



St. Xavier's College – Autonomous Mumbai

Syllabus For 1st Semester Courses in **Economics (June 2016 onwards)**

Contents:

Theory Syllabus for Courses:

**A.Eco.1.01 - Introductory Microeconomics:
Demand and Production**

FYBA

COURSE: A.ECO.1.01

TITLE: INTRODUCTORY MICROECONOMICS - DEMAND & PRODUCTION

Learning Objectives:

1. To introduce students to analyzing microeconomic concepts quantitatively.
2. To encourage students understand the relevance of theory in the real world.

Number of Lectures: 60

UNIT I:

Introductory Concepts

[12 lectures]

1. Meaning of microeconomics and the conception of equilibrium.
2. Basic mathematics: Limits, functions and introduction to derivatives.
3. Basic statistics: Introduction to regression analysis

UNIT II:

Consumer Behaviour

[18 lectures]

1. Indifference Curve Analysis: Consumer's equilibrium, Income, Price and Substitution Effects.
2. Revealed Preference
3. Elasticity of Demand: Price, Income, Cross and Promotional
4. Consumer's Surplus

UNIT III:

Theoretical Aspects of Production

[15 lectures]

1. Law of Variable Proportions
2. Isoquants, Iso-cost lines and producer's equilibrium
3. Returns to Scale: Economies and Diseconomies of Scale
4. Cobb-Douglas Production Function

UNIT IV:

Revenue and Cost Analysis

[12 lectures]

1. Cost Analysis: Concepts of Marginal Cost, Average cost, mathematical treatment
2. Revenue Analysis: Concept of Marginal and Average Revenue, mathematical treatment.

First C.I.A.: MCQ-Test

Second C.I.A.: Project(designed to test application of theory to urban informal enterprises)

List Of Recommended Reference Books

Basic Reference Book

Mankiw, N. G. (2002), Principles of Economics, Thomson Asia Pte. Ltd., Singapore.

Additional References:

1. Ahuja, H. L. (2012), Advanced Economic Theory, S. Chand & Company, New Delhi.
2. Koutsoyiannis, A. (1980) Modern Microeconomics, Macmillan Press Ltd, London.
3. Lipsey and Chrystal (2004), Economics, Oxford University Press.
4. Samuelson P. A. & W. D. Nordhaus (1998), Economics, Tata McGraw Hill, New Delhi.
5. Salvatore, D. (2003), Microeconomics, Oxford University Press.



St. Xavier's College – Autonomous Mumbai

Syllabus For 2nd Semester Courses in **Economics** (June 2016 onwards)

Contents:

Theory Syllabus for Courses:

A.Eco.2.01 - Introductory Microeconomics:

Pricing Theories – Product Market

FYBA

COURSE: A.ECO.2.01

**TITLE: INTRODUCTORY MICROECONOMICS: PRICING THEORIES -
PRODUCT MARKETS**

Learning Objectives:

1. To introduce students to analyzing microeconomic concepts quantitatively.
2. To encourage students understand the relevance of theory in the real world.

Number of Lectures: 60

UNIT I:

Theory of the firm

[10 lectures]

1. Objectives of the firm (Profit and Sales Maximisation)
2. Break even analysis
3. Pricing methods (Marginal Cost and Full Cost Analysis)

UNIT II:

Market Structures

[20 lectures]

1. Short-run and long-run equilibrium of a firm under Perfect Competition
2. Short-run and long-run equilibrium of a Perfectly Competitive Industry
3. Short-run and long-run equilibrium of Monopoly; Discriminating Monopoly, Dumping
4. Short-run and long-run equilibrium of firm and industry under Monopolistic Competition

UNIT III:

Factor Markets

[20 lectures]

1. Factor pricing in perfectly and imperfectly competitive markets.
2. Wage determination; Collective Bargaining
3. Risk, Uncertainty and Profits
4. Economic Rents

UNIT IV:

Choice under Uncertainty

[10 lectures]

1. Expectations and expected utility
2. Concept of risk-aversion.
3. Jensen's inequality.
4. Insurance and risk-aversion.

Reference for choice under uncertainty: Sampat Mukherjee. *Microeconomics*

First C.I.A. : MCQs

Second C.I.A. : Presentations of Project (the theme of the project is 'Experiencing the real market')

List Of Recommended Reference Books

Basic Reference Book

Mankiw, N. G. (2002), Principles of Economics, Thomson Asia Pte. Ltd., Singapore.

Additional References:

1. Ahuja, H. L. (2012), Advanced Economic Theory, S. Chand & Company, New Delhi.
2. Koutsoyiannis, A. (1980) Modern Microeconomics, The Macmillan Press Ltd, London.
3. Lipsey and Chrystal (2004), Economics, Oxford University Press.
4. Salvatore, D. (2003), Microeconomics, Oxford University Press.
5. Paula J. Meske. The Solid Waste Dilemma: Municipal Liability and Household Hazardous Waste Management in Journal of Environmental Law. Volume: 23. Issue: 1. Jan, 1993

St. Xavier's College – Autonomous Mumbai

Syllabus For 3rd Semester Core and Applied Courses in **Economics (June 2019 onwards)**

Contents:

Theory Syllabus for Courses:

A.ECO.3.01 Macroeconomic Analysis-I

A.ECO.3.02 Introductory Econometrics –I

AC.3.01 Elementary Statistical Techniques

SYBA

Course: A.ECO.3.01

Title: Macro Economics Analysis – I

Learning Objective:

To familiarize students with theoretical macroeconomic analysis and to introduce quantitative application of macroeconomic analysis to data on the Indian economy

Number of Lectures: 45

UNIT I: Introduction

[15 lectures]

1. Distinction between the concepts of short-run and the long-run
2. Concepts of national income and methods of measurement of national income
3. Price Indices: Construction of Price Indices, and distinction between levels and rates of change of indices
4. Concept of unemployment, and measurement of unemployment, with emphasis on the Indian context

UNIT II: The Classical model of output and employment

[15 lectures]

1. Determination of output and employment
2. Say's Law
3. Demand for money in the Classical Approach
4. Value of Money: Quantity Theory of Money, Friedman's version of Quantity Theory

UNIT III: The Keynesian system of output and employment

[15 lectures]

1. Keynesian Aggregate Demand, Aggregate Supply and Effective Demand
2. Keynesian Consumption Function
3. Investment Function and the multiplier
4. Keynesian Demand for money, Speculative and Transaction Demands; Tobin's theory of demand for money

Basic Reference Books:

1. D'Souza, Errol: *Macroeconomics*. (2nd ed.) New Delhi. Dorling Kindersley (India) Pvt. Ltd, 2012. 978-81-317-6101-4--(339D'So)
2. Mankiw, N. Gregory: *Principles of macroeconomics*. (6th ed. Indian Reprint) Delhi. Cengage Learning India Private Limited, 2012(2015). 978-81-315-1821-2--(339Man)
3. Snowdon and Howard Vane. *Macroeconomics*.

SYBA

Course: A.ECO.3.02

Title: Introductory Econometrics– I

Learning Objective: To equip students with basic econometric skills required for applied research in Economics.

