



Topics in Microeconomic Theory EC 425 Course Outline

Objective	This course consists of 36 hours of lectures on various topics in microeconomic theory, taught at the intermediate/advanced undergraduate level. The emphasis throughout is on economic modelling of phenomena as diverse as strategic interaction, collective decision making, general equilbrium, uncertainty and information, contracting and externalities.				
	Name	Office		Ext	E-mail
Lecturer	Dr. Ashley Piggins	Room 329 2 Cairnes Building		2300	ashley.piggins@nuigal way.ie
		Day	Time	Ve	enue
Times	Lectures:	Monday	4 - 5	Cairnes	
		Wednesday	2 - 3	Kii	rwan
		Friday	1 – 2	U	C102 Aras Ui Chathail
Overall Learning Outcomes	Understand how to represent situations of strategic interaction as games. Understand the concepts of dominant strategy equilibrium and Nash equilibrium. Understand mixed strategy equilibrium and use the method of best responses to compute the mixed strategy Nash equilibrium of a game. Apply game-theoretic reasoning to models of oligopoly, second price auctions and the median voter thereom. Understand principles of dynamic games such as backward induction. Understand the basic general equilibrium model of a pure exchange economy using the Edgeworth Box diagram. Understand the fundamental welfare theorems. Understand the majority voting paradox and the difficulties that arise in making social choices. Understand the von Neumann – Morgenstern utility function. Understand the different attitudes to risk. Understand the problems of asymmetric information in markets, and explain how these problems can be overcome. Understand the principle of incentive-compatible contracting.				

Course Name - course code

	Understand the problem of externalities and appreciate the importance of the Coase Theorem.
Format	Three lectures per week, 36 lectures in total. One tutorial every fortnight.
Programme(s)	4BC2, 1EK3, 1EM1, 1OA1, 3BA1, 3BA6, 3BC1, 3BSY2, 3FM2, 4BA4, 4BC3, 4BC6.
Course Material	A course website is available at http://blackboard.nuigalway.ie

Core Text	There is no set text for this course. I will use my own notes. I recommend that you read (in addition to my notes) the relevant chapters in Hal Varian, "Intermediate Microeconomics" (8th edition) and Joel Watson "Strategy: An Introduction to Game Theory" (2nd edition). Ken Binmore's "Playing for Real" is also a very thoughtful introduction to game theory. All of these books are in the library (we have many copies).				
Supplementary Texts					
Assessment	1. End of Year Examination	100%			
Workload hours	Credit weighting:	5 ECTS			
	Lecture hours:	36 hours			
	Tutorials:	4 hours			
	Independent study (including tutorial prep):	58 hours			
	Examination:	2 hours			
	Total Student Effort:	100 hours			

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Lecture Schedule 2012/2013:

Week	Торіс
<u>1</u>	Game Theory
2	Game Theory
<u>3</u>	Game Theory
<u>4</u>	Oligopoly
<u>5</u>	Median Voter Theorem and Auctions
<u>6</u>	General Equilibrium
<u>7</u>	<u>General Equilibrium</u>
<u>8</u>	Welfare Theorems
<u>9</u>	Social Choice Theory
<u>10</u>	Uncertainty and Information
<u>11</u>	Uncertainty and Information
<u>12</u>	Externalities