate Macroeconomics II (HC42)

Core Course - (CC) Credit:6

Course Objective(2-3)
This course is a sequel to Intermediate Macroeconomics I. In this course, students are introduced to long run issues like growth, technical progress, economics of ideas, R&D, innovation and knowledge creation. This course also provides insights into modern business cycle analysis. Finally it introduces students to open economy macro issues. At the end, it provides a long run perspective to policy-making by framing policies in a dynamic context.

Course Learning Outcomes
This course will enable students to combine their knowledge of the working of the macroeconomy with long run economic phenomena like economic growth, technological progress, R&D and innovation. It will also enable students to understand business cycles and the concomitant role of policies.

Unit 1
Economic growth
Harrod-Domar model; Solow model; Golden rule, technological progress, economics of ideas, engines of growth, modern theories of endogenous growth

Unit 2
Business cycles
Real business cycle theory; new Keynesian models of sticky prices

Unit 3
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

Unit 4
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

References


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Economic growth, business cycles, open economy models, fiscal and monetary policy

Intermediate Microeconomics I (HC31)

Core Course - (CC) Credit:6

Course Objective(2-3)

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.

Course Learning Outcomes

The course trains the students of Economics about the basic elements of consumer theory and production theory and the functioning of perfectly competitive market. This course aims to give students a solid grasp of microeconomic analysis at the intermediate-level using mathematical techniques where appropriate.

Unit 1
Consumer theory
Preference; utility; budget constraint; choice; demand; Slutsky equation; buying and selling; choice under risk and intertemporal choice; revealed preference

Unit 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

References


Additional Resources:


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Consumer theory, producer theory, perfect competition

Intermediate Microeconomics II (HC41)

Core Course - (CC) Credit:6

Course Objective(2-3)

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.

Course Learning Outcomes

This course helps the students to understand efficiency of markets and the environment where the standard market mechanism fails to generate the desirable outcomes. The issues of market imperfection and market failures are important building blocks of this course.

Unit 1
General equilibrium, efficiency and welfare

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

Unit 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.

Unit 3
Market failure

Externalities; public goods and markets with asymmetric information.

References


Additional Resources:


Teaching Learning Process

Lectures and tutorials.

Assessment Methods

Internal assessment and final examination as per CBCS rules

Keywords

General equilibrium, efficiency, welfare, market structure, imperfect competition, externalities, public goods

Introductory Econometrics (HC43)

Core Course - (CC) Credit:6

Course Objective(2-3)

This course introduces students to the econometric methods used to conduct empirical analysis in Economics. The course is designed to provide the students with the basic quantitative techniques needed to undertake applied research projects. It also provides the base for more advanced optional courses in econometrics.

Course Learning Outcomes

Students will learn to estimate linear models using ordinary least squares and make inferences about population parameters. They will also understand the biases created through mis-specified models, such as those that occur when variables are omitted.

Unit 1

Nature and scope of econometrics

Unit 2

Simple linear regression model: Two variable case
Ordinary least squares estimation of a linear model; properties of estimators; goodness of fit; testing of hypotheses; scaling and units of measurement; confidence intervals; the Gauss-Markov theorem; forecasting and prediction

Unit 3
Multiple linear regression model

Extension of the single explanatory variable case to a multivariate setting; introducing non-linearities through functions of explanatory variables

Unit 4
Violations of classical assumptions: Consequences, detection and remedies

Multicollinearity; heteroscedasticity; serial correlation

Unit 5
Specification Analysis

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

References


Teaching Learning Process

Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Regression, least squares, linear models

Introductory Macroeconomics (HC22)

Core Course - (CC) Credit:6

Course Objective(2-3)

This is the first module in a three-module sequence that introduces 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 GDP, savings, investment, money, inflation, and the balance of payments. It also introduces students to simple analytical frameworks (e.g., the IS-LM model) for determination of equilibrium output.

Course Learning Outcomes

This course aims to develop the broad conceptual frameworks which will enable students to understand and comment upon real economic issues like inflation, money supply, GDP and their interlinkages. It will also allow them to critically evaluate various macroeconomic policies in terms of a coherent logical structure.

Unit 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

Unit 2
Money

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

Unit 3
Inflation

Inflation and its social costs; hyperinflation

Unit 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.

References


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
National income accounting, money, inflation, classical model, Keynesian model
Course Objective(2-3)

This course is designed to expose the students to the basic principles of microeconomic 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.

Course Learning Outcomes

The course introduces the students to the first course in economics from the perspective of individual decision making as consumers and producers. The students learn some basic principles of microeconomics, interactions of supply and demand, and characteristics of perfect and imperfect markets.

Unit 1
Introduction

What is microeconomics? Scope and method of economics; the economic problem: scarcity and choice; the concept of opportunity cost; the question of what to produce, how to produce and how to distribute output; science of economics; institutions for allocating resources; the basic competitive model; prices, property rights and profits; incentives and information; rationing; positive versus normative analysis

The scientific method; the role of assumptions; models and mathematics; why economists sometimes disagree

Interdependence and gains from trade; specialization and trade; absolute advantage; comparative advantage and trade

Unit 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

Application to international trade; comparison of equilibria with and without trade, the winners and losers from trade; effects of tariffs and quotas; benefits of international trade; some arguments for restricting trade

Unit 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

Unit 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

Unit 5
Imperfect Market Structure

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

Unit 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; labour markets and public policy

References


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Supply, demand, elasticity, consumer behaviour, firm behaviour, perfect and imperfect markets

Mathematical Methods for Economics I (HC11)

Core Course - (CC) Credit:6

Course Objective(2-3)

This is the first of a compulsory two-course sequence. 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. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.

Course Learning Outcomes

The course hones and upgrades the mathematical skills acquired in school and paves the way for the second semester course Mathematical Methods in Economics II. Collectively, the two papers provide the mathematical foundations necessary for further study of a variety of disciplines including economics, statistics, computer science, finance and data analytics. The analytical tools introduced in this course have applications wherever optimisation techniques are used in business
decision-making. These tools are necessary for anyone seeking employment as an analyst in the corporate world. The course additionally makes the student more logical in making or refuting arguments.

