



DEPARTMENT OF ECONOMICS

SYLLABUS

(NEP 2024-25 & 2025-26)

BACHELOR OF ARTS

SYBA Major 1 Sem III

Class: SYBA
Semester: III
Paper Name: Microeconomic Theory
Paper Code: SIUECMJ211
Credits: 4
Learning Objectives: The course aims to introduce the students to analytics of the effect of change in price on demand and the functioning of different market structures. By the end of the course, learners will be able to understand how markets allocate resources and how structure of market affects choices.
Course Outcomes: <ul style="list-style-type: none">• CO1- To analyse the impact of change in price on demand.• CO2- To apply cost and revenue concepts to perfectly competitive markets.• CO3- To apply cost and revenue concepts to monopoly market.• CO4- To apply cost and revenue concepts to monopolistic competition.
Module 1 - Consumer Theory Effect of change in price on demand - Income Effect - Substitution Effect - Slutsky v/s Hicks Approach - Endowment Effect - Market demand and elasticity.
Module 2 - Price and Output under Perfect Competition Perfect Competition-Conditions of equilibrium-short run equilibrium of the firm: marginal approach - Shut Down Point - Long run equilibrium of the firm.
Module 3 - Monopoly Monopoly- Short run equilibrium of the firm: marginal approach - long run equilibrium of the firm - Price Discrimination.
Module 4 - Price and Output under Monopolistic Competition Monopolistic Competition - Short run equilibrium of the firm, long run equilibrium of the firm, Selling cost, Deadweight loss.

References:

1. Austan Goolsbee, S. L. (2017). Microeconomics. New York: Worth Publishers.
2. Pindyck, R.S., Rubinfeld L.S. (2018). Microeconomics. London: Pearson
3. Mukherjee, Sampat (2016). Analytical Microeconomics: From Alfred Marshall to John Nash. London: New central Book Agency (P) Ltd.
4. Mankiw, Gregory (2015). Principles of Microeconomics. New Delhi: Cengage Learning.
5. Dominick (2003). Microeconomics: Theory and Applications. Oxford University Press. New Delhi

SYBA Major 2 Sem III

Class: SYBA
Semester: III
Paper Name: Elementary Statistics for Economics
Paper Code: SIUECMJ212
Credits: 4
Learning Objectives: The knowledge of quantitative techniques in statistics is essential to understand and quantify economic problems. The course is designed to introduce elementary concepts of statistics and tools of data analysis.
Course Outcomes: <ul style="list-style-type: none">• CO1- To appreciate fundamental concepts of statistics.• CO2- To apply tools of statistics• CO3: To analyze attributes and its methods.
Module 1 - Introduction Importance of statistics for economics, Measures of Central Tendency, Mean, Median and Mode.
Module 2 – Measures of Dispersion Quartile, Mean Deviation, Variance and Standard deviation.

Module 3 – Correlation

Scatter Diagram, Correlation, Types of Correlation, Pearson's Coefficient of correlation, Spearman's rank correlation.

Module 4 – Analysis of attributes

Attributes, classes and class frequencies, consistency of data, Independence of attributes, association of attributes.

References:

1. S. C. Gupta and V.K Kapoor, Fundamental of Mathematical Statistics, Sultan Chnad and Sons, 12th Edition, 2022.
2. A.M. Goon, M.K. Gupta and B Dasgupta, Fundamentals of Statistics, Vol. 1, World Press Pvt. Ltd. , 2016.

SYBA Minor Sem III**Class: SYBA****Semester: III****Paper Name: Intermediate Economics I****Paper Code: SIUECMN211****Credits: 4****Learning Objectives:**

The course aims to introduce the students to analytics of the effect of change in price on demand and the functioning of different market structures. Students will also be introduced to the analytics of macroeconomic policies. By the end of the course, learners will be able to understand how markets allocate resources and how macroeconomic policies function.

Course Outcomes:

- CO1 - To apply cost and revenue concepts to perfectly competitive markets.
- CO2 - To apply cost and revenue concepts to monopoly market.
- CO3 - To examine instruments of fiscal policy and their application.
- CO4 - To examine instruments of monetary policy and their application.

Module 1 - Structure & Pricing under Perfect Competition

Perfect Competition- Features - Conditions of equilibrium-short run equilibrium of the firm: marginal approach, Shut Down Point, Long run equilibrium of the firm.

Module 2 - Price and Output under Monopoly

Monopoly- Features -Short run equilibrium of the firm: marginal approach, long run equilibrium of the firm. Price Discrimination - Types.

Module 3 - Fiscal Policy

Meaning of fiscal policy - components of fiscal policy- public revenue and its types - public expenditure and its types - contra cyclical and discretionary fiscal policy - limitations of fiscal policy - sound and functional finance - Fiscal policy measures illustrated through IS-LM model.

Module 4 - Monetary Policy

Meaning of monetary policy - instruments of monetary policy - monetary policy transmission - limitations of monetary policy - monetary policy measures illustrated through IS-LM model

References:

1. Austan Goolsbee, S. L. (2017). Microeconomics. New York: Worth Publishers.
2. Mukherjee, Sampat (2016). Analytical Microeconomics: From Alfred Marshall to John Nash. London: New central Book Agency (P) Ltd.
3. Mankiw, Gregory (2015). Principles of Microeconomics. New Delhi: Cengage Learning.
4. Blanchard, O. (2003). Microeconomics. Pearson. London.
5. Dwivedi, D.N. (2015). Macroeconomics: Theory & Policy. McGraw Hill Education India Private Limited, New Delhi.

SYBA VSC Sem III

Class: SYBA
Semester: III
Paper Name: Indian Economy for Competitive Exams
Paper Code: SIUECVS211
Credits: 2
Learning Objectives: The course aims to provide a general knowledge with respect to fundamentals of Indian Economy from competitive examination perspective
Course Outcomes: <ul style="list-style-type: none">• CO1- To examine the scope of Indian Economy as a subject for competitive exams.• CO2- To explain various features of Indian Economy.
Module 1 Scope- subject matter – various examinations and their pattern, references and focussed topics
Module 2 Economic planning in India, growth and development of Indian economy in the post-independence period, government schemes and programmes in India, money and banking and international agencies and trade
References: <ol style="list-style-type: none">1. Austan Goolsbee, S. L. (2017). Microeconomics. New York: Worth Publishers.2. Mukherjee, Sampat (2016). Analytical Microeconomics: From Alfred Marshall to John Nash. London: New central Book Agency (P) Ltd.3. Mankiw, Gregory (2015). Principles of Microeconomics. New Delhi: Cengage Learning.4. Blanchard, O. (2003). Microeconomics. Pearson. London.5. Dwivedi, D.N. (2015). Macroeconomics: Theory & Policy. McGraw Hill Education India Private Limited, New Delhi.

SYBA Major 1 Sem IV

Class: SYBA
Semester: IV
Paper Name: Macroeconomic Theory
Paper Code: SIUECMJ211
Credits: 4
Learning Objectives: The course aims to introduce the students to analytics of a financial crisis, the role played by expectations in an economy, macroeconomic issues related to inflation and unemployment and the basics concepts in open macroeconomics. By the end of the course, learners will be able to understand how a financial crisis occurs and the role played by expectations in the same. The course will also enable learners to understand macroeconomic problems of inflation, unemployment and basic concepts in open macroeconomics.
Course Outcomes: <ul style="list-style-type: none">• CO1- To analyse financial crisis using IS-LM model.• CO2- To discuss the role of expectations in an economy.• CO3- To analyse the relation between inflation and unemployment.• CO4- To examine basic concepts in open macroeconomics.
Module 1 - Financial crisis and the IS-LM Model Mathematical version of IS-LM Model - Policy Mix (Case Studies) - nominal (policy) and real (borrowing) interest rates - understanding global financial crisis using IS-LM model
Module 2 - Role of Expectations Role of expectations in the economy - Influence of expectations on bond and stock prices - Influence of expectations on consumption and investment - Influence of expectations on policy
Module 3 - Phillips Curve and Natural Rate of Unemployment Trade-off between inflation and unemployment - Phillips curve and its mutations- Phillips curve and natural rate of unemployment - Case studies
Module 4 - Foreign Exchange rate & BoP Foreign exchange market - its structure & types - exchange rate and its determination (market theory) - types of exchange rate systems - BoP - current & capital accounts

References:

1. Blanchard, O. (2003). Microeconomics. Pearson, London.
2. Dwivedi, D.N. (2015). Macroeconomics: Theory & Policy. McGraw Hill Education India Private Limited, New Delhi.
3. Frozen, Richard T.(2013). Macroeconomics: Theories & Policies.Pearson, Boston.
4. Bernanke, B.S., D, Croushore, A.B Abel (2011) . Macroeconomics. Pearson, New Delhi.
5. Mankiw, Gregory (2015). Principles of Macroeconomics. Cengage Learning, New Delhi.

SYBA Major 2 Sem IV

Class: SYBA
Semester: IV
Paper Name: Elementary Mathematics for Economics
Paper Code: SIUECMJ222
Credits: 4
Learning Objectives: The knowledge of quantitative techniques in statistics is essential to understand and quantify economic problems. The course is designed to introduce elementary concepts of statistics and tools of data analysis.
Course Outcomes: <ul style="list-style-type: none">• CO1- To appreciate fundamental concepts of statistics.• CO2- To apply tools of statistics• CO3: To analyze attributes and its methods.
Module 1 - Functions Functions, graphing of functions(constant, linear, quadratic, cubic), their applications in economics-, derivatives and rules of differentiation- constant function, linear function, power function, sum and difference, product and quotient.
Module 2 – Calculus and their application in economics Second order derivatives and economic applications, Marginal Utility, Consumer Theory, Marginal cost, marginal revenue, profit maximization.
Module 3 – Linear Programming Techniques Formulation of objective function and constraints, graphical solution.

