

TEACHING PLAN FOR BA (P) MAJOR- ECONOMICS

SEMESTER: 1st

COURSE: BASIC MATHEMATICS FOR ECONOMIC ANALYSIS

COURSE CODE: ECON021

CREDITS: 4

TEACHER: MS. ASHANI DHAR

<i>UNIT</i>	<i>TOPIC</i>	<i>READINGS</i>	<i>NO. OF LECTURES</i>
1. ECONOMIC MODELS	<p>Ingredients of mathematical models - variables, constants, parameters, equations, and identities; Real number system; Sets and functions; relations and their properties; types of functions; functions of more than one variable.</p> <p>Limit, sequences, and series: convergence, algebraic properties, and applications;</p> <p>Continuous functions: characterization, properties with respect to various</p>	<p>Chiang, A and Wainwright, K. (2005). Fundamental Methods of Mathematical Economics. Boston, Mass. McGraw-Hill/Irwin. Chapter 2</p> <p>Sydsaeter, K., Hammond, P. (2002). Mathematics for Economic Analysis. Pearson Educational. – Chapter 6 (4.6, 6.1, 6.4, 6.5, 6.6)</p> <p>Sydsaeter, K., Hammond, P. (2002). Mathematics for</p>	<p>20 Hours Approx.</p> <p>(weightage – 45% approx)</p> <p>–</p>

	<p>operations and applications;</p> <p>Differentiable functions: characterization, properties with respect to various operations and applications; second and higher order derivatives: properties and applications</p>	<p>Economic Analysis. Pearson Educational. Chapter 6(6.1, 6.2)</p> <p>Chiang, A and Wainwright, K. (2005). Fundamental Methods of Mathematical Economics. Boston, Mass. McGraw-Hill/Irwin. – Chapter 6, 7 (7.1, 7.2, 7.3, 7.5 (only market model).</p>	
<p>2. EQUILIBRIUM ANALYSIS IN ECONOMICS</p>	<p>Meaning of equilibrium; partial market equilibrium - linear and nonlinear models; General market equilibrium</p>	<p>Chiang, A and Wainwright, K. (2005). Fundamental Methods of Mathematical Economics. Boston, Mass. McGraw-Hill/Irwin Chapter 3 (3.1, 3.2, 3.3, 3.4 – deemphaise n-variable case and its solution)</p>	<p>7 Hours Approx.</p> <p>(weightage – 15% approx)</p>
<p>3. LINEAR MODELS AND MATRIX ALGEBRAS AND THEIR APPLICATION IN ECONOMICS</p>	<p>Matrix Operations, determinants, Cramer’s Rule and their applications</p>	<p>Chiang, A and Wainwright, K. (2005). Fundamental Methods of Mathematical Economics. Boston, Mass. McGraw-Hill/Irwin Chapter – 4(except 4.7),</p>	<p>18 Hours Approx.</p> <p>(weightage – 40% Approx)</p>

		Chapter 5 (5.1- 5.6 (only market models)), Chapter 3 (3.1, 3.2, 3.3, 3.4 – deemphasise nvariable case and its solution).	
--	--	--	--

READINGS:

1. Chiang, A and Wainwright, K. (2005). *Fundamental Methods of Mathematical Economics*. Boston, Mass. McGraw-Hill/Irwin
2. Sydsaeter, K., Hammond, P. (2002). *Mathematics for Economic Analysis*. Pearson Educational.
3. Hoy, M., Livernois, J., McKenna, C., Rees, R., Stengos, T. (2001) *Mathematics for Economics*, Prentice-Hall India.

ASSESSMENT:

1. Internal Assessment (IA): 30 Marks
 - Two class test (12 marks each), and
 - 6 marks for attendance
2. Continuous Assessment (CA): 40 Marks
 - 1 Class test for 10 marks
 - At least 2 quizzes/assignments, adding up to total 25 marks.
 - 5 marks for attendance
3. The end semester exam: 90 Marks

TEACHING PLAN FOR BA (P) MINOR- ECONOMICS

SEMESTER: 3RD

**COURSE: INTERMEDIATE MICROECONOMICS I : BEHAVIOURAL
FOUNDATIONS OF MARKET INTERACTIONS**

COURSE CODE: ECON007

CREDITS: 4

TEACHER: MS. ASHANI DHAR

<i>UNIT</i>	<i>TOPIC</i>	<i>READINGS</i>	<i>NO. OF LECTURES</i>
1. CONSUMER BEHAVIOUR	Preference and utility, Budget and choice, Income and substitution effect, Demand derivation, Labour supply, One-person welfare	Varian, Hal (2010): Intermediate Microeconomics: A Modern Approach, 8th edition, Affiliated East West Press (India) Chapter 2 to Chapter 6 Chapter 8 Chapter 9	20 Hours Approx. (weightage – 50%)
2. DECISION-MAKING UNDER UNCERTAINTY	Expected Utility, Risk aversion, insurance, risk spreading	Varian, Hal (2010): Intermediate Microeconomics: A Modern Approach, 8th edition, Affiliated East West Press (India) Chapter 12.	10 Hours Approx. (weightage – 20%)

