Revised Course Outline of 'Intermediate Microeconomics I'

Coursetitle:Intermediate Microeconomics I									
Cours	rsecode: UEO 203 No. ofcredits:	4 L-T-P:46-14-0	Learni	nghou	rs:60				
Pre-requisitecoursecodeandtitle: UEO 103: Introductory Mathematical Methods for									
Economics, UEO 102: Basic Mathematics for Economics, UDS 103: Mathematics for Data									
Science									
Department:DepartmentofPolicy and ManagementStudies									
Cours	Coursecoordinator: Courseinstructor:								
Contactdetails:									
Coursetype:Core Courseofferedin:3 rd Semester									
Cours	Coursedescription: This is a second course on microeconomics which uses calculus that was taught in								
mathematical economics courses. Broadly, the course is divided into four parts. The first part teaches									
prefer	erences of a consumer, utility representations, and dem	nands. The second part focus	ses on pi	roduct	ion, p	orofit otition			
and monopoly. The fourth part focuses on general equilibrium and welfare economics									
Cours	seobjective:								
	1. To learn fundamentals of microeconomics usi	ng calculus.							
	2. To apply the core concepts in economic applie	cations.							
Cours	secontents								
S.No	Topics			L	Т	Р			
1	Consumer choice I			8	3				
	Preference relations, budget sets, utility representation	ions, cardinal and							
	ordinal utilities, indifference curves, marginal utility	y, and marginal rate of							
	substitution.								
	Examples of utility functions: Cobb-Douglas, perfe	ct substitutes, perfect							
	complements, CES, and quasi-linear.	, r							
2	Consumer choice II			8	3				
	Optimality, Marshallian demands, normal and infer	for goods, income offer curv	ves and						
	Engel curve, price otter curve and demand curve, la	aw of demand, substitutes an	a						
	comprements.								
	Substitution and income effects Slutsky equation 1	Hicksian demand revealed							
	preferences, weak axiom of revealed preference, int	tertemporal choice.							
	I I I I I I I I I I	I							
	Uncertainty, expected utility, risk averse, risk neutr	al, risk loving preferences.							
3	Production and Costs			6	2				
	Technology, marginal product, technical rate of sub	ostitution, short and long run	,						
	returns to scale, and elasticity of substitution.								
	Examples of technology functions: Cobb-Douglas,	perfect substitutes, perfect							
	complements, CES, and quasi-linear.								
	Cost minimization, cost functions, expansion path,	fixed and sunk costs, averag	e costs,						
	variable costs, cost-output elasticity, marginal costs	and duality with technology	/.						

4	Markets I: Perfect competition	6	2			
	Firm: Perfect competition, demand function of a firm, short-run supply function of a firm, shutdown decision, profit maximization, input demand, producer surplus.					
	Market: market demand, short-run market supply, short-run supply elasticity, short-run equilibrium, long-run supply, long-run supply elasticity and long-run equilibrium.					
5	Markets II: Monopoly		2			
	Monopolist's problem, linear demands and profits, marginal revenue and elasticity, rectangular hyperbola demands and profits, non-existence of supply functions, deadweight loss.					
	Price discrimination: first-degree price discrimination, second-degree price discrimination, and third-degree price discrimination.					
6	General equilibrium	8	2			
	Exchange, endowments, Edgeworth box, Pareto efficiency, relative prices, competitive equilibrium, first theorem of welfare economics, second theorem of welfare economics, applications.					
7	Welfare economics	4				
	Social welfare function, individual preferences, axioms of Pareto, independence of irrelevant alternative and dictatorship, Arrow's impossibility theorem.					
	Total	46	14			
Pedagogical approach:						
Classroom teaching and problem-solving sessions.						
Evalu	ationcriteria:					
Minor1:WrittenExamination- 30% [Syllabus: 1-4, Learning outcomes: 1-6] Minor 2: Written Examination - 30% [Syllabus: 5-6, Learning outcomes: 1-6] Major:WrittenExamination -40% [Syllabus: Complete course, Learning outcomes: 1-6]						
Learningoutcomes:						
At the end of the course, the students will be able to:						
 Understand the core concepts of microeconomics. [Modules 1-6] Analyze an economic problem graphically. [Modules 1-6] Solve an economic problem mathematically using calculus. [Modules 1-6] Build intuitions of the core results. [Modules 1-6] Figure out the cases where cookbook methods are not applicable. [Modules 1-6] Apply the concepts and results in economic applications. [Modules 1-6] 						
Core reading:						
 H. Varian, "Intermediate Microeconomics: A Modern Approach", 8th edition (2010) (HV) W. Nicholson, C. Snyder. "Microeconomic Theory: Basic Principles and Extensions", 10th edition (NS) 						

Additional readings:

3. T. Bergstorm, H. Varian. "Workouts in Intermediate Microeconomics" (2014)

Module-wise chapters from the core reading: H. Varian, "Intermediate Microeconomics", 8th edition (2010) (HV)

- 1. Module 1: HV, Chapters 2, 3 and 4
- 2. Module 2: HV, Chapters 5, 6, 7, 8, 10, and 12
- 3. Module 3: NS, Chapters 9 and 10
- 4. Module 4: NS, Chapters 11 and 12
- Module 4: NS, Chapters 11
 Module 5: NS, Chapter 14
 Module 6: HV, Chapter 31
 Module 7: HV, Chapter 33

Coursepreparedby:Sanyyam Khurana

Studentresponsibilities: Attendance, feedback, discipline: asperuniversity rules.

Coursereviewers:

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