Unit 1
Preliminaries

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

Unit 2
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: characterisations, properties with respect to various operations and applications;

Differentiable functions: characterisations, properties with respect to various operations and applications;

Second and higher order derivatives: properties and applications.

Unit 3
Single-variable optimization

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

Unit 4
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.

References


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Sets, functions, continuity, differentiability, vector space, linear mappings
Course Objective(2-3)

This course is the second part of a compulsory two-course sequence. This part is to be taught in Semester II following the first part in Semester I. 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. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.

Course Learning Outcomes

The course provides the mathematical foundations necessary for further study of a variety of disciplines including postgraduate economics, statistics, computer science, finance and data analytics. The analytical tools introduced in this course have applications wherever optimization techniques are used in business decision-making for managers and entrepreneurs alike. These tools are necessary for anyone seeking employment as an analyst in the corporate world.

Unit 1
Functions of several real variables

Geometric representations: graphs and level curves; differentiable functions: characterisations, 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: characterisations and applications

Unit 2
Multivariate optimisation

Convex sets; geometric properties of functions: convex functions, their characterisations, properties and applications; further geometric properties of functions: quasiconvex functions, their characterisations, properties and applications; unconstrained optimisation: geometric characterisations, characterisations using calculus and applications; constrained optimisation with equality constraints: geometric characterisations, Lagrange characterisation using calculus and applications; properties of value function: envelope theorem and applications

Unit 3
Linear programming

Introduction, graphical solution, matrix formulation, duality, economic interpretation

Unit 4
Integration, differential equations, and difference equations

Definite integrals, indefinite integrals and economic applications; first order difference equations, equilibrium and its stability; first order differential equations, phase diagrams and stability

References
Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Functions of several real variables, multivariate optimisation, linear programming, integration, differential equations, and difference equations

Statistical Methods for Economics (HC33)

Core Course - (CC) Credit:6

Course Objective (2-3)

The course teaches students the basics of probability theory and statistical inference. It sets a necessary foundation for the econometrics courses within the Honours programme. The familiarity with probability theory will also be valuable for courses in advanced microeconomic theory.

Course Learning Outcomes

At the end of the course, the student should understand the concept of random variables and be familiar with some commonly used discrete and continuous distributions of random variables. They will be able to estimate population parameters based on random samples and test hypotheses about these parameters. An important learning outcome of the course will be the capacity to analyse statistics in everyday life to distinguish systematic differences among populations from those that result from random sampling.

Unit 1
Introduction and overview

The distinction between populations and samples and between population parameters and sample statistics.

Unit 2
Elementary probability theory

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

Unit 3
Random variables and probability distributions

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

Unit 4
Random sampling and jointly distributed random variables
Density and distribution functions for jointly distributed random variables; computing expected values of jointly distributed random variables; covariance and correlation coefficients

Unit 5
Point and interval estimation

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

Unit 6
Hypothesis testing

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

References


Teaching Learning Process

Lectures and tutorials

Assessment Methods

Internal assessment and final examination as per CBCS rules

Keywords

Population parameters, sample statistics, probability, statistical inference

Applied Econometrics (HE55)

Discipline Specific Elective - (DSE) Credit:6

Course Objective(2-3)

The course assumes that students have a basic knowledge of statistics, mathematics as well as basic econometric theory. It builds on the compulsory Introductory Econometrics course and teaches students a broad set of commonly used econometric methods. These include estimating models with limited dependent variables and the use of instrumental variables to estimate models with endogenous regressors.

Course Learning Outcomes

Students will learn the theoretical basis for techniques widely used in empirical research and
consider their application in a wide range of problems.

Unit 1
Stages in empirical econometric research

Unit 2
The linear regression model: estimation, specification and diagnostic testing: estimation, specification and inference

Unit 3
Advanced topics in regression analysis: dynamic econometric models, instrumental variable estimation, measurement errors

Unit 4
Panel data models and estimation techniques: pooled regression, fixed and random effects models

Unit 5
Limited dependent variables: logit and probit models for binary responses, tobit models for truncated data.

Unit 6
Introduction to econometric software; publicly available data sets and software will be used to estimate models and apply the techniques learned in class

References

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Regression, instrumental variables, panel data

Comparative Economic Development: 1850-1950 (HE66)
Discipline Specific Elective - (DSE) Credit:6
Course Objective

This course analyses key aspects of Indian economic development during the second half of British colonial rule. In doing so, it investigates the mechanisms that linked economic development in India to the compulsions of colonial rule.

Course Learning Outcomes

By analysing the history of industrialisation and economic transition, students will be able to visualise economic development in a historical perspective and assimilate material from a diverse range of opinions. It will help them to think in an interdisciplinary manner and therefore aid them in jobs where developing and presenting comparative perspectives are key tasks.

Unit 1

Introduction and overview of the countries selected for case studies - Britain, Japan, USSR, and USA.

Unit 2

Agriculture, agrarian and land relations and agrarian surplus in industrialisation and economic development

Unit 3

The industrialisation process

Unit 4

The factory system and making of the industrial working class

Unit 5

The role of the state in industrial and developmental transition

References

Some readings may be updated from year to year. Material for the course will be drawn from the following sources.

1. R. Davies: chapters 1, 2, 3, 4, 5, 6, 7, 8, in Soviet Economic Development from Lenin to Khrushchev, Cambridge University Press (1998)
5. E. Hobsbawm: chapters 1, 2, 3, 5, 6, 12, in Industry and Empire: An Economic History of Britain since 1750, Weidenfeld & Nicholson (1968)

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Land relations, agrarian surplus, industrialisation, role of the state

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Economic History of India 1857-1947 (HE56)

Discipline Specific Elective - (DSE) Credit:6

Course Objective(2-3)

This course analyses key aspects of Indian economic development during the second half of British colonial rule. In doing so, it investigates the mechanisms that linked economic development in India to the compulsions of colonial rule.

Course Learning Outcomes

The course develops critical analytical skills and exposes students to understanding the intricacies of India’s economic, political and social developments both in the past and present times. It increases their employability by enhancing their ability to deal with a variety of textual and statistical sources, and to draw upon them to construct a coherent argument. These skills would be useful in a variety of careers in academics, research, journalism and the government.

