Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course	Code No.: ECO-313 Title:	No. of Credits:04	Semester: III
	Objectives:	MATHEMATICAL ECONOMICS-I	
		cal analysis skills in economics	
2.	To give students deeper un	derstanding and working knowledge of mathematic	
3.	To increase the use of mat	hematical tools in economics analysis.	cs.
Unit		Course Content	DI
Ι	Consumer Theory		Periods
	1.1 Assumptions of modern consumer theory(1)		13
	1.2 Types of function- Separable and additive utility functions, indirect		
	utility function, homogenous and homothetic utility function linear		
	expenditure system.(4)		
	1.3 Utility maximization with different utility functions-substitution		
	method, Lagrange Multipliers Method; Envelope Theorem.		
	Applications (6)		•
	1.4 Slutsky equation. (2)		
-TT	1.5 Compensated demar	nd function.	
Ĩ	Production Theory		12
	2.1 Concepts : production function, product curve, Isoquants, elasticity		
	of substitution input demand function (2) 2.2 Production Functions - homogeneous non homogeneous		
	2.2 Production Functions - homogeneous, non-homogeneous and homothetic production function Cobb-Douglas production function-		
	properties, importance, criticisms (5)		
	2.3 CES production functions- production function- properties ,		
	Importance, criticisms (5)		
III	Theory of the Firm		12
	3.1 Relationship between production function cost function.		12
	3.2 Derivation of short-run and long-run cost functions(3)		
	3.3 Optimization Behavior-constrained output maximization		
	constrained cost minimization (5)		
	3.4 Analysis of joint profit maximization in multiproduct firm – constraints Revenue Maximization, profit maximization (4)		
IV	Market Equilibrium	Taximization, profit maximization (4)	
	3.1 Price & output determination in perfect competition(2)		12
	3.2 Monopoly: price discrimination, market discrimination, taxation		
	and monopoly output (4)		
	3.3 Monopsony, Monoplistic competition(3)		
V	3.4 Duopoly & Oligopoly- The quasi-competitive solution.		
	Collusion solution, Cournot solution, Stackelberg solution (4)		-17 M M M M
	3.5 Game Theory (3)		
	Welfare Economics	11	
	5.1 Nature, scope, limitati		
	5.3 Lindahal Eqilibrium (2 ning Outcomes	2) 5.4 Social Welfare functions (3)	
		and analysis skills in Frank	
2.5	Students show better under	cal analysis skills in Economics.	
2.0	students show better ullder	standing and working knowledge of Mathematics tools in economic analysis.	

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