3. PRODUCER BEHAVIOUR AND MARKETS	Technology, Profit Maximization, Cost Minimization, Supply, Short and Long Run	Serrano, Roberto and Feldman, Alan (2012), A short course in intermediate Microeconomics with Calculus, Cambridge University Press. Chapter 8 to Chapter 10	15 Hours Approx. (weightage – 30%)
--	--	--	---

READINGS:

1. Varian, Hal (2010): Intermediate Microeconomics: A Modern Approach, 8th edition, Affiliated East West Press (India).
2. Serrano, Roberto and Feldman, Alan (2012), A short course in intermediate Microeconomics with Calculus, Cambridge University Press

ASSESSMENT

1. Internal Assessment (IA): 30 Marks (class test(s) and or presentations + 6 marks for attendance)
2. Continuous Assessment (CA): 40 Marks (projects/ presentations for 35 marks + 5 marks for attendance)
3. The end semester exam: 90 Marks

TEACHING PLAN FOR BA/BC/B.SC (H) – GE

SEMESTER: 5TH

COURSE: PRINCIPLES OF MICROECONOMICS – II

COURSE CODE: ECON027

CREDITS: 4

TEACHER: MS. ASHANI DHAR

<i>UNIT</i>	<i>TOPIC</i>	<i>READINGS</i>	<i>NO. OF LECTURES</i>
1. MARKET STRUCTURE	Theory of a Monopoly Firm: Concept of imperfect competition; short run and long run price and output decisions of a monopoly firm; concept of a supply curve under monopoly; comparison of perfect competition and monopoly, social cost of monopoly, price discrimination; remedies for monopoly: Antitrust laws, natural monopoly Imperfect Competition: Monopolistic competition: Assumptions, SR	Mankiw, N. G. (2018). Principles of Microeconomics 8th ed. Chapter 15: Monopoly Chapter 16: Monopolistic Competition Chapter 17: Oligopoly	16 Hours Approx. (weightage – 30 marks approx)

	and LR price and output determinations under monopolistic competition, economic efficiency and resource allocation; oligopoly: assumptions, oligopoly models, game theory, contestable markets, role of government		
2. CONSUMER AND PRODUCER THEORY	<p>Consumer and Producer Theory in Action: Externalities, marginal cost pricing, internalising externalities, public goods; imperfect information: adverse selection, moral hazard, social choice, government inefficiency.</p> <p>Markets and Market Failure: Market adjustment to changes in demand, efficiency of perfect competition; sources of market failure: imperfect markets, public goods, externalities, imperfect</p>	<p>Mankiw, N. G. (2018). Principles of Microeconomics 8th ed. Chapter 10: Externalities</p> <p>Chapter 11: Public Goods and Common Resources</p> <p>Bernheim, B., Whinston, M. (2009). Microeconomics. Tata McGraw-Hill. Chapter 20: Externalities and Public Goods</p> <p>Chapter 21: Asymmetric Information</p>	<p>15 Hours Approx.</p> <p>(weightage – 30 marks)</p>

	information; evaluating the market mechanism		
3. INCOME DISTRIBUTION AND FACTOR PRICING	Input markets: demand for inputs; labour markets, land markets, profit maximisation condition in input markets, input demand curves, distribution of Income.	Mankiw, N. G. (2018). Principles of Microeconomics 8th ed. Chapter 18: The Markets for the Factors of Production	06 Hours Approx. (weightage – 15 marks approx)
4. INTERNATIONAL TRADE	Absolute advantage, comparative advantage, terms of trade, sources of comparative advantage, trade barriers, free trade/ protectionism.	Mankiw, N. G. (2018). Principles of Microeconomics 8th ed. Chapter 3: Interdependence and the Gains from Trade Chapter 9: Application International Trade	08 hours approx. (weightage – 15 marks approx.)

READINGS:

1. Mankiw, N. G. (2018). *Principles of Microeconomics* 8th ed.
2. Bernheim, B., Whinston, M. (2009). *Microeconomics*. Tata McGraw-Hill.

ASSESSMENT

5. Internal Assessment (IA): 30 Marks (class tests and presentation/ quiz + 6 marks for attendance)
6. Continuous Assessment (CA): 40 Marks (projects/ presentations for 35 marks + 5 marks for attendance)
7. The end semester exam: 90 Marks