

UNIVERSITAS INDONESIA  
FACULTY OF ECONOMICS and BUSINESS  
GRADUATE PROGRAM IN ECONOMICS

Orientation of Mathematics for Economics Analyses

Instructor: Professor Nachrowi Djalal Nachrowi, Ph.D.

Time Schedule and Coverage

Session (Date)	Subjects	Reference
1(16/08/21) 14.00-16.00	The Nature of Mathematical Economics and Economic Models	Ch 1-2
2(18/08/21) 8.00-10.00	Equilibrium Analysis in Economics	Ch 3 Assignment I
3(20/08/21) 8.00-9.30	Linear Models and Matrix Algebra and their Use in Economics 1	Ch 4
4(20/08/21) 13.30-15.00	Linear Models and Matrix Algebra and their Use in Economics 2	Ch 4-5 Assignment II
5(21/08/21) 8.00-9.30	Linear Models and Matrix Algebra and their Use in Economics 3	Ch 5 Assignment III
6(21/08/21) 10.00-11.30	Comparative-Statics and the Concept of Derivative	Ch 6 Assignment IV
7(23/08/21) 8.00-10.00	Rules of Differentiation and their Use in Comparative Statics 1	Ch 7
8(24/08/21) 8.00-10.00	Rules of Differentiation and their Use in Comparative Statics 2	Ch 7 Assignment V
9(25/08/21) 8.00-10.00	Comparative-Static Analysis of General- Function Models	Ch 8 Assignment VI
28/08/21	<b>Evaluation</b>	

**Text Book:**

Chiang, Alpha C and Kevin Wainwright. 2005. *Fundamental Methods of Mathematical Economics*, Mc Graw-Hill International Edition

**Assignments:**

- I : 3.2:1, 2 ; 3.3: 6, 7; 3.4:3: 3.5: 1, 2  
II : 4.2: 1, 2, 4; 4.4: 1, 3; 4.5: 1; 4.6: 1, 2, 4  
III : 5.2: 1, 4; 5.3: 4; 5.4: 2, 4, 6; 5.5: 1, 3  
IV : 6.2: 1, 2, 3; 6.4: 1, 2, 3; 6.6: 1, 2, 3; 6.7: 2, 3, 4  
V : 7.1: 1, 2, 3; 7.2: 1, 2, 3, 4, 7, 10; 7.3: 1, 2, 3, 4, 5; 7.4: 1, 2, 4, 5; 7.5: 2; 7.6: 1  
VI : 8.1: 1, 2, 3, 6; 8.2: 2, 3, 4, 7; 8.4: 1, 2, 3; 8.5: 1, 2; 8.6: 2