Number of Lectures: 45

Unit 1: Classical Linear Regression Model

[15 Lectures]

Types of Data: Cross-Section, Time Series, Panel Data, Nominal, Ordinal, Nominal, Real; Steps in Empirical Econometric Analysis; Concept of Population Regression Function and Sample Regression Function; Assumptions underlying Classical Linear Regression Model

Unit 2: Ordinary Least Squares Estimation

[15 Lectures]

Derivation of OLS estimators; Analysis of Variance; Coefficient of Determination R^2 ; Properties of OLS Estimators: Gauss Markov Theorem

Unit 3: Interval Estimation and Hypothesis Testing

[15 Lectures]

Testing hypothesis about a single parameter: Confidence Interval Approach and Test of Significance Approach, One tail and two tail test, Type I and Type II Errors, Concept of Level of Significance.

Basic Reference:

Gujarati, Damodar and Sangeetha, Basic Econometrics, McGraw Hill, Fifth Edition (2011).

References:

1. Chris Brooks, Introductory Econometrics for Finance, Cambridge University Press, Second Edition (2008).
2. Christopher Dougherty, Introductory Econometrics, Oxford University Press, Fourth Edition (2011).
3. Dominick Salvatore and Derrick Reagle, Theory and Problems of Statistics and Econometrics, Schaum's Outline Series, McGraw Hill, Second Edition (2002).
4. G.S. Maddala, Introduction to Econometrics, Macmillan Publishing, Second Edition (1992)
5. James Stock and Mark Watson, Introduction to Econometrics, Pearson, Third Edition (2011).
6. Jan Kmenta, Elements of Econometrics, Macmillan Pub., Second Edition (1986).
7. Jeffrey Wooldridge, Introductory Econometrics, Cengage Learning, Fourth Edition (2009).
8. Michael Intriligator, Econometrics Models, Techniques and Applications, Prentice

SYBA

Course: AC.3.01

Title: Elementary Statistical Techniques

Learning Objective: The central objective of the paper is to equip students with requisite statistical skills for data analysis.

Number of Lectures: 60

Unit 1: Measures of Central Tendency and Dispersion

[30 Lectures]

Graphical Representation of Categorical and Numerical data; Describing Location of a Distribution: Arithmetic Mean, Geometric Mean, Harmonic Mean, Median, Mode, Deciles, Quartiles, Locating Median from Histogram; Describing Dispersion of a Distribution: Range, Mean Deviation, Variance and Standard Deviation; Describing Shape of a Distribution: Skewness and Kurtosis.

Unit 2: Describing Individuals in Distribution

[10 Lectures]

Percentile Ranks; Percentiles with ungrouped scores; Standardization: Common scales of Measurement.

Unit 3: Bivariate Analysis

[10 Lectures]

Quantitative Description of Statistical Relation: Covariance, Karl Pearson's Correlation Coefficient, Spearman's Rank Correlation Coefficient.

Unit 4: Probability

[10 Lectures]

Classical and Relative Frequency Approach to Probability; Addition and Multiplication Laws of Probability; Conditional Probability and Bayes Theorem.

Assessment:

CIA-1: Written Test

CIA-2: Assignment

Basic Reference:

Richard Levin, Statistics for Management, Seventh Edition(2012).

Additional Reference:

S.P. Gupta, Statistical Methods, 43rd Edition(2014).

St. Xavier's College – Autonomous Mumbai

Syllabus For 4th Semester Core and Applied Courses in

Economics (June 2019 onwards)

Contents:

Theory Syllabus for Courses:

A.ECO.4.01 Macroeconomic Analysis-II

A.ECO.4.02 Introductory Econometrics –II

AC.4.01 Elementary Mathematical Techniques

SYBA

Course: A.ECO.4.01

Title: Macroeconomic Analysis-II

Learning Objectives: To familiarize students with theoretical macroeconomic analysis

Number of Lectures: 45

Unit 1: ISLM Analysis (15 Lectures)

- Derivation of ISLM curves, mathematical treatment of ISLM curves
- Determination of product market and money market equilibrium interest rates and income
- Factors affecting position and slope of ISLM curves

Unit 2: Fiscal and Monetary Policy (15 Lectures)

- Explanation of fiscal policy using ISLM curves.
- Phenomenon of Crowding out and criticisms
- Explanation of monetary policy using ISLM curves
- Liquidity Trap

Unit 3: Open Economy Macroeconomics (15 Lectures)

- Fixed vs Flexible Exchange Rate. Concept of Real Exchange Rate
- Mundell-Fleming Model. Impossible Trinity
- Disequilibrium in Balance of Payments. Adjustment in Balance of Payments: Devaluation, Reduction in Absorption, Direct controls
- Global financial and economic crises

Basic Reference:

D'Souza Errol, (2012), Macroeconomics, Dorling Kindersley India pvt. Ltd.-Pearson Education, second edition

Mankiw Gregory,(2007), Principles of Macro Economics, Cengage Learning India Private ltd. New Delhi, Fourth edition

SYBA

Course: A.ECO.4.02

Title: Introductory Econometrics–II

Learning Objective: To deepen and broaden student's knowledge and understanding of basic econometric techniques needed for empirical quantitative analysis.

Number of Lectures: 45

Unit 1: Extensions of Two Variable Linear Regression Models [15 lectures]

Regression through the Origin Model; Semi-log Model; Double-log Model; Measuring Elasticity and Growth Rates; Polynomial Models; Reciprocal Models: Log Hyperbola or Logarithmic, Reciprocal Models.

Unit 2: Multiple Linear Regression Model [10 Lectures]

Interpretation of Partial Regression Coefficients; Interval Estimation and Hypothesis Testing: Testing Hypothesis about a single Population Parameter: The t test, Testing Multiple Linear Restrictions: The F test

Unit 2: Failure of Classical Assumptions: [10 lectures]

Heteroscedasticity- Consequences for OLS; Testing for Heteroscedasticity- Informal Methods and Formal Methods: Park Test, Spearman's Rank Correlation Test, Goldfeld-Quandt Test, Breusch-Pagan-Godfrey Test, White's Test; Remedial Measures
Multicollinearity- Consequences; Detection and Remedial Measures
Autocorrelation: Consequences of using OLS in the presence of Autocorrelation; Detection of Autocorrelation: Graphical Methods, The Runs Test, Durbin- Watson Test; Correcting for Autocorrelation: The Method of Generalized Least Squares.

Unit 3: Simultaneous Equation Models [10 Lectures]

Nature of Simultaneous Equation Models; Simultaneity Bias in OLS; The Identification Problem: The Order Condition of Identifiability; Test of Simultaneity: Hausman Specification Test; Estimation of Simultaneous Equation Models: Recursive Models and OLS, The Method of Indirect Least Squares, Instrumental Variables, The Method of Two-Stage Least Squares

Unit 4: Model Specification [05 Lectures]

Types of Specification Errors: Omission of a relevant variable; Inclusion of an irrelevant variable, Functional form misspecification; Tests of specification errors;
Model Selection Criteria: R^2 ; Adjusted R^2 ; Akaike Information Criterion; Schwarz Information Criterion

References:

1. Chris Brooks, Introductory Econometrics for Finance, Cambridge University Press, Second

- Edition(2008).
2. Christopher Dougherty, Introductory Econometrics, Oxford University Press, Fourth Edition(2011).
 3. G.S. Maddala, Introduction to Econometrics, Macmillan Publishing, Second Edition (1992)
 4. Gujarati,Damodar and Sangeetha, Basic Econometrics, McGraw Hill,Fifth Edition (2011)
 5. James Stock and Mark Watson, Introduction to Econometrics, Pearson, Third Edition (2011)
 6. Jan Kmenta, Elements of Econometrics, Macmillan Publishing, Second Edition (1986)
 7. Jeffrey Wooldridge, Introductory Econometrics, Cengage Learning, Fourth Edition (2009)
 8. Marno Verbeek, A Guide to Modern Econometrics, John Wiley, Second Edition (2004)
 9. Michael Intriligator, Econometrics Models, Techniques and Applications, Prentice Hall, Second Edition(1996)
 10. Ronald Wonnacott and Thomas Wonnacott, Econometrics, John Wiley, Second Edition (1979)

SYBA

Course: AC.4.01

TITLE: ELEMENTARY MATHEMATICAL TECHNIQUES

Learning Objective: The central objective of the paper is to equip students with quantitative methods used in the field of social sciences.

