

Course Weekly Outline

Course Instructor	Wisam H. Al Aniezy				
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Title	Mathematical Economics-1-				
Course Coordinator					
Course Objective	<ul style="list-style-type: none"> • Calculate price elasticity evaluated of demand and supply • Find the maximum and minimum points of an economic function • Calculate partial elasticities • Calculate marginal utilities • Use matrix inverses to solve systems of linear equations arising in economics 				
Course Description	The material is wide ranging, and varies from elementary topics such as linear equations, in economics to more sophisticated topics such as constrained optimization of multivariate functions. The book should therefore be suitable for use on both low- and high-level quantitative methods courses in mathematical economics				
Textbook					
References	IAN JACQUES, (2006).MATHEMATICS FOR ECONOMICS , PEARSON EDUCATION LIMITED. ENGLAND				
Course Assessment	Term Tests (30%)	homework (5%)	Quizzes (5%)	Project ----	Final Exam (60%)
General Notes					

Course weekly Outline

week	Date	Topics Covered	Lab.	Notes
1	21/02/2023	elasticity		
2	28/02/2023	Calculate price elasticity of demand and supply		
3	07/03/2023	relationship between price elasticity of demand and revenue		
4	14/03/2023	Optimization of economic functions		
5	21/03/2023	maximum and minimum points of an economic function		
6	28/03/2023	First semester test		
7	04/04/2023	stationary points to sketch graphs of economic functions		
8	11/04/2023	Calculate partial elasticities and marginal utilities		
9	18/04/2023	Calculate the marginal product and marginal rate of technical substitution		
10	25/04/2023	Indefinite integration in economics		
11	02/05/2023	find the determinant and inverse of a 3 · 3 matrix		
12	09/05/2023	second semester test		
13	16/05/2023	Use matrix inverses to solve systems of linear equations arising in economics		
14	23/05/2023	Apply Cramer's rule to analyse static macroeconomic models		
15	30/05/2023	input-output models		
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Instructor Signature:

Dean Signature: