

Tamkang University Academic Year 107, 1st Semester Course Syllabus

Course Title	FINANCIAL RISK MANAGEMENT	Instructor	LIN, CHIEN-CHIN
Course Class	TLWXB4A BACHELOR'S PROGRAM IN GLOBAL FINANCIAL MANAGEMENT (ENGLISH-TAUGHT PROGRAM), 4A	Details	<ul style="list-style-type: none"> ◆ Selective ◆ One Semester ◆ 3 Credits
Departmental Aim of Education			
<ul style="list-style-type: none"> 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			
<ul style="list-style-type: none"> 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	<p>Class includes four parts: The foundations of risk management, market Risk, credit Risk and the regulation and propection of risk measurement. In the part of the foundations of risk management, we will discuss the the meaning of risk management. In the part of market risk, we introduce the most important measurement for market risk—VaR. In the part of credit risk, we discuss the development of credit risk models. Finally, in the part of the regulation and propection of risk measurement, Basel I & II are discussed.</p>		

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

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, P6-Origination
- (iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing,
A4-Organizing, A5-Characterizing, 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.)

No.	Teaching Objectives	Relevance	
		Objective Levels	Departmental core competences
1	To understand the category, the meaning, the restriction and the goal of risk management.	C2	ABCDE
2	To learn the classical technology for measuring risks, and the most important measurement for market risk—VaR	C3	ACE
3	Study the measurement of credit risk, and develop credit model	C4	ACE

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	To understand the category, the meaning, the restriction and the goal of risk management.	Lecture, Problem solving	Written test, Participation
2	To learn the classical technology for measuring risks, and the most important measurement for market risk—VaR	Lecture, Problem solving	Written test, Participation

3	Study the measurement of credit risk, and develop credit model	Lecture, Problem solving	Written test, Participation
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This course has been designed to cultivate the following essential qualities in TKU students

Essential Qualities of TKU Students	Description
◆ A global perspective	Helping students develop a broader perspective from which to understand international affairs and global development.
◆ Information literacy	Becoming adept at using information technology and learning the proper way to process information.
◆ A vision for the 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	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.
◇ Independent thinking	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	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	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.
◇ A sense of aesthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.

Course Schedule

Week	Date	Subject/Topics	Note
1	107/09/10 ~ 107/09/16	Introduction	
2	107/09/17 ~ 107/09/23	Mechanics of Interest Rate Swaps	
3	107/09/24 ~ 107/09/30	Valuation of Interest Rate Swaps	
4	107/10/01 ~ 107/10/07	Estimating Volatility from Historical Data	
5	107/10/08 ~ 107/10/14	Black-Scholes-Merton Model	
6	107/10/15 ~ 107/10/21	Delta Hedging	
7	107/10/22 ~ 107/10/28	Theta and Gamma	
8	107/10/29 ~ 107/11/04	Examples of the calculation of VaR	
9	107/11/05 ~ 107/11/11	Regulation, Basel II	
10	107/11/12 ~ 107/11/18	Midterm Exam Week	

11	107/11/19 ~ 107/11/25	VaR: Model-Building Approach	
12	107/11/26 ~ 107/12/02	VaR: Applications of Linear Model	
13	107/12/03 ~ 107/12/09	VaR: Linear Model and Options	
14	107/12/10 ~ 107/12/16	Credit ratings and Historical Default Probabilities	
15	107/12/17 ~ 107/12/23	Estimating Default Probabilities	
16	107/12/24 ~ 107/12/30	Credit VaR	
17	107/12/31 ~ 108/01/06	Liquidity Risk	
18	108/01/07 ~ 108/01/13	Final Exam Week	
Requirement			
Teaching Facility	Projector		
Textbook(s)	Risk Management and Financial Institutions-John C. Hull Fundamentals of Futures and Options Markets		
Reference(s)			
Number of Assignment(s)	10 (Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : % ◆ Mark of Usual : % ◆ Midterm Exam : 30.0 % ◆ Final Exam : 40.0 % ◆ Other < In class exercise > : 30.0 %		
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 . ※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.		