Unit 1

Colonial India: background and introduction

Unit 2

Trends in national income, population; labour and occupational structure

Unit 3

Agriculture, agrarian structure and land relations

Unit 4
Railways and industry

Unit 5

Economy and state in the imperial context

References

Some readings may be updated periodically. Material for the course will be drawn from the following sources

5. S. Guha: Mortality decline in early 20th century India, Indian Economic and Social History Review 28(4), 371-87 (1991)

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Economics of Health and Education (HE62)

Discipline Specific Elective - (DSE) Credit:6

Course Objective (2-3)

This is a course in applied economics, which will introduce the students to the study of health and education as components of human capital in the framework of economic theory. The students will learn the role of health and education in human development. They will be able to apply economic theory to understand the demand for health care, market failure in health insurance, economic evaluation of health care programmes and the role of public policy in the healthcare industry. They will also learn to analyse the returns to education, its role in labor market signalling, and the progress of schooling in India. They will also be exposed to the theories of discrimination.

Course Learning Outcomes

Unit 1

Role of health and education in human development: health and education outcomes and their relationship with macroeconomic performance

Unit 2

Topics in health economic theory: demand for health, Grossman's model of demand for health, information asymmetry in healthcare demand, the health insurance market, physician induced demand, adverse selection and moral hazard in health insurance

Unit 3

Economic evaluation of health care: cost effectiveness and cost-benefit analysis; valuing life

Unit 4

Public policy in the health sector; externalities in health and health care; rationale for government intervention in the health sector

Unit 5

Education: investment in human capital; rate of return to education: private and social; quality of education; signalling of human capital; theories of discrimination; gender and caste discrimination in India

Unit 6

Education sector in India: an overview

References


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Education, health, economics, India

Environmental Economics (HE63)

Discipline Specific Elective - (DSE) Credit:6

Course Objective (2-3)

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

Course Learning Outcomes

The module aims to introduce students to the main theoretical and empirical concepts in environmental economics, equip students with a thorough analytical grasp of environmental policy theory, ranging from externalities to international environmental agreements, and familiarise students with the main issues in environmental valuation and with the basic features of the environmental policy tools. At the end of the module the students should be able to demonstrate their understanding of the economic concepts of environmental policy. In some models, the student will be required to deal with simple algebra problems that will help them to better understand these concepts, use diagrammatic analysis to demonstrate and compare the economic welfare effects of various environmental policy options, demonstrate their understanding of the usefulness and problems related to environmental valuation, and demonstrate their critical understanding of environmental policies.

Unit 1
Introduction: What is environmental economics?; review of microeconomics and welfare economics

Unit 2
The theory of externalities: Pareto optimality and market failure in the presence of externalities;
property rights and the Coase theorem

Unit 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

Unit 4
International environmental problems: trans-boundary environmental problems; economics of climate change; trade and environment

Unit 5
Measuring the benefits of environmental improvements: non-market values and measurement methods; risk assessment and perception

Unit 6
Sustainable development: concepts; measurement

References

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Pollution, externalities, natural resources

Financial Economics (HE54)

Discipline Specific Elective - (DSE) Credit:6

Course Objective(2-3)
This course provides a strong theoretical foundation and an economic framework to understand the world of modern finance. Major topics in the course include: time-value of money; fixed-income securities; bond pricing and the term structure of interest rates; portfolio theory and pricing models such as the capital asset pricing model; hedging, speculation, and arbitrage; futures and options contracts; determination of forward and futures prices; trading strategies involving options; binomial trees; and the Black-Scholes-Merton option pricing model

Course Learning Outcomes

Students acquire extensive theoretical knowledge in portfolio risk management, capital asset pricing, and the operation of financial derivatives. The course familiarises students with the terms and concepts related to financial markets and helps them comprehend business news/articles better. The course also helps to enhance a student's understanding of real life investment decisions. The course has a strong employability quotient given the relatively high demand for skilled experts in the financial sector.

Unit 1

Investment theory and portfolio analysis: 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.

Single period random cash flows; mean-variance portfolio theory; 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. 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; the CAPM as a factor model, arbitrage pricing theory

Unit 2

Futures, options and other derivatives: introduction to derivatives and options; forward and futures contracts; options; other derivatives; the use of futures for hedging, stock index futures; forward and futures prices; interest rate futures and 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; stochastic process (continuous variable, continuous time), the Markov property, Itô's lemma; the idea underlying the Black-Scholes-Merton (BSM) differential equation, BSM pricing formulas; the Greek letters

References


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules
International Trade (HE52)

Discipline Specific Elective - (DSE) Credit:6

Course Objective(2-3)

The purpose of this course is to inform the basics of international trade theory and to examine the effects of international economic policies on domestic and world welfare. 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. Although the course is based on abstract theoretical models, students will also be exposed to real-world examples and case studies.

Course Learning Outcomes

The module aims to introduce students to the main theoretical and empirical concepts in international trade, equip students with a thorough analytical grasp of trade theory, ranging from Ricardian comparative advantage to modern theories of intra-industry trade, and familiarise students with the main issues in trade policy and with the basic features of the international trading regime. At the end of the course, the students should be able to demonstrate their understanding of the economic concepts of trade theory. In some models, the student will be required to deal with simple algebraic problems that will help them to better understand these concepts, use diagrammatic analysis to demonstrate and compare the economic welfare effects of free trade and protection, demonstrate their understanding of the usefulness and problems related to topics in international trade, and demonstrate their critical understanding of trade policies.

Unit 1

Introduction: What is international economics about? An overview of world trade. Stylized facts about international trade

Unit 2

Neoclassical trade theories: Ricardian trade theory (notion of comparative advantage and gains from trade due to specialisation); an introduction to the distributional effects of trade; the specific factor model; Heckscher-Ohlin theory: Rybczinski and Stolper-Samuelson theorems; Heckscher-Ohlin theorem; factor price equalisation

Unit 3

New trade theories: external economies of scale, internal economies of scale; the Krugman model; firm heterogeneity; international movement of factors; introduction to the theory of multinational firms

Unit 4

Trade policy: instruments of trade policy; tariffs, quotas, export subsidies, voluntary export
restraints. The economics of trade policy; political economy of trade policy; controversies in trade policy

References


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
International trade, theories and policy

Law and Economics (HE67)

Discipline Specific Elective - (DSE) Credit:6

Course Objective (2-3)

While law is a non-market institution, its functioning impacts markets and non-market outcomes. By shaping incentive structure for the private individuals and the government entities, legal rules play important role in functioning of an economy. Indeed, legal rules can have astounding effects on allocation and use of resources. Besides, legal rules greatly affect the distribution of different forms of wealth. This course will illustrate how legal rules are amenable to economic analysis, and how different legal rules can lead to different outcomes in terms of allocative efficiency and distribution.

