BA (Prog.) with Economics as Major

INTRODUCTORY MICRO ECONOMICS

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

| Course title & Code | Credits | Duration (per week) | | | Eligibility | Prerequisite | |
|---|---------|---------------------|----------|------------------------|-------------|-----------------|--|
| | | Lecture | Tutorial | Practical/ Practice | Criteria | i i ci cquisite | |
| Introductory Microeconomics ECON001 | 4 | 3 | 1 | 0 | Class 12th | NIL | |

Learning Objectives

The Learning Objectives of this course are as follows:

- To expose students to the basic principles of microeconomic theory
- To emphasis on the fundamental economic trade-offs and allocation problems due to scarcity of resources
- To use graphical methods to illustrate how microeconomic concepts can be applied to analyze real-life situations

Learning outcomes

The Learning Outcomes of this course are as follows:

- By studying the course, the students will understand economic trade-offsand opportunities.
- By studying the course, the students will understand the fundamentals of market mechanisms and government interventions.

UNIT - I: Introduction to economic trade-offs .(12 Hours)

Resources and opportunities, Gains from trade, Individual and society

UNIT -II: How marketworks

Supply and demand, Price and resource allocation, Elasticity, Market, trade andwelfare

(16 Hours)

(16 Hours)

UNIT-III: Role of government

Taxation, Public good, Inequality and poverty

UNIT - IV: Individual decision and interactions (16 Hours)

Decision versus strategic interaction, How to think about strategic interactions, Real life examples

Essential/recommended

readings:

- Mankiw, N. G. (2018). Principles of Microeconomics 8th ed.
- Frank, R.H., & Cartwright, E. (2010). *Microeconomics and behavior*. NewYork: McGraw-Hill.
- Dixit, A. K., & Skeath, S. (2015). *Games ofs/rategy:* Fourth international student edition. WW Norton & Company.
- Acemoglu, D., Laibson, D., & List, J. (2017). Microeconomics. Pearson.

Note: Examination scheme and mode shall be as prescribed by the ExaminationBranch, University of Delhi, from time to time.

Basic Mathematics for Economic Analysis

CREDIT DISTRIBUTION, ELIGIBILITY AND PREREQUISITES OFTHE COURSE

| Course title & Code | Credits | Duration (per week) | | | Eligibility | Duouoquisito | |
|---|---------|---------------------|----------|------------------------|-------------|--------------|--|
| | | Lecture | Tutorial | Practical/ Practice | Criteria | Prerequisite | |
| Basic Mathematics for Economic Analysis ECON021 | 4 | 3 | 1 | 0 | Class 12th | NIL | |

Learning Objectives

The Learning Objectives of this course are as follows:

• The objective of the course is train basic algebras that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomics, macroeconomics, 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. It contains understanding of basic functions, relations, real number systems, set operations, linear algebras and matrix operations used in economics.

LEARNING OUTCOMES

The Learning Outcomes of this course are as follows:

• The course equips the students with exposition of economic problems with formalpre- situations algebraically and offers solution techniques to find equilibrium analysis. These tools are necessary for anyone seeking employment as an analyst in the corporate and policy framing world.

UNIT-I:

Economic Models (20Hours)

Ingredients of mathematical models - variables, constants, parameters, equations, and identities; Real number system; Sets and functions; relations and their proper- ties; types of functions; functions of more than one variables; Limit, sequences and series: convergence, algebraic properties and applications; continuous . functions: characterisation, properties with respect to various operations and applications; differentiable function: characterisation, properties with respect to various operations and applications; second and higher order derivatives: properties and applications.

UNIT- II: Equilibrium Analysis in Economics **(20 Hours)** Meaning of equilibrium; partial market equilibrium - linear and nonlinear models; General market equilibrium

UNIT- III: Linear Models and Matrix Algebras and their Applications in Economics (20 Hours)

Matrix operations, Determinants and Cramer's Rule and their applications

Practical component (if any)-

NIL Essential/recommended

readings

- Chiang, A and Wainwright, K. (2005). Fundamental methods of mathematical economics. Boston, Mass.
 McGraw-Hill/Irwin.
- Sydsaeter, K., Hammond, P. (2002). Mathematicsfor economic analysis. Pearson Educational.
- Hoy, M., Livernois, J., McKenna, C., Rees, R., Stengos, T. (2001). Mathematics.for Economics, Prentice-Hall India.

