Tamkang University Academic Year 107, 1st Semester Course Syllabus

Course Title	FINANCIAL ENGINEERING	Instructor	WANG, REN-HE
Course Class	TLWXB4A BACHELOR'S PROGRAM IN GLOBAL FINANCIAL MANAGEMENT (ENGLISH-TAUGHT PROGRAM),	Details	SelectiveOne Semester3 Credits

Departmental Aim of Education

- I. Learning and instanding international financial theory.
- II. Learn to plan the future.
- Ⅲ. Enhance the ability of practical analysis.
- IV. Increase the team research ability.
- V. Master the international financial pulsation.
- VI. Cultivate morality and global civilization.

Departmental core competences

- A. The student to have a basic knowledge of international financial management theory and practice.
- B. To have a good grounding of relevant financial laws.
- C. To understand the basic moral principles within the international financial industry.
- D. To have a global perspective of the subject and a basic command of foreign language abilities.
- E. To obtain international professional qualifications that will aid their future career.
- F. To obtain a basic ability to examine domestic and global financial situations.

Course Introduction	Derivatives markets have become increasingly important in the world of finance and investments. It is now essential for all finance professionals to understand how these markets work, how they can be used, and what determines prices in them. This course addresses these issues.
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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.)

	Teaching Objectives		Relevance	
No.			Departmental core competences	
1	Introduce the two main products trading on exchanges are futures and options. The market participants are now subject to rules	C5	ADEF	
	specifying how trading must be done, how trades must be reported, and the			
	collateral that must be provided.			

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	Introduce the two main products trading on exchanges are futures and options. The market participants are now subject to rules specifying how trading must be done, how trades must be reported, and the collateral that must be provided.	Discussion, Problem solving	Written test

Essential Qualities of TKU Students		Qualities of TKU Students	Descri	Description	
♦ A global perspective		pective		Helping students develop a broader perspective from which to understand international affairs and global development.	
◆ Information literacy		teracy	Becoming adept at using information te the proper way to process information.	chnology and learning	
♦ 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.		
		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.		
\Diamond	Independent t	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	
♦ 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	
			Course Schedule		
Week	Date		Subject/Topics	Note	
1	107/09/10 ~ 107/09/16	Introduction			
2	107/09/17 ~ 107/09/23	Mechanics of Futures Marke	ets		
3	107/09/24 ~ 107/09/30	Hedging Strategies Using F	utures		
4	107/10/01 ~ 107/10/07	Interest Rates			
5	107/10/08 ~ 107/10/14	Determination of Forward a	and Future Prices		
6	107/10/15 ~ 107/10/21	Interest Rate Futures			
7	107/10/22 ~ 107/10/28	Mechanics of Options Markets			
8	107/10/29 ~ 107/11/04	Properties of Stock Options			
9	107/11/05 ~ 107/11/11	Trading Strategies Involving Options			
10	107/11/12 ~ 107/11/18	Midterm Exam Week			
	107/11/19 ~	Introduction to Binomial Tr	ees		
11	107/11/25				

13 107/12/03 ~ 107/12/09		Valuing Stock Options:The Black-Scholes-Merton		
14 107/12/10 ~ 107/12/16		Model Valuing Stock Options:The Black-Scholes-Merton Model		
15	107/12/17 ~ 107/12/23	The Greek Letters		
16	107/12/24 ~ 107/12/30	Value at Risk		
17	107/12/31 ~ 108/01/06	Value at Risk		
18	108/01/07 ~ 108/01/13	Final Exam Week		
Re	equirement			
Tea	ching Facility	Computer, Projector		
Textbook(s)		Fundamentals of Futures and Options Markets John C. Hull 8 Edition		
Reference(s)				
Number of Assignment(s)		(Filled in by assignment instructor only)		
Grading Policy		 ◆ Attendance: 10.0 % ◆ Mark of Usual: 20.0 % ◆ Midterm Exam: 30.0 % ◆ Final Exam: 40.0 % ◆ Other ⟨ ⟩: % 		
Note		This syllabus may be uploaded at the website of Course Syllabus Management http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload position home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/C www.acad.tku.edu.tw/C www.acad.tku.edu.tw/C www.acad.tku.edu.tw/C www.acad.tku.edu.tw/C www.acad.tku.edu.tw/C https://www.acad.tku.edu.tw/C www.acad.tku.edu.tw/C www.acad.tku.edu.tw/C www.acad.tku.edu.tw/C www.acad.tku.edu.tw/C www.acad.tku.edu.tw/C https://www.acad.tku.edu.tw/C		

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