Course Learning Outcomes

This course will familiarise students with the economic approach towards thinking about the law and public policy. Students will come to recognise the law as an important organising force that influences the actions of private citizens as well as government agencies. Students will also learn how the law can support and, at times conflict with, the functioning of the market and the government, the other two important organising forces of an economy. The course will enhance critical thinking and an inter-disciplinary approach towards the law, economics, and policymaking. Thereby, the course will help to develop an inter-disciplinary approach and enhance the employability of students.

Unit 1

Law and economics: efficiency criteria in welfare economics; Coase theorem; prisoners' dilemma. Contracts; role of contracts for the functioning of markets; efficient contracts; damages measures and their efficiency properties; property rights and their role in resource allocation; Coase theorem; legal remedies for breach of property rights and their economic effects. Liability for accidents and harms; product liability; efficiency of liability rules; efficiency-compensation trade-off. Litigation - its
causes and consequences; benefits of legal certainty

Unit 2

Law and public policy; land and property; market and non-market mechanisms for allocation and transfer of land; land markets; eminent domain – the land acquisition law; land-pooling. Contracts for provisions of public goods: procurement contracts; government provisions vs. public-private partnerships; cost-quality trade-off. Intellectual Property Rights (IPRs): patents, copyright and trademarks. Cost and benefits of private IPRs; individual rights vs. common good

References


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Law, policy, economics

Money and Financial Markets (HE65)

Discipline Specific Elective - (DSE) Credit:6

Course Objective (2-3)

This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organisation, 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.

Course Learning Outcomes

This allows students to understand current monetary policies and financial market outcomes. It also enables them to critically evaluate policies.

Unit 1

Money: concept, functions, measurement; theories of money supply determination.

Unit 2

Financial institutions, markets, instruments, and financial innovations
Role of financial markets and institutions; problems of adverse selection and moral hazard; financial crises

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

Unit 3

Interest rates

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

Unit 4

Banking System

Balance sheet and portfolio management

Indian banking system: changing role and structure; banking sector reforms

Unit 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.

References

8. Various latest issues of RBI Bulletins, Annual Reports, Reports on Currency and Finance, and Reports of the Working Group, IMF Staff Papers

Teaching Learning Process

Lectures and tutorials

Assessment Methods

Internal assessment and final examination as per CBCS rules

Keywords

Money, financial institutions, financial innovations, banking, monetary policy
Open Economy Macroeconomics (HE64)

Discipline Specific Elective - (DSE) Credit:6

Course Objective (2-3)

This course intends to emphasise on how a country’s relations to the rest of the world influence aggregate economic activity, employment, exchange rate and inflation and forms the scope for monetary and fiscal policy. The course includes a thorough introduction to the foreign exchange market and a discussion of world level interactions. A major part of the course deals with the dynamic effects (effects over time) of economic shocks and policies. The course prepares the student for taking part in professional discussions about the design of monetary and fiscal policy and for any kind of work where it is important to have a good understanding of macroeconomic fluctuations (e.g. for making predictions of macro variables, for choosing investment where the return depend on macro developments) when the economies are open.

Course Learning Outcomes

The student will know how exchange rates, interest rates and capital movements between currencies are determined within different institutional settings for monetary policy (e.g. inflation targeting versus money supply targeting or exchange rate targeting), how a country’s current account balance is determined, or, which amounts to the same, how capital movements between countries are determined, how shocks emanating abroad or in the foreign exchange market affect output, employment, inflation and interest rates, how the effects of changes in fiscal and monetary policy and shifts in private sector behaviour are modified through the foreign exchange markets and foreign trade, the role of cost competitiveness in the determination of economic activity, the different responses to economic shocks in the traded-goods and non-traded goods sectors of the economy, how the effects of policy actions and economic shocks are transmitted from country to country in the world economy, and the merits of different exchange rate systems (fixed versus flexible, monetary unions). In particular, you will learn more about the effects over time as flows accumulate to stocks and as the economy moves towards long-run equilibrium. At the end of course the will acquire to analyze the effects of macroeconomic events on the future time path of the economy, analyse how forces inherent in the initial state of the economy will tend to change the economy over time, discuss how current and future events may influence the exchange rate through expectations, and come up with policy suggestions and consider their effects over time.

Unit 1


Unit 2

International Macroeconomic Policy: International Monetary Systems: An Historical Overview; Financial Globalization: Opportunity and Crisis; Optimum Currency Areas and the Euro; Developing Countries: Growth, Crisis, and Reform

References

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Open economy, international economics, exchange rate

Political Economy I (HE57)

Discipline Specific Elective - (DSE) Credit:6

Course Objective(2-3)

This course explores the systemic structures and institutions of capitalist economies and their evolution in a political economic framework. Students will be exposed to alternative schools of thought and are expected to read some classic texts and commentaries as well as more contemporary essays on the subject.

Course Learning Outcomes

This course prepares the students to develop critical thinking by exposing them to elements of economic thought, juxtaposing ideas and theoretical structures based largely on original texts and journal articles. Students learn to assimilate from a diverse range of opinions and crystallize their own thought processes and standpoints. This also helps them to develop advanced writing, presentation and research skills. It further enables them to comprehend a larger view of the world around us by analysing the existing social and political structures and their links with the economic processes. It is thus a crucial course, which exposes the social science dimension of economics to the students and also provides them skills to think and analyse in an interdisciplinary manner. The exposure to interdisciplinary thinking further enables the students for pursuing studies in diverse related areas such as development studies, economic sociology, critical geography, gender studies and social work as also for taking up employment in organisations ranging from international development agencies to development NGOs and corporate CSR. It also prepares the students to face the practical world of work, where economics, business, civil society organisations, social institutions and politics often cohabit in a complex interlinked structure.

