LESSON PLAN, 2022-2023

ECONOMICS HONOURS (ECOA)

SEMESTER 1

Core Course 1: Introductory Microeconomics

TOPIC	NUMBER OF CLASSES
 IC: Exploring the subject matter of Economics Scope and methods of economics ; The economic problem and questions of economics Distinction between Microeconomics and Macroeconomics The basic competitive model Property rights and Profits Incentives and Information ; Rationing Economic system 	1 1 2 1 1 1
 KN: Supply and Demand: How Markets Work, Markets and Welfare Markets and competition Determinants of individual supply and demand, Market demand/supply curve Demand and supply schedule and curve Price and quantity determination by demand –supply Elasticity and its application Controls on prices Taxes and costs of taxation Consumer and producer surplus 	1 1 1 3 1 2 1 1 1
 Efficiency of the markets Production and Cost Production function: Total, Average and Marginal products Isoquants and economic region of production Elasticity of substitution, output elasticity Iso-cost curves Cost minimisation and output maximisation Expansion path Fixed coefficient production function Homogeneous production function, Economies of scale: IRS,CRS,DRS, 	$ \begin{array}{c} 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 2\\ 1\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 1\\ 2\\ 1\\ 2\\ 1\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 1\\ 2\\ 1\\ 1\\ 2\\ 1\\ 2\\ 1\\ 1\\ 2\\ 1\\ 1\\ 2\\ 1\\ 1\\ 2\\ 1\\ 1\\ 2\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$

Homothetic production function	
Cobb-Douglas production function	
CES production function	4
• Derivation of cost function from	2
production function	2
• Short run and long run cost curves	
Market Structure	
• Different types of market structures	2
Perfect Competition	
Monopoly	
Monopolistic Competition	
Oligopoly	
61 5	8
Tutorial/ other activities	
22	
DB:	10
Consumer Benaviour	10
The construction desiring hadnest constraint	
The consumption decision—budget constraint,	2
for all other goods and price changes, demand	3
Description of proferences, representing	
preference with indifference curves	
preference with mannerence curves	4
Properties of indifference curve	
rioperties of maniference curve	1
Consumers optimum choice	l
Consumers optimum choice—continuation	4
1	4
Income and substitution effects (Hicks and	
Slutsky)	2
	3
Ordinary and compensated demand curves	
	2
Inferior goods and Giffen goods	2
Price-consumption and Income-consumption	2
curves	5
	7
Tutorial/other activities	,
TOTAL CREDIT	90

Core Course 2: Mathematical Methods For Economics-I

TOPIC	NUMBER OF CLASSES
RR	
Definition of a set and	2
discussion of related concepts;	
Set types;	1
Operations on Sets	
Nested sets; Cartesian product	
Explicit and implicit functions;	2
Definitions; Concepts of range,	
'domain and 'mapping'	1
Types of functions and	
correspondences (polynomial,	2
exponential, logarithmic,	
power);	5
Fuelideen Space	5
Euclidean Space.	
rector spaces, algebraic and	2
products norms orthogonality	
sums	
linear transformations:	
properties, matrix	3
representations and elementary	
operations;	
Sums	
systems of linear equations:	2
properties of their solution sets	3
determinants: characterization,	
properties and applications.	
Number systems	4
Tutorial/Student's activity	
SB:	
Other Topics	
• Concepts of various types of series (arithmetic,	
geometric,	5
logarithmic, exponential, Taylor's and	-
McLaurin's)	
• Brief review of trigonometric functions and	3
associated curves	5
Single-variable optimization Total. Average and	
Marginal products	2
• Geometric properties of functions: convex	2
functions	
Distinction between concave and convey	
• Distinction between concave and convex	4
characterizations and applications	
• Local and global optima (maxima and minima);	5
geometric	
characterizations, characterizations using calculus	
and applications	
• Applications: Equilibrium under cardinal utility	4
theory;	

Maximization of Revenue and Profit	
Minimization of cost of	
production in short run	
Multi-variable optimization	
• Free and constrained optimization	2
• Examples of constrained optimization from	3
consumer and	
producers theories	5
• Static and dynamic optimization problems;	
applications	5
• Applications: Equilibrium under cardinal and	
ordinal utility	
theory; Maximization of Profit in different market	
form,	
Minimization of cost of production in long run.	8
Tutorial/ Other Activities	
IC:	
Brief review of Differential and Integral Calculus	
• Limits and Continuity	2
• Derivatives ; Differentiable Functions ; Second	3
and higher order	
derivatives; Properties;	
• Level curves, slope and curvature of functions ;	1
• Integral ; Area under curve	2
• Applications	7
	2
Tutorial / Other Activities	5
TOTAL CREDIT	90