Number of Lectures: 60

Unit 1: Matrix Algebra

[15 Lectures]

Transitional Probability Matrix, Encoding and Decoding Matrix, Input-Output Analysis.

Unit 2: Linear Programming Problem

[25 Lectures]

Assignment Problem, Production Planning and Personnel Scheduling Problem, Interpretation of Dual Variables, Solution of Linear Programming Problem: Graphical Method and Simplex Method

Basic Feasible Solution of a Transportation Problem: North-West Corner Rule, Minimum Cost Rule, Vogel's Approximation Rule.

Unit 3: Elementary Calculus and Applications

[15 Lectures]

Limits and Derivatives, Applications: Optimisation; Simple and Compound Interest; Continuous Compounding; Discounting.

Unit 4: Game Theory

[05 Lectures]

Pay-off Matrix, Minimax and Maximin Principle, Saddle Point.

CIA-1: Written Test

CIA-2: Written Test

Basic Reference:

Borwankar Pratibha, Mathematical Techniques for Economics, Sheth Publishers.

Additional Reference:

Saul I.Gass, An Illustrated Guide to Linear Programming Problem(2013).

St. Xavier's College – Autonomous Mumbai

Syllabus For 5th Semester Core and Applied Courses in **Economics (June 2019 onwards)**

Contents:

Theory Syllabus for Courses:

A.Eco.5.01 Microeconomics: Theory and Practice

A.Eco.5.02 Principles of Microeconomics

A.Eco.5.03 Growth and Development: Theoretical Analysis

A.Eco.5.04 Approaches to Growth and Development

A.Eco.5.05 Evolution of Economic Thought

A.Eco.5.06 International Economics: Theory and Policy

A.Eco.5.07 Statistical Techniques for Economics

A.Eco.5.08 Advanced Econometrics- I

A.Eco.5.09 Corporate Finance - I

A.Eco.5.10 Indian Financial System and Institutions

TYBA

Course: A. ECO.5.01

TITLE: MICROECONOMICS: THEORY AND PRACTICE

Number of Lectures: 60

Learning Objectives:

1. To help students understand the analytical aspects of Oligopoly markets
2. To introduce students to the concept of General Equilibrium and the Economics of Information

UNIT I: Price and Output under Oligopoly

[15 Lectures]

1. Features of Oligopoly market
2. Cournot's model, Kinked Demand Curve Hypothesis, Collusion: Cartels and Price Leadership.
3. Game Theory: Nash Equilibrium and Prisoner's Dilemma.
4. Review of some oligopolistic markets

UNIT II: Theory of Factor Pricing

[15 Lectures]

1. Factor Pricing in Perfectly and Imperfectly Competitive Markets.
2. Wage Determination under Collective Bargaining, Bilateral Monopoly.
3. Loanable Funds Theory,
4. Risk, Uncertainty and Profits.
5. Review of labour markets in some selected countries

UNIT III: General Equilibrium and Social Welfare

[15 Lectures]

1. Interdependence in the economy;
2. General Equilibrium and its existence.
3. The Pareto Optimality Criterion of Social Welfare, Marginal Conditions for a Pareto Optimal Resource Allocation, Perfect Competition and Pareto Optimality.
4. Review of case studies in selected industries

UNIT IV: Economics of Information

[15 Lectures]

1. Economics of Search: Search costs.
2. Information failure and missing markets.
3. The Efficiency Wage Theory.
4. Review of asymmetric information in the market for Lemons and Insurance and . Adverse selection: Market Signalling. The Problem of Moral Hazard.
5. The Principal-Agent Problem in Private and Public Enterprises.

First C.I.A.: Short Answers and numerical application of UNITs 1/2

Second C.I.A.: Group reports on a study of market for lemons, the insurance market, bargaining

and Auctions in Mumbai city

Basic Reference Books:

1. Pindyck, R, Rubinfeld and Mehta (2011), *Microeconomics*, Pearson Prentice Hall, 7th Edition
2. Salvatore, D., (2006) *Microeconomics: Theory and Applications*, Oxford University Press, New Delhi.

Additional References

1. Koutsoyannis, A. (1989) *Modern Microeconomics*, Macmillan, London
2. Mankiw, N. Gregory (2003), *Principles of Economics*. (6th Edition), Worth Publishers, New York.
3. Varian R. Hal, (2010) *Intermediate Microeconomics*, W. W. Norton and Co.

TYBA

Course: A. ECO.5.02

TITLE: PRINCIPLES OF MICROECONOMICS

Learning Objectives:

1. To help students understand the analytical aspects of Oligopoly markets
2. To introduce students to the concept of General Equilibrium
3. To acquaint students to Economics of Information.

Number of Lectures: 60

UNIT I: Price and Output Under Oligopoly

[15 Lectures]

1. Features of Oligopoly market,
2. Models of Oligopoly Markets.
3. Introduction to Game Theory

UNIT II: Theory of Factor Pricing

[15 Lectures]

1. Factor Pricing in Perfectly and Imperfectly Competitive Markets.
2. Economic Rent.
3. Wage Determination under Collective Bargaining, Bilateral Monopoly.
4. Loanable Funds Theory,
5. Risk, Uncertainty and Profits.

UNIT III: General Equilibrium and Social Welfare

[15 Lectures]

1. Interdependence in the economy;
2. General Equilibrium and its existence.
3. The Pareto Optimality Criterion of Social Welfare, Marginal Conditions for a Pareto Optimal Resource Allocation, Perfect Competition and Pareto Optimality.

UNIT IV: Introduction to Information Economics

[15 Lectures]

1. Economics of Search: Search costs.
2. Information failure and missing markets.
3. The Efficiency Wage Theory.

First C.I.A.: Short Answers and numerical application of units 1/2

Second C.I.A.: Group reports: Study Mumbai market for lemons, insurance, bargaining and auctions

Basic Reference Books:

Varian R. Hal, (2010) *Intermediate Microeconomics*, W. W. Norton and Co.

Salvatore, D., (2006) *Microeconomics: Theory and Applications*, Oxford University Press, New Delhi.

Additional References:

1. Koutsoyannis, R. *Modern Microeconomics*, Macmillan, London
2. Mankiw, N. Gregory (2003), *Principles of Economics*. (6th Edition), Worth Publishers, New York.
3. Ahuja H. L., (2009), *Advanced Economic Theory: Microeconomic Analysis*, (17th Edition.) S Chand and Co. Ltd. New Delhi.