Unit 1

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

Capitalism as an Evolving Economic System: Basic features; accumulation and crisis; monopoly
capitalism—alternative perspectives.

Unit 3

The State in Capitalism: The state and the economy – contestation and mutual interdependence; the state as an arena of conflict; imperialism – the basic foundations.

References

4. D. Harvey: Seventeen Contradictions and the End of Capitalism [Chapter 3], Oxford University Press (2014)
5. R. Heilbroner: The Nature and Logic of Capitalism [Chapter 4], W. W. Norton (1985)
10. O. Lange: Political Economy, Vol. 1 [Chapters 1 and 2], Macmillan (1963)
12. J. Schumpeter: Capitalism, Socialism and Democracy [Chapters 6, 7 and 8], George Allen and Unwin (1976)
16. V. Vakulabharanam: The recent crisis in global capitalism: Towards a Marxian understanding, Economic and Political Weekly 44, 144-150 (2009)

Additional Resources:


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Political Economy II (HE68)

Discipline Specific Elective - (DSE) Credit:6

Course Objective (2-3)

This course explores some of the fundamental structural changes and dynamics of the advanced capitalist system since the development of Fordism to the contemporary period. Particularly, the course analyses the changes in the organization of production, labour market institutions as well as shifts in corporate, managerial, financial and inter-firm governance structures. It further analyses the role of the state in the era of globalization, by studying both its changed ideological foundation and varied practices. It goes on to examine the social and geopolitical consequences of such fundamental shifts. It also integrates contemporary issues of gender and environment in a political economy framework. Though grounded in political economic traditions, the course also exposes the students to interdisciplinary thought and content. It also offers a layered and contrasting perspective to some of the issues analysed in the core theoretical courses, such as microeconomics and macroeconomics. It also provides a more global and interdisciplinary context for analyzing the issues studied in the compulsory courses on the Indian Economy and Development Economics. Whereas the course is related to the fifth semester DSE course Political Economy I, it is largely a stand-alone independent course and can be pursued without any detailed knowledge of the fifth semester course.

Course Learning Outcomes

This course exposes the students to the realities of the contemporary world economy and teaches them to develop critical analysis in an integrated and broader political economy framework. It thus enables them to form a more informed view of the world we inhabit by analyzing some of the most contemporary trends and developments from different perspectives. It also exposes the students to interdisciplinary skills and written argumentation, and prepares them for a more holistic research framework. The exposure to interdisciplinary thinking further enables the students for pursuing studies in diverse related areas such as development studies, economic sociology, critical geography, gender studies and social work as also for taking up employment in organisations ranging from international development agencies to development NGOs and corporate CSR. It also prepares the students to face the practical world of work, where economics, business, civil society organisations, social institutions and politics often cohabit in a complex interlinked structure, and employees are expected to comprehend and synthesize materials from diverse sources and perspectives.

Unit 1

Introduction and Historical Overview: Perspective on political economy with a historical overview: Capitalist development in the pre Second World War period, the ‘Golden Age’ and later.

Unit 2

Changing Dynamics of Capitalist Production, Organisational Form and Labour Process: Fordist and Post-Fordist production; The changing dynamics of the organisation of production, markets and labour process; The evolution of the multinational corporations and their economic logic; The
contemporary forms value chain networks and forms of inter-firm governance; The changing nature of employment, job security and labour rights.

Unit 3


Unit 4

The Changing Role of Finance: The changing role of finance in the dynamics of capital accumulation and the shifts in corporate structure; Financialisation: its nature and consequences.

Unit 5


Unit 6

Broader Perspectives (Gender and Environment): Dimensions of Gender in work, accumulation and globalization; Political economic issues in environment, sustainability and inequality.

References

This course will draw upon the following readings:

6. G. Dumenil, D. Levy: The Crisis of Neoliberalism [Chapter 1], Harvard University Press (2011)
11. D. Harvey: A Brief History of Neoliberalism [Introduction and chapters 1-3], Oxford University Press (2005)
15. F. Tonkiss: Contemporary Economic Sociology: Globalisation, Production, Inequality [Chapter 4], Routledge (2006; India reprint 2008)

Additional Resources:

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Fordism, globalisation, MNCs, global value chains, labour flexibility, informalisation, financialisation, corporate governance, neoliberalism, gender, feminisation, environment

Public Economics (HE53)

Discipline Specific Elective - (DSE) Credit:6

Course Objective(2-3)

Public economics is the study 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. Inherently, this study involves a formal analysis of government taxation and expenditures. The subject encompasses a host of topics including public goods, market failures and externalities. The paper is divided into two sections, one dealing with the theory of public economics and the other with the Indian public finances.

Course Learning Outcomes

The module aims to introduce students to the main theoretical and empirical concepts in public economics, equip students with a thorough analytical grasp of implications of government intervention for allocation, distribution and stabilization, and familiarise students with the main issues in government revenues and expenditure. At the end of the module the students should be able to demonstrate their understanding of the public economics. In some models, the student will be required to deal with simple algebra problems that will help them to better understand these concepts, use diagrammatic analysis to demonstrate and compare the economic welfare effects of various environmental policy options, demonstrate their understanding of the usefulness and problems related to taxation and government expenditure, and demonstrate their critical understanding of public policies.

Unit 1
Public Economic Theory: Fiscal functions: an overview; Public Goods: definition, models of efficient allocation, pure and impure public goods, free riding; Externalities: the problem and its solutions, taxes versus regulation, property rights, the Coase theorem; and Taxation: its economic effects; dead weight loss and distortion, efficiency and equity considerations, tax incidence, optimal taxation

Unit 2

Indian Public Finances: Tax System: structure and reforms; Budget, deficits and public debt; Fiscal federalism in India

References

3. S. Das: Some concepts regarding the goods and services tax, Economic and Political Weekly 52(9) (2017)

Teaching Learning Process

Lectures and Tutorials

Assessment Methods

Internal Assessment and Final Exam

Keywords

Taxation, public expenditure, federal system, India

Research Methodology (HS41)

Skill-Enhancement Elective Course - (SEC) Credit:4

Course Objective(2-3)

The course begins with the formulation of a research problem and covers the issues concerning the generation of primary sample data. In this regard the designing of a questionnaire, the methods of design of a sample and its size, the modes of data collection from direct interview to online surveys, the appreciation of possible sources of errors, and the cleaning of data forms the
bulk of the classroom instruction.

