Tamkang University Academic Year 113, 1st Semester Course Syllabus

Course Title	FINANCIAL ENGINEERING SEMINAR	Instructor CHANG, LI-HAN				
Course Class	TLBBM1A MASTER'S PROGRAM, DEPARTMENT OF Detail BANKING AND FINANCE (ENGLISH-TAUGHT PROGRAM), 1A		 General Course Selective One Semester 3 Credits 			
Relevance to SDGs						
	Departmental Aim of Education					
In full and advanced financial courses to cultivate the international professional financial talents with independent analysis, judgement, and problem solve abilities.						
	Subject Departmental core competences					
A. Cultivate	A. Cultivate advanced knowledge of financial theory (ratio 30.00)					
B. Increase	B. Increase the skill of applied theory and practice.(ratio:10.00)					
C. Increase	the ability of logical deduction.(ratio:5.00)					
D. Learning	and use of financial research method.(ratio:10.00)					
E. Increase the ability to pass the exam of advanced financial professional certificate. (ratio:15.00)						
F. To have	F. To have the potential of future advanced academic study.(ratio:30.00)					
Subject Schoolwide essential virtues						
1. A global perspective. (ratio:10.00)						
2. Information literacy. (ratio:20.00)						
3. A vision for the future. (ratio:10.00)						
4. Moral integrity. (ratio:10.00)						
5. Independent thinking. (ratio:30.00)						
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)						
7. A spirit of teamwork and dedication. (ratio:10.00)						
8. A sense	8. A sense of aesthetic appreciation. (ratio:5.00)					

In	Course Introduction					
 The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives. Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives. I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc. II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc. III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation. 						
No.		Teaching Objectives objective method			objective methods	
1	Understand the application of financial engineering in both Co academic and practical fields.				Cognitive	
The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment						
No.	Core Compet	tences	Essential Virtues	Teaching Methods	Assessment	
1	ABCDEF		12345678	Lecture, Discussion	Testing, Discussion(including classroom and online), Report(including oral and written)	
		1		Course Schedule		
Week	Date		Cour	rse Contents	Note	
1	113/09/09~ 113/09/15	Introduction				
2	113/09/16~ 113/09/22	Mechanics of futures markets				
3	113/09/23~ 113/09/29	Hedging strategies using futures				
4	113/09/30~ 113/10/06	Interest rates				

5	113/10/07~ 113/10/13	Determination of forward and futures prices	
6	113/10/14~ 113/10/20	Mechanics of options markets	
7	113/10/21~ 113/10/27	Properties of stock options	
8	113/10/28~ 113/11/03	Trading strategies involving options	
9	113/11/04~ 113/11/10	Midterm exam week	
10	113/11/11~ 113/11/17	Binomial trees	
11 113/11/18~ 113/11/24 Wiener process and Ito' s lemma			
12	113/11/25 ~ 113/12/01	The Black-Scholes-Merton model	
13	113/12/02 ~ 113/12/08	Option on stock indices and currencies	
14	113/12/09~ 113/12/15	Futures options	
15	113/12/16~ 113/12/22	Presentation	
16	113/12/23~ 113/12/29	Presentation	
17	113/12/30~ 114/01/05	Final exam week	
18	114/01/06~ 114/01/12	Flexible Teaching Week: Generally, no in-person classes; teachers may arrange teaching activities or final assessments, among other options.	
Key capabilities		self-directed learning Problem solving	
Interdisciplinary		STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of A Humanist)	Art and
Distinctive teaching			
Course Content		Logical Thinking	

Requirement		
Textbooks and Teaching Materials	Using teaching materials from other writers:Textbooks Name of teaching materials: Options, Futures, and Other Derivatives, by John C. Hull, 11th edition, 2022.	
Grading Policy	 ◆ Attendance: 10.0 % ◆ Mark of Usual: 30.0 % ◆ Midterm Exam: 30.0 % ◆ Other < >: % 	
Note	 This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php. Wunauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications. 	

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