TYBA

Course: A. ECO.5.03

TITLE: GROWTH AND DEVELOPMENT: THEORETICAL ANALYSIS

Learning Objectives:

1. To introduce the students to the concepts and debates regarding growth and development.
2. To acquaint the students to the Classic theories of growth and development

Number of Lectures: 60

UNIT I: Meaning of Development and Relevant Concepts [15 lectures]

1. Distinction between growth and development
2. Human Development Index and Gender Development Index
3. Sen's capabilities approach, environmental sustainability and development
4. Market and State as agencies of development

UNIT II: Classical Theories of Development [15 lectures]

1. Rostow's stages of growth
2. Schumpeter's Theory of Development
3. Harrod-Domar growth model
4. Structural change and Lewis' model of unlimited supplies of labour
5. Solow's growth theory

UNIT III: Contemporary Models of Development and Underdevelopment [15 lectures]

1. Theories of endogenous growth with special reference to Romer's model
2. Multiple Equilibria
3. Big Push Theory
4. Liebenstein's Theory of Critical Minimum Efforts

UNIT IV: Poverty, Inequality and Development [15 lectures]

1. Measurement of poverty – absolute and relative, Head-Count Index and Poverty Gap Indices
2. Millennium Development Goals
3. Measurement of income inequality
4. Economic growth and income inequality – Kuznet's inverted U hypothesis
5. Impact of inequality on development

First CIA: short answers and concepts

Second CIA: group presentations on models

Basic Reference Book:

Todaro, Michael P. and S. C. Smith. *Economic Development*, 8e. Delhi: Pearson Education, 2011.

Additional References:

1. Misra, S.K. and Puri. *Growth and Development*. Mumbai: Himalaya Publishers, 2005.
2. Thirlwall, A.P. *Growth and Development* 8e. New York: Palgrave MacMillan, 2005.
3. Meier, Gerald M. and James E. Rauch. *Leading Issues in Economic Development*, 8e. New Delhi: Oxford Univ. Press.

TYBA

Course: A. ECO.5.04

TITLE: APPROACHES TO GROWTH AND DEVELOPMENT

Learning Objectives:

1. To introduce the students to the concepts and debates regarding growth and development.
2. To acquaint the students to the Classic theories of growth and development

Number of Lectures: 60

UNIT I: Meaning of Development and Relevant Concepts [15 lectures]

1. Distinction between growth and development
2. Human Development Index and Gender Development Index
3. Sen's capabilities approach, environmental sustainability and development
4. Market and State as agencies of development

UNIT II: Classical Theories of Development [15 lectures]

1. Rostow's stages of growth
2. Schumpeter's Theory of Development
3. Harrod-Domar growth model
4. Structural change and Lewis' model of unlimited supplies of labour

UNIT III: Contemporary Models of Development and Underdevelopment [15 lectures]

1. Underdevelopment as co-ordination failure
2. Multiple Equilibria
3. Big Push Theory
4. Liebenstein's Theory of Critical Minimum Efforts

UNIT IV: Poverty, Inequality and Development [15 lectures]

1. Measurement of poverty – absolute & relative, Head-Count Index and Poverty Gap Indices
2. Millennium Development Goals
3. Measurement of income inequality
4. Economic growth and income inequality – Kuznet's inverted U hypothesis
5. Impact of inequality on development

First CIA: short answers and concepts

Second CIA: group presentations on models

Basic Reference Book:

Todaro, Michael P. and S. C. Smith. *Economic Development*, 8e. Delhi: Pearson Education, 2011.

Additional References:

1. Misra, S.K. and Puri. *Growth and Development*. Mumbai: Himalaya Publishers, 2005.

2. Thirlwall, A.P. *Growth and Development* 8e. New York: Palgrave MacMillan, 2005.
3. Meier, Gerald M. and James E. Rauch. *Leading Issues in Economic Development*, 8e. New Delhi: Oxford Univ. Press.
4. Various Human Development Reports

TYBA

Course: A. ECO.5.05

TITLE: EVOLUTION OF ECONOMIC THOUGHT

Learning Objectives:

1. To acquaint the student with connect between changes in economic thought and changes in the economy and economic policy (Western & Indian).
2. To engage the students with the evolution of economic philosophies, ideas and theories – covering orthodox and heterodox economic thinkers through the ages.

Number of Lectures: 45

UNIT I: An Introduction to Economic Thought [9 Lectures]

1. Significance of the study the history of economic thought (Western & Indian)
2. Pre-Classical Mercantilism and Physiocracy.

UNIT II: Classical and Neo-Classical Economic Thought [18 Lectures]

1. Late 1700s to 1850: Adam Smith, David Ricardo, Malthus
2. 1850 to World War II: J.S. Mills, Jevons, Walras, Marx and Marshall, Dadabhai Nauroji, M G Ranade and Gopal Krishna Gokhale
3. 1936 to 1980: Keynes, Schumpeter, Joan Robinson, Leontieff , M N Roy, Mahatma Gandhi, Jawaharlal Nehru and B R Ambedkar

UNIT III: Post-Keynesian Economic Thought [18 Lectures]

1. Hayek, Friedman, Samuelson
2. Gunnar Myrdal, Amartya Sen, Joseph Stiglitz, Jagdish Bhagvati and Jean Dreze

First CIA: MCQs Test

Second CIA: Project work through Case Studies.

Basic Reference Book

Roll, Eric, A History of Economic Thought, Faber, London, (1973)

Additional References

1. Blaug, M, Economic Theory in retrospect, Cambridge University Press, Cambridge, (1997)
2. Dasgupta A.K., Epochs of Economic Theory , Oxford Univ Press New Delhi, (1985)
3. Ekelund and Hebert, A History of Economic Theory and Method, McGraw Hill Publication Co. New York, (1990)
4. Foley, Duncan, „Understanding Capital: Marx“s Economic Theory“, chapters 6 and 8, Cambridge, Mass.: Harvard University Press, 1986.
5. Ghosh and Ghosh; Concise History of Economic Thought, Himalaya
6. Haney, Lewis H., History of Economic Thought, Surjeet Publication, New Delhi, (1977)

7. Heilbroner, Robert, *The Worldly Philosophers* (7th edition), New York: Simon & Schuster, (1999)
8. Hunt E.K., *History of Economic Thought*, Wodsworth, (1990)
9. John Kenneth Galbraith, *A History of Economics: The Past as the Present*, London: Hamish Hamilton, (1987).
10. Max Weber, "Objectivity and Understanding in Economics" in *The Philosophy of Economics: An Anthology*, second edition, ed. Daniel M. Hausman, Cambridge: Cambridge University Press, (1994).
11. Morgan M. S, *A History of Economic Ideas*, Cambridge Univ Press. U.K, (1990)
12. Oser Jacob and S. Brue, *The Evolution of Economic Thought*, Harcourt, New York, (1988)
13. Overton H. Taylor, *A History of Economic Thought*, New York: McGraw-Hill Book Company, (1960), 322-336
14. Schumpeter, „History of Economic Analysis“, 209-215, 223-243, 335-372.
15. Seligman B.S, *Main Currents in Modern Economics*, Quadrangle, Chicago, (1962)
16. Serepanti E and Zamagui Stefano, *An Outline of Economic Thought*, OUP
17. Spiegel H.W., *The Growth of Economic Thought*, N.C .Duke Univ, Durham, (1971)
18. Vohra P. and R. Mehta: *Encyclopaedia of World Great Economists*, Commonwealth

TYBA

Course: A. ECO.5.06

TITLE: INTERNATIONAL ECONOMICS: THEORY AND POLICY

Learning Objective:

To acquaint students with the various aspects international trade policies

Number of Lectures: 45

UNIT I: International Trade Theories and Factor Movements [15 lectures]

1. Importance of International economics
2. Benefits of foreign trade and foreign investment
3. Comparative Cost Advantage Theory including Taussig's restatement
4. Misconceptions about comparative advantage: Pauper labor argument
5. Factor endowments theory of international trade: H.O. theorem, Empirical evidence on H.O. model, Leontieff's Paradox.
6. Factors determining labor and capital mobility, International trends in labor mobility & migration, Wage convergence.