Course Learning Outcomes

The course imparts skills to undertake data based research. The student enrolling in this course would develop competency in executing sample surveys and would have reasonable exposure to a variety of secondary data sources.

Unit 1

Data types and sources: Qualitative and quantity data, measurement and scales; secondary sources of data and institutions

Unit 2

Sample questionnaires: Measurement and scales; questionnaires

Unit 3

Sample type and size: Simple random sampling; cluster sampling; stratified sampling and its complications; Determining an appropriate size

Unit 4

Errors in surveys: Misunderstanding of questions and answers; problem of non-response

Unit 5

Processing of survey data: Cleaning of data and its coding

Unit 6

Ethics and scientific integrity: Standards of conduct, privacy in data

References


Teaching Learning Process

Lectures and tutorials

Assessment Methods

Internal assessment and final examination as per CBCS rules

Keywords

Data, sampling, surveys
Data Analysis (GE31)

Generic Elective - (GE) Credit:6

Course Objective (2-3)

This is a skill enhancement course for data analysis. The students will be given hands on training on using statistical and computing software to better visualize and understand data concepts. The course is designed to be delivered through 2 classroom lectures and 4 computer lab classes per week.

Course Learning Outcomes

The course will use data simulations and publicly available data sources to help students learn about data types, their organization and visual representation. They will learn how to compute summary statistics and do some basic statistical inference.

Unit 1

Introduction to the course: How can the representation and analysis of data help us study real-world problems. Publicly available data sets.

Unit 2

Using Data: Available statistical software, steps in data storage, organization and cleaning.

Unit 3

Visualization and Representation: Alternative forms of presenting summarizing and presenting data.

Unit 4

Simple estimation techniques and tests for statistical inference

References


Teaching Learning Process

Lectures and tutorials

Assessment Methods

Internal assessment and final examination as per CBCS rules

Keywords

Data representation, statistical software, estimation
Economic History of India (GE34)

Generic Elective - (GE) Credit:6

Course Objective(2-3)

This course analyses key aspects of Indian economic development during the second half of British colonial rule. In doing so, it investigates the mechanisms that linked economic development in India to the compulsions of colonial rule.

Course Learning Outcomes

The course exposes the students to understanding the intricacies of India’s economic, political and social developments both in the past and present times. It develops analytical skills, and will be useful in a variety of careers in academics, research, journalism, private sector and government.

Unit 1

Colonial India: Background and introduction

Unit 2

Macro trends in national income, population, labour and occupational structure

Unit 3

Agriculture, agrarian structure and land relations

Unit 4

Railways and industry

Unit 5

Economy and state in the imperial context

References

Some readings may be updated from year to year.

1. B. Chatterjee: Trade, Tariffs and Empire, Oxford University Press, Epilogue (1992)

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Colonial India, agriculture, industry, demography

Game Theory (GE44)

Generic Elective - (GE) Credit:6

Course Objective(2-3)

Game theory is used in various fields, such as economics, biology, business, law, politics, sociology, and computer science. The purpose of this course is to introduce the basics of game theory to undergraduate students in various disciplines. Game Theory introduces the students to optimal decision making under an interactive settings. This course introduces the basic concepts of game theory in a way that allows students to use them in solving simple problems in various disciplines. The course will deal with the solution concepts for normal form and extensive form games along with a variety of applications. Ideas related to asymmetric information among the interacting agents would also be analysed in this course. The course ends with the application of game theory to analyse moral hazard, adverse selection and signalling problems.

Course Learning Outcomes

The students will learn how to model multi-person decision making in an interactive setting. They will understand how to formulate different real life situations as games and learn to predict the optimal strategies of players and how the players can exploit strategic situations for the benefit of their own.

Unit 1
Normal form games
The normal form; dominant and dominated strategies; dominance solvability; mixed strategies; Nash equilibrium; symmetric single population games; applications.

Unit 2
Extensive form games with perfect information

The game tree; strategies; subgame perfection; backward induction in finite games; commitment; bargaining; other applications.

Unit 3
Simultaneous move games with incomplete information

Strategies; Bayesian Nash equilibrium; applications.

Unit 4
Extensive form games with imperfect information

Strategies; beliefs and sequential equilibrium; applications.

Unit 5
Information economics

Adverse selection; moral hazard; signalling games.

References

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Normal form games, extensive form games, complete information, Nash equilibrium, subgame perfect equilibrium, incomplete information, Bayesian Nash equilibrium, sequential equilibrium

Global Political Economy (GE43)

Generic Elective - (GE) Credit:6

Course Objective(2-3)

This generic elective course introduces students to the contemporary structures, trends and developments in the Global Economy through a Political Economy lens. It explores the period since the end of Second World War up to recent global economic crisis – from the ‘Golden age of capitalism’ to the ‘neoliberal’ shift. It particularly explores changes in the organization of production and corporate structure along with changes in labour processes and labour regimes and also the increasing dominance of finance in the contemporary world. It also examines the shifts in the
nature, scope and ideology of the state under globalisation.

**Course Learning Outcomes**

This course enables students who have not studied economics at the undergraduate level to develop a critical understanding of the contemporary global economy. It enables them to form a more informed view of the world we inhabit by analyzing some of the economic trends and developments over the last five or six decades. As the economy is a crucial sphere both of social life in general and the world of work in particular, an analytical exposure to the structures, institutions and processes of the global economy will thus enrich their comprehension of the contemporary world. With such a comprehension, students from all backgrounds will thus be better prepared to face the professional world and can use the knowledge base of this course for facing the challenges of group discussions and general interviews for corporate or civil service jobs. Students of other social sciences and humanities, who intend to pursue higher studies and research, will also immensely benefit from this course by being able to develop an interdisciplinary understanding of basic economic structures and processes, which are often crucial to the understanding of their core subjects.

**Unit 1**

Introduction and overview: Perspectives on political economy of globalisation with a historical overview.

