## Tamkang University Academic Year 106, 2nd Semester Course Syllabus

Course Title	ECONOMIC ANALYSIS AND APPLICATIONS	Instructor	YURY NIKULIN
Course Class	TLQXM2A  MASTER'S PROGRAM IN BUSINESS AND  MANAGEMENT (ENGLISH-TAUGHT PROGRAM),  2A	Details	<ul><li>◆ Selective</li><li>◆ One Semester</li><li>◆ 1 Credits</li></ul>

### Departmental Aim of Education

- I. Develop a business and management perspective for students.
- II. Train the professionals in the integrated fields of business and management.
- III. Cultivate the talents with both theory and practices in business and management.

#### Departmental core competences

- A. Provide the basic knowledge of both theory and practices.
- B. Enhance the practical training for the current trends.
- C. Cultivate the ethics in business and management.
- D. Obtain the ability of analyzing industrial and business problems.

## Course Introduction

In this course, we introduce one of the most powerful tools of modern economics, that is game-theoretic approach. Students will get theoretical and practical knowledge about basic principles of equilibria, steady state, modeling different situations on a financial market, various auctions models etc., by means of game theory.

# The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

P6-Origination

I.Objective Levels (select applicable ones):

(i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying, C4-Analyzing, C5-Evaluating, C6-Creating

(ii) Psychomotor Domain: P1-Imitation, P2-Mechanism, P3-Independent Operation,

P4-Linked Operation, P5-Automation,

(iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing, A4-Organizing, A5-Charaterizing, A6-Implementing

II. The Relevance among Teaching Objectives, Objective Levels and Departmental core competences:

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5,and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

		Relevance	
No	Teaching Objectives	Objective Levels	Departmental core competences
1	Students will acquire analytical and reasoning skills under game		А
	theoretical framework		

#### Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	Students will acquire analytical and reasoning skills under game theoretical framework	Lecture, Practicum, Problem solving	Practicum, Participation

Essential Qualities of TKU Students		Qualities of TKU Students	Description	on
♦ A global perspective		pective	Helping students develop a broader perspective from which to understand international affairs and global development.	
♦ Information literacy		reracy	Becoming adept at using information technology and learning the proper way to process information.	
♦ A vision for the future		e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.	
◇ Moral integrity		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.	
◆ Independent thinking		hinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.	
A cheerful attitude and healthy lifestyle		tude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.	
◆ A spirit of teamwork and dedication		nwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.	
A sense of aesthetic appreciation		thetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.	
			Course Schedule	
Veek	Date	Su	ubject/Topics	Note
1	107/02/26 ~ 107/03/04			
2	107/03/05 ~ 107/03/11			
3	107/03/12 ~ 107/03/18			
4	107/03/19 ~ 107/03/25			
5	107/03/26 ~ 107/04/01			
6	107/04/02 ~ 107/04/08			
7	107/04/09 ~ 107/04/15			
8	107/04/16 ~ 107/04/22			
9	107/04/23 ~ 107/04/29			
10	107/04/30 ~ 107/05/06 107/05/07 ~			
	107/05/07~			
11	101,00,10	107/05/20		
11 —— 12	107/05/14~	Game theory. Strategic game Prisoners Dilemma, Zero-sun		

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13	107/05/21 ~	Auctions. Cournot Duopoly, Bertrand and Stackelberg		
107/05/27		models of Olygopolistic Market. Different Games.		
14	107/05/28 ~ 107/06/03			
15	107/06/04 ~ 107/06/10			
16	107/06/11 ~ 107/06/17			
17	107/06/18 ~ 107/06/24			
18	107/06/25 ~ 107/07/01			
Requirement				
Tea	aching Facility Computer			
Textbook(s)		Robert Gibbons, Game Theory for Applied Economists  Martin J. Osborne and Ariel Rubinstein, A course in game theory		
Reference(s)		https://press.princeton.edu/titles/4993.html https://www.economics.utoronto.ca/osborne/cgt/index.html		
Number of Assignment(s)		2 (Filled in by assignment instructor only)		
Grading Policy		<ul> <li>Attendance: 70.0 % ◆ Mark of Usual: % ◆ Midterm Exam: %</li> <li>Final Exam: %</li> <li>Other ⟨Solving exercises⟩: 30.0 %</li> </ul>		
	This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the  Note home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a> . <a href="http://www.acad.tku.edu.tw/CS/main.php">* Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</a>			

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