UNIT II: Trade Policies [20 lectures]

1. Free trade and Efficiency
2. Case for protectionism
3. Strategies of trade and growth: import – substituting industrialization and export – oriented industrialization
4. Tariff: Theory of optimum tariff
5. Theory of customs union: Trade creation and trade diversion
6. Non-Tariff barriers: Export subsidies, import quotas, voluntary export restraint, preferential trading agreement, commodity agreements
7. Foreign Investment Policy.

UNIT III: Post-WTO Trade Policies [10 lectures]

1. Trade liberalization under WTO
2. Controversies in trade policies – with reference to labor standards, environment, issues under TRIPS and GATS, Dispute settlement body of WTO.

First CIA :Short Answers and Concepts

Second CIA :Group Assignments

Basic Reference Book :

Salvatore Dominick, (2001) International Economics (7th Edition), John Wiley & Sons

Additional Reference Books:

- 1.Cherunilam Francis International Economics (4th Edition) 2006 Tata McGraw-Hill Companies
- 2.Krugman International - Pearson Paul R. &Obstfeld Maurice Economics - Theory & Policy (6th Edition) Education
- 3.Sodersten BO & Reed Geoffrey International Economics 2003 McMillan Press Ltd.
- 4.Bhagawati Jagdish In Defence of Globalisation 2004 Oxford University Press
5. Sarma P.V. &MohanaRao L.K. New Trade Policy and W.T.O 2005 Kanishk Publishers New Delhi
6. Chaudhary N.V. Asian Economic Crisis: Perspectives & Implications 2005 The ICFAI University Press

TYBA

Course: A.ECO.5.07

TITLE: STATISTICAL TECHNIQUES FOR ECONOMICS

Learning Objective: The central objective of the paper is to familiarize students with fundamental statistical techniques required for economic applications.

Number of Lectures: 60

Unit 1: Probability Distributions

[25 Lectures]

Discrete Distributions: Binomial, Poisson; Expected Value and Variance; Standardized Binomial Random Variable; Continuous Probability Distributions: Normal Distribution

Unit 2: Statistical Inference

[25 Lectures]

Sampling Distributions; Hypothesis Testing: Type I and Type II Errors, Power of a Test, Testing about one and two population means for small and large samples(z and t distributions), Testing hypotheses about population variances(Chi-square and F distributions)

Unit 3: Jointly Distributed Random Variables

[10 Lectures]

Joint and Marginal Distributions; Conditional Probability, Conditional Expectation, Conditional Variance, Covariance and Correlation.

Basic Reference:

Richard Levin, Statistics for Management, Seventh Edition(2012).

Additional Reference:

S.P. Gupta, Statistical Methods, 43rd Edition(2014).

Jay Devore, Probability and Statistics for Engineering and the Sciences, Cengage(2010).

Perry Hinton, Statistics Explained, Routledge(2014).

Seymour Lipschutz, Schaum's Outline of Probability and Statistics, McGraw Hill(2017).

TYBA

Course: A.ECO.5.08

TITLE: ADVANCED ECONOMETRICS- I

Learning Objective: The central objective of the paper is to familiarize students with advanced Econometric techniques for Economic Applications

Number of Lectures: 60

Unit 1: Binary Data

[25 Lectures]

ANOVA Models; ANCOVA Models; Interaction Effects; Piecewise Linear Regression; Use of Dummy Variables in Seasonal Analysis

Unit 2: Limited Dependent Variables

[25 Lectures]

Linear Probability Model; Logit Models; Probit Models

Unit 3: Panel Data

[10 Lectures]

Introduction to Panel Techniques; Fixed Effects Estimation; Random Effects Models

Basic Reference:

Gujarati, Damodar and Sangeetha, Basic Econometrics, McGraw Hill, Fifth Edition (2011)

Additional References:

Christopher Dougherty, Introductory Econometrics, Oxford University Press, Fourth Edition, (2011)

Jan Kmenta, Elements of Econometrics, Macmillan Publishing, Second Edition (1986)

Ronald Wonnacott and Thomas Wonnacott, Econometrics, John Wiley, Second Edition (1979)

Michael Intriligator, Econometrics Models, Techniques and Applications, Prentice Hall, Second Edition (1996)

Chris Brooks, Introductory Econometrics for Finance, Cambridge University Press, Second Edition (2008)

A. Koutsoyiannis, Theory of Econometrics, Palgrave Macmillan, Second Edition (2001)

Jeffrey Wooldridge, Introductory Econometrics, Cengage Learning, Fourth Edition (2009)

G.S. Maddala, Introduction to Econometrics, Macmillan Publishing, Second Edition (1992)

Marno Verbeek, A Guide to Modern Econometrics, John Wiley, Second Edition (2004)

James Stock and Mark Watson, Introduction to Econometrics, Pearson, Third Edition (2011)

Joshua Angrist and J. Pischke, Mostly Harmless Econometrics: An Empiricist's Companion, Princeton University Press (2009)

TYBA

Course : A.ECO.5.09

TITLE: CORPORATE FINANCE – I

Learning Objectives:

1. To impart a basic understanding of Basics of Corporate Finance
2. To help student enhance their ability to apply the theoretical aspects to the problems of the real world.

Number of Lectures: 45

UNIT I: Introduction to Corporate Finance

[15 Lectures]

1. Corporate Finance: Meaning
2. Corporate Finance: Principles
3. Balance Sheet, Profit & Loss A/c, Cash flow Financial Statements and Ratio Analysis
4. Merger and Acquisition

UNIT II: Sources of Corporate Finance

[15 Lectures]

1. Raising funds by private and publicly-traded firms
2. Short and long term: equity and debentures
3. Internal and External sources: Retained Earnings, Equity v/s Debt Financing.
4. Banks and Institutional Debt: Hybrid and Lease Financing

UNIT III: Dividend Policy

[15 Lectures]

1. Dividends: Meaning, Types, process, determinants and policies
2. Relevance / Irrelevance of dividends
3. Low and high pay-out ratios
4. Alternatives to cash dividends: scrip dividends, Stock Repurchases and Stock Splits

First CIA :Short Answers and Concepts

Second CIA :Group Presentation

Basic Reference Books:

1. Hay D. A. and Moriss D., (1979), Industrial Economics, Oxford University Press
2. I M Pandey, Financial Management, Ninth Edition

Additional References Books:

1. Bodie, Z. et al., (2009), Financial Economics, Pearson Education, New Delhi.
2. Damodaran, Aswath, (2007): Corporate Finance Theory & Practice, Wiley Series, New York
3. Rustogi, R. P., (2005): Financial Management, Galgotia Publishing Co.: New Delhi.
4. Chandra, Prasanna, (1993): Fundamentals of Financial Management, Tata McGraw–Hill Publishing Co. Ltd.: New Delhi.
5. Chandra, Prasanna, Finance Sense, Tata McGraw-Hill Publishing Co, Ltd.: New Delhi

6. Brealy, Meyer, Principles of Corporate Finance 8th edition, Tata-McGraw-Hill, New Delhi.
7. Kuchhal S. C., (2005), Financial Management, Chaitanya Publishing House: Allahabad.
8. Mathur, B. L., (2001): Elements of Finance, R.B.S.A. Publishers: Jaipur

TYBA

Course: A.ECO.5.10

TITLE: Indian Financial System and Institutions

Learning Objective: To introduce students to the Indian financial system and financial institutions and services in India.