Note: Examination scheme and m.ode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

B.A. Programmes with Economics as non-Major or Minor discipline

INTRODUCTORY MICRO ECONOMICS

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

| Course title & Code | Credits | Duration (per week) | | | Eligibility | Prerequisite | |
|--------------------------------|---------|---------------------|----------|------------------------|-------------|---------------|--|
| | | Lecture | Tutorial | Practical/ Practice | Criteria | i rerequisite | |
| Introductory Microeconomics | 4 | 3 | 1 | 0 | Class 12th | NIL | |

Learning Objectives

The Learning Objectives of this course are as follows:

- To expose students to the basic principles of microeconomic theory
- To emphasis on the fundamental economic trade-offs and allocation problems due to scarcity of resources
- To use graphical methods to illustrate how microeconomic concepts can be applied
- to analyze real-life situations

Learning outcomes

The Learning Outcomes of this course are as follows:

- By studying the course, the students will understand economic trade-offsand opportunities.
- By studying the course, the students will understand the fundamentals of market mechanisms and government interventions.

UNIT - I: Introduction to economic trade-offs .(12 Hours)

Resources and opportunities, Gains from trade, Individual and society

UNIT -II: How marketworks

(16 Hours)

Supply and demand, Price and resource allocation, Elasticity, Market, trade andwelfare

UNIT -III: Role of government (16 Hours)

Taxation, Public good, Inequality and poverty

UNIT - IV: Individual decision and interactions **(16 Hours)** Decision versus strategic interaction, How to think about strategic interactions, Real life examples

Essential/recommended readings:

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- Frank, R.H., & Cartwright, E. (2010). *Microeconomics and behavior*. NewYork: McGraw-Hill.
- Dixit, A. K., & Skeath, S. (2015). *Games ofs/rategy:* Fourth international student edition. WW Norton & Company.
- Acemoglu, D., Laibson, D., & List, J. (2017). Microeconomics. Pearson.

Note: Examination scheme and mode shall be as prescribed by the ExaminationBranch, University of Delhi, from time to time.

Course Code : E CON025

Course Abbreviation : PMIC1

Credits : 4

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

| Semeste r | Course title & Code | Credits | Credit distribution of thecourse | | | Eligibilit ycriteria | Pre- requisit |
|--------------|--|---------|-------------------------------------|----------|------------------------|-------------------------|--------------------------|
| | | | Lecture | Tutorial | Practical/ Practice | | eof th e course |
| Ι | Principles of Microeconomic s I ECON025 | 4 | 3 | 1 | 0 | Class XIIpass | NIL |

Learning Objectives

The Learning Objectives of this course are as follows:

□ This course discusses the basic principles in Microeconomics and their applications. It includes consumer's problem, demand estimation, production function, cost functions and market analysis. It illustrates how the concepts of microeconomics can be applied to analyze real-life economic situations.

Learning outcomes

The Learning Outcomes of this course are as follows:

□ The students learn some basic principles of microeconomics of consumer and producers, and interactions of supply and demand, characteristics of perfect competition, efficiency and welfare outcomes.

SYLLABUS OF GE-1

UNIT – I: Introduction (20 hours) Problem of scarcity and choice: scarcity, choice and opportunity cost; productionpossibility frontier; economic systems. Demand and supply: law of demand, determinants

of demand, shifts of demand versus movements along a demand curve, market demand, law of supply, determinants of supply, shifts of supply versus movements along a supply curve, market supply, market equilibrium. Applications of demand and supply: price rationing, price floors, consumer sur- plus, producer surplus. Elasticity: price elasticity of demand, calculating elasticity, determinants of price elasticity, other elasticities

UNIT – II: Consumer Theory (20 hours)

Budget constraint, concept of utility, diminishing marginal utility, Diamond-water paradox, income and substitution effects; consumer choice: indifference curves, derivation of demand curve from indifference curve and budget constraint

UNIT – III: Production and Costs (20 hours)

Production: behaviour of profit maximising firms, production process, production functions, law of variable proportions, choice of technology, isoquant and isocost lines, cost minimizing equilibrium condition

Costs: costs in the short run, costs in the long run, revenue and profit maximization, minimizing losses, short run industry supply curve, economies and dis- economies of scale, long run adjustments

UNIT – IV: Perfect Competition (20 hours)

Assumptions: theory of a firm under perfect competition, demand and revenue; equilibrium of the firm in the short run and long run; Long run industry supply curve: increasing, decreasing and constant cost industries.

Welfare: allocative efficiency under perfect competition.

Practical component (if any) - NIL

Essential/recommended readings

- Mankiw, N. G. (2018). Principles of Microeconomics 8th ed.
- Frank, R. H., & Cartwright, E. (2010). *Microeconomics and behavior*. NewYork: McGraw-Hill.
- Bernheim, B., Whinston, M. (2009). *Microeconomics*. Tata McGraw-Hill.