**Unit 2**

Changing dynamics of capitalist production, organisational forms and labour processes: Fordist and post-Fordist production regimes; multinational corporations – evolution, structural form and dynamics; global value chains and production networks; the changing nature of employment, job security and labour rights in a globalised economy.

**Unit 3**

The political economy of global trade: Structure and institutions of the international trade regime

**Unit 4**

The role of finance in the globalised economy: financialisation of the global economy – trends, instruments, features and consequences

**Unit 5**

The state in the era of globalisation: Globalisation and the limits of the welfare and developmental states; the neoliberal state.

**Unit 6**

Global economic instability and crisis: The 2008 global economic crisis – prelude, proximate and long term causes; possibility of recurring crises.

**References**

2. D. Chang: Informalising labour in Asia’s global factory, Journal of Contemporary Asia 39,
11. V. Vakulabharanam: The recent crisis in global capitalism: Towards a Marxian understanding, Economic and Political Weekly 44, 144-150 (March 28, 2009)

**Teaching Learning Process**
Lectures and tutorials

**Assessment Methods**
Internal assessment and final examination as per CBCS rules

**Keywords**
Fordism, globalisation, MNCs, global production networks, labour flexibility, informalisation, global trade regime, financialisation, state under globalisation, neoliberalism, economic crisis

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**Indian Economy I (GE33)**

**Generic Elective - (GE) Credit:6**

**Course Objective(2-3)**

This course reviews major trends in aggregate economic indicators in India and places these against the backdrop of major policy debates in India in the post-independence period.

**Course Learning Outcomes**

This course will help students understand the key issues related to the Indian economy. It will broaden their horizons and enable them to analyze current economic policy thus improving their chances of getting employed, and be more effective, in positions of responsibility and decision making.
The course also serves as the base for further study of sector specific policy discussion that is pursued in the course in the next semester.

Unit 1
Issues in Growth, Development and Sustainability

Unit 2
Factors in development: Capital formation (physical and human); technology; institutions

Unit 3
Population and economic development: Demographic trends; urbanisation

Unit 4
Employment: Occupational structure in the organised and unorganised sectors; open-, under- and disguised- unemployment (rural and urban); employment schemes and their impact

Unit 5
Indian development experience: Critical evaluation of growth, inequality, poverty and competitiveness, pre- and post- reform eras

References

Given the current nature of the course, the readings will be updated every year. Selected chapters will be prescribed from:


Teaching Learning Process

Lectures and tutorials

Assessment Methods

Internal assessment and final examination as per CBCS rules
Keywords
Indian economic development, government policy

Indian Economy II (GE42)

Generic Elective - (GE) Credit:6

Course Objective (2-3)

The course seeks to equip students with sector-specific knowledge and skills to analyse key economic issues and policy documents. It will also enable them to relate theoretical frameworks of macroeconomics and microeconomics to the Indian context.

Course Learning Outcomes

Students will have capability to understand government policies and will enable informed participation in economic decision making, thus improving their employment prospects and career advancement.

Unit 1

Macroeconomic policies and their Impact: Fiscal, financial and monetary policies

Unit 2

Agriculture: Policies and performance; production and productivity; credit; labour; markets and pricing; land reforms; regional variations.

Unit 3

Industry: Policies and performance; production trends; small scale industries; public sector; foreign investment, labour regulation

Unit 4

Services and trade: Trends and performance; trade and investment policy

References

Given the nature of the course, readings will be updated every year.

5. R. Chanda: services led growth, in K. Basu and A. Maertens (eds.): New Oxford Companion to Economics in India,
Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Indian economic development, government policy

Introductory Macroeconomics (GE21)

Generic Elective - (GE) Credit:6

Course Objective(2-3)

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 GDP, savings, investment, money, inflation, and the balance of payments. It also introduces students to simple analytical frameworks (e.g., the IS-LM model) for determination of
equilibrium output.

Course Learning Outcomes

This course will allow students to understand the basic functioning of the macroeconomy.

Unit 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

Unit 2
Money

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

Unit 3
Inflation

Inflation and its social costs; hyperinflation

Unit 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

References


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
GDP, BOP, money, inflation, classical model, Keynesian model

Introductory Microeconomics (GE11)

Generic Elective - (GE) Credit:6

Course Objective(2-3)
This course is designed to expose the students to the basic principles of microeconomic 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.

Course Learning Outcomes

The course introduces the students to the first course in Economics from the perspective of individual decision making as consumers and producers. The students learn some basic principles of microeconomics, interactions of supply and demand and characteristics of perfect and imperfect markets.

Unit 1
Introduction

What is microeconomics? Scope and method of economics; the economic problem: scarcity and choice; the concept of opportunity cost; the question of what to produce, how to produce and how to distribute output; science of economics; Institutions for allocating resources; the basic competitive model; prices, property rights and profits; incentives and information; rationing; positive versus normative analysis. The Scientific method; the role of assumptions; models and mathematics; why economists sometimes disagree. Interdependence and gains from trade; specialisation and trade; absolute advantage; comparative advantage and trade

Unit 2
Supply and demand: 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. Application to international trade; comparison of equilibria with and without trade, the winners and losers from trade; effects of tariffs and quotas; benefits of international trade; some arguments for restricting trade.

Unit 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

Unit 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

Unit 5
Imperfect Market Structure

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

References


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Supply, demand, elasticity, consumer behaviour, firm behaviour, perfect and imperfect markets

Money and Banking (GE32)

Generic Elective - (GE) Credit:6

Course Objective(2-3)

This course 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.

Course Learning Outcomes

This course exposes students to the theory and functioning of the monetary and financial sectors of the economy.

Unit 1
Money

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

Unit 2
Financial institutions, markets, instruments and financial innovations

Role of financial markets and institutions; problem of asymmetric information – adverse selection and moral hazard; financial crises.
Money and capital markets: organisation, structure and reforms in India; role of financial
derivatives and other innovations

Unit 3
Interest rates
Determination; sources of interest rate differentials; theories of term structure of interest rates;
interest rates in India

Unit 4
Banking system
Balance sheet and portfolio management.
Indian banking system: Changing role and structure; banking sector reforms.