Number of Lectures: 45

UNIT 1: Introduction to Indian Financial System

[15 Lectures]

1. Structure of Indian Financial System
2. Financial system and economic development – Indicators of financial development, key financial ratios: FR, FIR, NIR, and IR.
3. Financial sector reforms: Narsimham committee report 1991 and 1998.

UNIT 2: Financial Institutions

[15 Lectures]

1. Commercial Banks & co-operatives Banks
2. NBFCS- meaning, types, growth and regulation
3. Credit Rating Agencies – Domestic and International

UNIT 3: Financial Regulators

[15 Lectures]

1. RBI
2. SEBI, IRDA, PFRDA
3. IBBI

First CIA: Short answers and Concepts

Second CIA: Group Presentations

Basic Reference Book:

Indian Financial System- Bharti Pathak (3rd edition) Pearson Publications

Additional References:

1. Bhole L.M.: Financial Institutions and Markets, Tata McGraw Hill Publications
2. Khan M.Y.: Financial Services, Tata McGraw Hill publications

St. Xavier's College – Autonomous Mumbai

Syllabus For 6th Semester Core and Applied Courses in **Economics (June 2019 onwards)**

Contents:

Theory Syllabus for Courses:

- A.Eco.6.01 Macroeconomics: Theory and Practice
- A.Eco.6.02 Principles of Macroeconomics
- A.Eco.6.03 Economic Development: Policy and Applications- I
- A.Eco.6.04 Economic Development: Policy and Applications - II
- A.Eco.6.05 Introduction to Political Economy
- A.Eco.6.06 International Finance: Theory and Policy
- A.Eco.6.07 Mathematical Techniques for Economics
- A.Eco.6.08 Advanced Econometrics – II
- A.Eco.6.09 Corporate Financial Analysis
- A.Eco.6.10 Indian Financial Markets

TYBA

Course: A.ECO.6.01

Title: Macroeconomics: Theory and Practice

Learning Objective: To introduce students to the fundamentals of Public Finance and Labor Economics.

Number of Lectures: 60

UNIT 1: Monetary Policy Objectives and Targets [15 Lectures]

1. Goals of Monetary Policy and Intermediate Targets
2. Choosing Intermediate Targets in Case of Demand Shocks
3. Choosing Intermediate Targets in Case of Supply Shocks
4. Targeting the Nominal GDP- Rules Versus Discretion in Monetary Policy

UNIT 2: Inflation – Unemployment Trade off [15 Lectures]

1. Inflation and Unemployment Relation in the short run – Phillips Curve Analysis
2. Inflation and Unemployment Relation in the long run – Robert Lucas Rational Expectation Hypothesis, Adaptive Expectation Hypothesis
3. Monetarist and New Classical Theories of Business Cycle- Friedman and Lucas Approach
4. Samuelson's Super multiplier Theory of Business Cycle

UNIT 3: Labor Economics [15 Lectures]

1. Profit maximization and Labour Demand- Utility and Labour Supply
2. Labor Unions and Collective Bargaining
3. Minimum Wage law and Public Policy- Cyclical Unemployment and Output Gap
4. Static Phillips Curve

UNIT 4: Public Finance [15 Lectures]

1. Allocation, Distribution and Public Choice
2. Taxation – Benefits and Ability to Pay Approach, taxable capacity and Equity Approach
3. Theories of Public Expenditure – Wagner's Law, Wiseman-Peacock Hypothesis
4. Economics of Public Debt – Growth and Structure, Public Debt Sustainability

First CIA: Short answers and Concepts

Second CIA: Individual / Group Assignments

Basic Reference Book:

Mankiw, N. Gregory. Macroeconomics, 6e. New York: Worth Publishers, 2003.

Activity: Visit to Industries to acquaint the students with production techniques, practices and working conditions for labour.

Additional References:

1. D'souza, E. (2008), Macroeconomics, Pearson Education, New Delhi.
2. Musgrave R.A. and P.B. Musgrave: Public Finance in Theory and Practice, 5e. New York: McGraw Hill International Edition, 1989.
3. Dwivedi, D.N. Principles of Economics, Vikas Publishing House, New Delhi, 2008
4. Stiglitz, J. Economics of Public Sector, 3e. New York: W.W. Norton & Co, 2000.

TYBA

Course: A.ECO.6.02

TITLE: PRINCIPLES OF MACROECONOMICS

Learning Objective: To introduce students to the fundamentals of Public Finance and Labor Economics.

Number of Lectures: 60

UNIT 1: Post-Keynesian Consumption Theories [15 Lectures]

1. Irving Fisher and Inter-temporal Choice.
2. Franco Modigliani's Life Cycle Hypothesis.
3. Milton Friedman's Permanent Income Hypothesis.
4. Robert Hall and Random-Walk Hypothesis

UNIT 2: Inflation – Unemployment Trade off [15 Lectures]

1. Inflation and Unemployment Relation in the short run – Phillips Curve Analysis
2. Inflation and Unemployment Relation in the long run – Robert Lucas Rational Expectation Hypothesis, Adaptive Expectation Hypothesis
3. Monetarist and New Classical Theories of Business Cycle- Friedman and Lucas Approach
4. Samuelson's Super multiplier Theory of Business Cycle

UNIT 3: Labor Economics [15 Lectures]

1. Identifying Unemployment, measurement of unemployment with reference to India
2. Labor Unions and Collective Bargaining
3. Minimum Wage law and Public Policy
4. Theory of Efficiency Wages

UNIT 4: Public Finance [15 Lectures]

1. Allocation, Distribution and Public Choice
2. Taxation – Benefits and Ability to Pay Approach, taxable capacity and Equity Approach
3. Theories of Public Expenditure – Wagner's Law, Wiseman-Peacock Hypothesis
4. Economics of Public Debt – Growth and Structure, Public Debt Sustainability

First CIA: Short answers and Concepts

Second CIA: Individual / Group Assignments

Activity: Visit to Industries to acquaint the students with production techniques, practices and working conditions for labour.

Basic Reference Book:

Mankiw, N. Gregory. Macroeconomics, 6e. New York: Worth Publishers, 2003.

Additional References:

1. D'souza, E. (2008), Macroeconomics, Pearson Education, New Delhi.
2. Musgrave R.A. and P.B. Musgrave: Public Finance in Theory and Practice, 5e. New York: McGraw Hill International Edition, 1989.
3. Dwivedi, D.N. Principles of Economics, Vikas Publishing House, New Delhi, 2008
4. Stiglitz, J. Economics of Public Sector, 3e. New York: W.W. Norton & Co, 2000

TYBA

Course: A. ECO.6.03

TITLE: ECONOMIC DEVELOPMENT: POLICY AND APPLICATIONS – I

Learning Objectives:

1. To introduce students to theories and issues related to human resources and poverty.
2. To study the urban, rural and international aspects of development processes.
3. To understand critical areas of development economics, with reference to India.