Module 4 –Basic of Matrix Algebra

Matrix Algebra- definition, types of matrices, Matrix Algebra Operations , Determinants, Cramer’s rule and matrix inversion method.

References:

1. Dowling Edward T. (1993). *Theory and Problems of Mathematical Methods for Business and Economics*, Tata McGraw-Hill, New Delhi.
2. Dowling Edward T. (2004). *Introduction to Mathematical Economics*, Schaum Outline Series in Economics, Tata McGraw-Hill, New Delhi.
3. Gupta S.P. (2014). *Statistical Methods*, S. Chand, New Delhi,
4. Lerner Joel J and P. Zima (1986) *Theory and Problems of Business Mathematics*, McGraw-Hill, New York.
5. Sancheti D.C. and V. K. Kapoor (2014), *Statistics-Theory, Methods and Applications*.

SYBA Minor Sem IV**Class: SYBA****Semester: IV****Paper Name: Intermediate Economics II****Paper Code: SIUECMN221****Credits: 4****Learning Objectives:**

The course aims to introduce the students to analytics of the effect of change in price on demand and the functioning of different market structures. Students will also be introduced to macroeconomic issues and basic concepts of open macroeconomics. By the end of the course, learners will be able to understand how markets allocate resources and how macroeconomic issues policies function.

Course Outcomes:

- CO1 - To apply cost and revenue concepts to monopolistically competitive markets.
- CO2 - To analyse the functioning of oligopoly market.
- CO3 - To examine inflation and its macroeconomic impact.
- CO4 - To examine basic concepts in open macroeconomics.

Module 1 - Structure & Pricing under Monopolistic Competition

Monopolistic Competition- Features - Conditions of equilibrium-short run equilibrium of the firm: marginal approach - Selling cost- Long run equilibrium of the firm.

Module 2 - Price and Output under Oligopoly

Strategic decision making - game theory - prisoner's dilemma- collusive and non-collusive models of oligopoly - kinked demand curve model - cartels - price leadership.

Module 3 - Inflation

Inflation - meaning and types - effects of inflation - measures adopted to control inflation - trade off between inflation and unemployment - Phillips curve.

Module 4 - Foreign Exchange rate & BoP

Foreign exchange market - its structure & types - exchange rate and its determination (market theory) - types of exchange rate systems - BoP - current & capital accounts

References:

1. Austan Goolsbee, S. L. (2017). Microeconomics. New York: Worth Publishers.
2. Mukherjee, Sampat (2016). Analytical Microeconomics: From Alfred Marshall to John Nash. London: New central Book Agency (P) Ltd.
3. Mankiw, Gregory (2015). Principles of Microeconomics. New Delhi: Cengage Learning.
4. Blanchard, O. (2003). Microeconomics. Pearson. London.
5. Dwivedi, D.N. (2015). Macroeconomics: Theory & Policy. McGraw Hill Education India Private Limited, New Delhi.

SYBA SEC SEM IV

Class: SYBA
Semester: IV
Paper Name: Data Interpretation and Logical Reasoning
Paper Code: SIUECSE221
Credits: 2
Learning Objectives: The course aims to provide a general knowledge with respect to fundamentals of Indian Economy from competitive examination perspective
Course Outcomes: <ul style="list-style-type: none">• CO1- To prepare students for various competitive exams.• CO2- To evaluate reasoning skills in problem solving.
Module 1 Scope- subject matter – various examinations and their pattern, references and focussed topics
Module 2 Economic planning in India, the horizon of Indian economy, government schemes and programmes in India, money and banking and international agencies and trade
References: <ol style="list-style-type: none">1. Verma, Rajesh (2015). Fasttrack Objective Arithmetic. Agra: Arihant Publications (India) Limited.2. Aggarwal R.S. (2024). A Modern Approach to Verbal & Non-Verbal Reasoning. New Delhi: S.Chand.

SYBA Major Field Project SEM IV

Class: SYBA
Semester: IV
Paper Name: Field Project
Paper Code: SIUECFP221
Credits: 2
Learning Objectives: The objective of this course is to inculcate research aptitude among learners and to apply theories and tools taught in the class to real-life phenomena.
Topics Consumption Behavior Analysis. Preference for organic and inorganic products and challenges faced. Consumption basket analysis of households – Monthly income & Expenditure pattern Environment Ethics & Perception, Sustainable practices awareness & Impact of policy on slum, students, women.