Unit 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

References
2. F. Fabozzi, F. Modigliani, F. Jones, M. Ferri: Foundations of Financial Markets and
5. Various latest issues of R. B. I. Bulletins, Annual Reports, Reports on Currency and Finance
   and Reports of the Working Group, IMF Staff Papers

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Money, financial institutions, financial innovations, interest rate, banking, monetary policy

Public Finance (GE41)
Generic Elective - (GE) Credit: 6

Course Objective (2-3)
This course is a non-technical overview of government finances with special reference to India.
The course does not require any prior knowledge of economics. It will look into the efficiency and
equity aspects of taxation of the centre, states and the local governments and the issues of fiscal federalism and decentralisation in India. The course will be useful for students aiming towards careers in the government sector, policy analysis, business and journalism.

Course Learning Outcomes

The module aims to introduce students to the main concepts in public finance, equip students with a thorough analytical grasp of government taxes: direct and indirect taxes, and familiarise students with the main issues in government expenditure. At the end of the module the students should be able to demonstrate their understanding of the economic concepts of public finances, use diagrammatic analysis to demonstrate and compare the economic welfare effects of various government policy options, and demonstrate their understanding of the usefulness and problems related to government revenues and expenditures.

Unit 1

Theory: Overview of Fiscal Functions, Tools of Normative Analysis, Pareto Efficiency, Equity and the Social Welfare; Market Failure, Public Good and Externalities; Elementary Theories of Product and Factor Taxation (Excess Burden and Incidence)

Unit 2

Issues from Indian Public Finance: Working of Monetary and Fiscal Policies; Current Issues of India’s Tax System; Analysis of Budget and Deficits; Fiscal Federalism in India; State and Local Finances

References

3. S. Das: Some concepts regarding the goods and services tax, Economic and Political Weekly, 52(9), (2017)

Teaching Learning Process

Lectures and tutorials

Assessment Methods

Internal assessment and final examination as per CBCS rules

Keywords
Contemporary Economic Issues (HS42)

Skill-Enhancement Elective Courses (SEC) - Credit: 4

Course Objective (2-3)

The course seeks to familiarize students with basic concepts related to the Economic Survey and Union Budget. It aims to equip students with sufficient knowledge and skills to analyse these documents.

Course Learning Outcomes

Students will have the capability to understand government policies and will in general be informed participants in economic decision making.

Unit 1

Concepts

- Fiscal policy, areas of government spending in India
- Capital and revenue expenditure, plan and non-plan expenditures
- Deficits (fiscal, primary, revenue), impact of fiscal deficits on the economy
- Capital receipts, revenue receipts, tax and non-tax revenue, direct and indirect taxes, need for rationalisation of tax structure, Goods and Services Tax (GST)
- Actual, revised and budget estimates
- Zero-base budgeting
- Gender budgeting
- Fiscal devolution and centre-state financial relations

Unit 2

The economic survey

- Analysis of current and past policy emphasis

Unit 3

The union budget

- Need for the budget, understanding the process of budget making in India
- Analysis of fiscal and revenue deficits
- Analysis of sources of revenue and expected growth in revenue, tax simplification, improvement in administration, expansion of tax net and other measures to improve revenue receipts,
- Analysis of expenditure pattern and expected growth in expenditure, thrust areas of budget, sectors that have received higher/lower shares of expenditure, the reasons and consequences thereof, steps proposed to ensure effective spending

References

Given the nature of the course, the readings will be updated every year.

1. Centre for Budget and Governance Accountability: Recent reports
2. P. Chakraborty: Intergovernmental fiscal transfers in India, emerging trends and realities, in
5. Ministry of Finance: Economic and social classification of the budget
8. Ministry of Finance: Union Budget

Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Union budget, economic survey, government policy

Data Analysis (HS31)

Skill-Enhancement Elective Courses (SEC) - Credit: 4

Course Objective(2-3)

This is a skill enhancement course for data analysis. The students will be given hands on training on using statistical and computing software to better visualize and understand data concepts. The course is designed to be delivered through 2 classroom lectures and 4 computer lab classes per week.

Course Learning Outcomes

The course will use data simulations and publicly available data sources to help students learn about data types, their organization and visual representation. They will learn how to compute summary statistics and do some basic statistical inference.

Unit 1

Introduction to the course: How can the representation and analysis of data help us study real-world problems. Publicly available data sets.

Unit 2
Using Data: Available statistical software, steps in data storage, organisation and cleaning

Unit 3

Visualisation and Representation: Alternative forms of presenting summarising and presenting data.

Unit 4

Simple estimation techniques and tests for statistical inference

References


Teaching Learning Process

Lectures and tutorials

Assessment Methods

Internal assessment and final examination as per CBCS rules

Keywords

Data representation, statistical software, estimation

Game Theory (HE51)

Discipline Specific Elective - (DSE) Credit:6

Course Objective(2-3)

Game theory introduces the students to optimal decision making in interactive settings. This course will deal with the solution concepts for normal form and extensive form games, along with a variety of applications. Ideas related to asymmetric information among the interacting agents will also be analysed in this course. The course ends with the application of game theory to analyse moral hazard, adverse selection and signalling problems.

Course Learning Outcomes

The students will learn how to model multi-person decision making in an interactive setting. They will understand how to formulate different real life situations as games and learn to predict the optimal strategies of players and how the players can exploit strategic situations for their own benefit.

Unit 1

Normal form games

The normal form; dominant and dominated strategies; dominance solvability; mixed strategies; Nash equilibrium; symmetric single population games; applications.
Unit 2
Extensive form games with perfect information

The game tree; strategies; subgame perfection; backward induction in finite games; commitment; bargaining; other applications.

Unit 3
Simultaneous move games with incomplete information

Strategies; Bayesian Nash equilibrium; applications.

Unit 4
Extensive form games with imperfect information

Strategies; beliefs and sequential equilibrium; applications.

Unit 5
Information economics

Adverse selection; moral hazard; signalling games.

References


Teaching Learning Process
Lectures and tutorials

Assessment Methods
Internal assessment and final examination as per CBCS rules

Keywords
Normal form games, extensive form games, complete information, Nash equilibrium, subgame perfect equilibrium, incomplete information, Bayesian Nash equilibrium, sequential equilibrium