Number of Lectures: 60

UNIT I: Demography and Development

[15 Lectures]

1. Demographic indicators of development
2. Demographic Transition and Development Patterns.
3. Human Capital Formation and Manpower Planning - contribution of education and health.
4. Women and children in the workforce.

UNIT II: Urbanization and Development

[15 Lectures]

1. Urbanization and Development
2. Migration and Development issues; Harris-Todaro model of rural-urban migration
3. Urban informal sector and the labour market.
4. Urban Governance and Development.

UNIT III: International Measures for Development

[15 Lectures]

1. Foreign Trade and Development:
2. Trade strategies for Development: inward looking and outward looking.
3. Randomized Controlled Trials and Foreign Aid
4. Foreign Assistance and Financing and Development.

UNIT IV: Critical issues and the Development Paradigm

[15 Lectures]

1. Infrastructure Deficits: Power, Connectivity, Finance, Sanitation and Shelter.
2. Neglect of Agriculture and Exploitation of Natural Resources.
3. Ecological Degradation
4. Human Displacement and Dispossession.

First CIA: Short Answers and Concepts

Second CIA: Applications and Case Studies.

Basic Reference Book:

Todaro, Michael P. and S. C. Smith. *Economic Development*, 8ed. Delhi: Pearson Education, 2011.

Additional References:

1. Debraj Ray, *Economic Development*, Oxford Publication, New Delhi,
2. Meier, Gerald M. and James E. Rauch. *Leading Issues in Economic Development*, 8th ed., Oxford University Press, New Delhi:
3. Thirwal A.P. 'Growth and Development – with special reference to developing economies, Palgrave-Macmillan Publication, New Delhi.

TYBA

Course: A. ECO.6.04

TITLE: ECONOMIC DEVELOPMENT: POLICY AND APPLICATIONS – II

Learning Objectives:

1. To introduce students to theories/issues related to population, poverty & human resources.
2. To study the urban, rural as well as international aspects of development processes.
3. To understand critical areas of development economics, with reference to India.

Number of Lectures: 60

UNIT I: Demography and Development

[15 Lectures]

1. Demographic indicators of development
2. Demographic Transition and Development Patterns.
3. Human Capital Formation and Manpower Planning - contribution of education and health.
4. Gender issues in the workforce.

UNIT II: Urbanization and Development

[15 Lectures]

1. Urbanization and Development
2. Migration and Development issues; Harris-Todaro model of rural-urban migration
3. Urban informal sector and the labour market.
4. Sustainable Cities.

UNIT III: International Measures for Development

[15 Lectures]

1. Foreign Trade and Development:
2. Trade strategies for Development: inward looking and outward looking.
3. Randomized Controlled Trials and Foreign Aid.
4. Capital injection and development processes in BRICS

UNIT IV: Critical issues and the Development Paradigm

[15 Lectures]

1. Infrastructure Deficits: Power, Connectivity, Finance, Sanitation and Shelter.
2. Neglect of Agriculture and Exploitation of Natural Resources.
3. Ecological Degradation
4. Human Displacement and Dispossession.

First CIA: Short Answers and Concepts

Second CIA: Applications and Case Studies.

Basic Reference Book:

Todaro, Michael P. and S. C. Smith. *Economic Development*, 8ed. Delhi: Pearson Education, 2011.

Additional References:

1. Debraj Ray, *Economic Development*, Oxford Publication, New Delhi,
2. Meier, Gerald M. and James E. Rauch. *Leading Issues in Economic Development*, 8th ed., Oxford University Press, New Delhi:
3. Thirwal A.P. 'Growth and Development – with special reference to developing economies, Palgrave-Macmillan Publication, New Delhi.

TYBA

Course: A. ECO.6.05

TITLE: INTRODUCTION TO POLITICAL ECONOMY

Learning Objectives:

1. To acquaint students with the history of political economy and thereby appreciate how modern economic policy and macro decision-making have evolved into their present form.
2. To familiarize students with the relationship that exists between the market on one side and individuals, society and the state on the other, w.r.t. issues concerning gender, environment and human welfare.
3. To engage students with the impact of evolving economic policies on the organization of production, labour market institutions and corporate structure.

Number of Lectures: 45

UNIT I: Changing Dynamics of Capitalist Production [15 Lectures]

1. Perspective on political economy with a historical overview.
2. Fordist and Post-Fordist Production Modes: Changes in the organization of production, markets and labour process; Changes in the nature of job security and labour rights.

UNIT II: State in the Globalization Era [15 Lectures]

1. Globalization and the limits of the Welfare State.
2. Development and State Autonomy.

UNIT III: Changing Role of Finance [15 Lectures]

1. Financial Liberalization and Financial Fragility.
2. Globalization and uneven development – Impact on People and Environment.

First CIA: Short Answer and Concepts Test.

Second CIA: Team work assignment.

Basic Reference Book:

Hanushek, Eric Allen, 'Modern Political Economy', Cambridge University Press (1995)

Additional References:

1. Chakrabarti, Shantanu and Kingshuk Chatterjee (eds.), „Globalization and Development – Current Trends“ Calcutta University, Kolkata, 2012.
2. Dani Rodrik. “Goodbye Washington Consensus, Hello Washington Confusion? A Review of the World Bank's Economic Growth in the 1990s: Learning from a Decade of Reform”. *Journal of Economic Literature*. Vol. XLIV (December 2006), pp. 973-987.
3. Harvey, David, „A Brief History of Neoliberalism“, Oxford University Press, 2005.
4. Ross, Michael, „The Bottom Billion“. Sage Publication, 1999.
5. Sen, Amartya, „Over 100 million women are missing“, *New York Times Review of*

Books,1990.

6. Shleifer, Andrei and Robert W. Vishny, „The Politics of Market Socialism“, The Journal of Economic Perspectives, Vol. 8, No. 2 (Spring 1994), 165-176.

TYBA

Course: A. ECO.6.06

TITLE: INTERNATIONAL FINANCE: THEORY AND POLICY

Learning Objective:

To familiarize the students with international monetary systems

Number of Lectures: 45

UNIT I: Balance Of Payments

[15 Lectures]

1. Accounting principles in Balance of payments (Double entry system)
2. Balance of payments disequilibrium – causes, types, correction
3. Marshall – Lerner Condition
4. Exchange Rate Theories: Balance of Payment Approach and Purchasing Power Parity Theory

UNIT II: International Monetary Systems

[15 Lectures]

1. Overview of Gold Standard System.
2. Collapse of Bretton Woods System.
3. Fixed versus Flexible Exchange Rate System.
4. International liquidity and role of IMF.

UNIT III: Contemporary Sources of International Finance

[15 Lectures]

1. Instruments of FOREX.
2. International Bonds.
3. International Banking.
4. International Equity Market.

First CIA :Short Answers and Concepts

Second CIA :Report on assigned international economic issues

Basic Reference Book :

Dominick Salvatore, *International Economics* (7th Edition), John Wiley, 2001

Additional Reference Books :

1. Cherunilam Francis, *International Economics* (4th Edition), Tata McGraw-Hill Companies, 2006
2. Keenan P , *International Economics*
3. Krugman Pearson Paul R. &Obstfeld Maurice, *Economics - International Theory & Policy* (6th Edition), Pearson
4. Pilban Keith
5. Sodersten Bo & Reed Geoffrey, *International Economics*, McMillan Press Ltd., 2003

TYBA

Course: A.ECO.6.07

TITLE: MATHEMATICAL TECHNIQUES FOR ECONOMICS

Learning Objective: The central objective of the paper is to equip students with mathematical skills essential for economic analysis.

Number of Lectures: 60

Unit 1: Linear Algebra

[10 Lectures]

Homogeneous and Non-Homogeneous Linear Equation Systems; Types of Solutions; Matrix Solution to Linear Equation Systems; Arbitrage Portfolios and State Prices; Eigen values and Eigenvectors; Steady State and Long Term Predictions; Structure of Input- Output Systems.

Unit 2: Economic Applications of Derivatives and Partial Derivatives [20 Lectures]

Limits and Continuity; Implicit Differentiation-Marginal Rate of Technical Substitution; Rate of Growth; Profit Maximising Price with/without Price Discrimination; Duopoly Model; Optimisation of Discounted Receipts

Unit 3: Economic Applications of Partial Derivatives

[20 Lectures]

Geometrical Interpretation of Partial Derivatives; Modelling and Optimising Utility and Production Functions; Testing the Law of DMU; Own and Cross Elasticities of Demand on Logarithmic Scales; Indirect Utility Functions; Homogeneous Functions; Euler's Theorem: Adding-Up Problem; Total Derivatives; Differentials

Unit 4: Economic Applications of Integrals

[10 Lectures]

Optimal Timing; Present Value of Continuous Annuity; Consumer's and Producer's Surplus

CIA-1& CIA-2: Written Test

Basic Reference:

Edward Dowling, Schaum's Outline of Introduction to Mathematical Economics, McGraw Hill Education, Third Edition(2011)

Additional Reference:

Martin Anthony and Norman Biggs, Mathematics for Economics and Finance, Cambridge University Press(1996)

Alpha Chiang, Fundamental Methods of Mathematical Economics, McGraw- Hill(1984)

TYBA

Course: A.ECO.6.08

TITLE: ADVANCED ECONOMETRICS-II

Learning Objective: The central objective of the paper is to familiarize students with advanced techniques in Time Series Econometrics.

Number of Lectures: 60

Unit 1: Time Series

[20 Lectures]

Components of Time Series; Stationary and Non- Stationary Time Series ; Random Walk Model; Autocorrelation Function; Partial Autocorrelation Function; Unit Root Test of Stationarity.

Unit 2: Time Series Forecasting

[20 Lectures]

Time Series Forecasting: Moving Averages; Exponential Smoothing; Fitting a Linear Trend; Fitting an Exponential Trend; Seasonal Index
AR; MA; ARMA and ARIMA Process; Box- Jenkins Methodology; Modelling Volatility: ARCH and GARCH Models, Cointegration and Error Correction; Testing for Cointegration: The Engle Granger Methodology

Unit 3 : Dynamic Econometric Models

[20 Lectures]

Distributed Lag Model; Koyck Approach to Distributed Lag Models
Adaptive Expectations and Partial Adjustment Models

Suggested Readings:

Walter Enders, Applied Econometric Time Series, Wiley, Third Edition (2013)
Gujarati, Damodar and Sangeetha, Basic Econometrics, McGraw Hill, Fifth Edition (2011)
Christopher Dougherty, Introductory Econometrics, Oxford University Press, Fourth Edition, (2011)
Jan Kmenta, Elements of Econometrics, Macmillan Publishing, Second Edition (1986)
Ronald Wonnacott and Thomas Wonnacott, Econometrics, John Wiley, Second Edition (1979)
A. Koutsoyiannis, Theory of Econometrics, Palgrave Macmillan, Second Edition (2001)
Chris Brooks, Introductory Econometrics for Finance, Cambridge University Press, Second Edition (2008)
Jeffrey Wooldridge, Introductory Econometrics, Cengage Learning, Fourth Edition (2009)
G.S. Maddala, Introduction to Econometrics, Macmillan Publishing, Second Edition (1992)
Marno Verbeek, A Guide to Modern Econometrics, John Wiley, Second Edition (2004)
Joshua Angrist and J. Pischke, Mostly Harmless Econometrics: An Empiricist's Companion, Princeton University Press (2009)

TYBA

Course : A.ECO.6.09

TITLE: CORPORATE FINANCIAL ANALYSIS

Learning Objective:

To acquaint the students with the application techniques of corporate finance.

Number of Lectures: 45

UNIT I: Risk and Return: An Overview of Capital Market [15 Lectures]

1. Risk and return of Single Assets : Standard deviation and variance
2. Historical capital market returns
3. Expected returns and risk : Probabilities in Estimates

UNIT II: Portfolio Theory and CAPM [15 Lectures]

1. Portfolio Risk and Returns Analysis: Two asset case
2. Risk diversification: Systematic and Unsystematic Risk
3. Capital Asset Pricing Model (CAPM) and Opportunity of Capital

UNIT III: International Financial Management [15 Lectures]

1. Foreign Exchange Market
2. International Parity Relationship
3. Foreign Exchange Risk and Hedging
4. International Capital Investment Analysis

First CIA : Short Answers and Concepts

Second CIA : Report on a Company's Financial Documents

Basic Reference Book:

Pandey, I.M., *Corporate Finance*, Pearson Education, New Delhi, 2011

Additional Reference Books:

1. Brealy, Meyer, *Principles of Corporate Finance*, 8th edition, Tata-McGraw-Hill Publishing Co. Ltd., New Delhi.
2. Chandra, Prasanna, *Finance Sense*, Tata McGraw-Hill Publishing Co, Ltd., New Delhi
3. Chandra, Prasanna, (1993), *Fundamentals of Financial Management*, Tata McGraw-Hill Publishing Co. Ltd., New Delhi.
4. Damodaran, Aswath, (2007), *Corporate Finance Theory & Practice*, Wiley Series in Finance: New York
5. Ross Stephen, Randolph W. Westerfield, Bradford D. Jordan, (2008), *Fundamentals of Corporate Finance*, 8th edition, Tata McGraw Hill Publishing Co. Ltd., New Delhi.
6. Watson, Denzil & Antony Head, (2001), *Corporate Finance: Principles & Practices*.

TYBA

Course: A.ECO.6.10

Title: Indian Financial Markets

Learning Objective: To familiarize students with the working of financial markets and instruments.

Number of Lectures: 45

UNIT 1: Derivatives

[15 Lectures]

1. Meaning and Significance of Derivative Markets
2. Types of financial derivatives and their pricing: Forwards, Futures, Options and Swaps
3. Derivatives trading in India.

UNIT 2: Financial Instruments

[15 Lectures]

1. Mobilising Instruments – Money & Capital Market Instruments
2. Risk Mitigating Instruments- CDOs, Securitised Papers.
3. International Instruments – ADR, GDR, Euro Bonds

UNIT 3: Segments of Financial Markets

[15 Lectures]

1. Money Market
2. Bond market
3. Equity market
4. Foreign exchange market

First CIA: Short answers and Concepts

Second CIA: Group Presentations

Basic Reference Book:

Indian Financial System- Bharti Pathak (3rd edition) Pearson Publications

Additional References:

1. Bhole L.M.: Financial Institutions and Markets, Tata McGraw Hill Publications