## Tamkang University Academic Year 103, 2nd Semester Course Syllabus

ramkang omversity Adademie Tear Too, Zha demester dodrse dynabas			
Course Title	SEMINAR IN FINANCIAL MANAGEMENT I	Instructor	LIN JYH-JIUAN
Course Class	TLSXM1A MASTER'S PROGRAM, DEPARTMENT OF STATISTICS, 1A	Details	<ul><li>◆ Selective</li><li>◆ One Semester</li><li>◆ 3 Credits</li></ul>
Departmental Aim of Education			
I . Cultivate students with ability to conduct research on statistical theory.			
П. Cultivate students with ability for statistical programming.			

IV. Cultivate students with international perspectives.

## Departmental core competences

 $\hbox{$\rm I\hspace{-.1em}I\hspace{-.1em}I}. \quad \hbox{Cultivate students to become statistical professionals with management capabilities}.$ 

- A. Ability to conduct research of statistical theory.
- B. Data analysis skills.
- C. Ability to acquire interdisciplinary knowledge.
- D. Logical thinking ability.
- E. Statistical consulting ability.

	This course focuses on the portfolio optimization from the perspective of		
	computaional finance and financial engineering. It will introduce the statistical		
	methods in financial applications along with R.		
Course			
Introduction			

## 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-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	Cultivate students with ability for statistical analysis and	C4	BD
	programming.		

## Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	Cultivate students with ability for statistical analysis and programming.	Lecture, Discussion, Problem solving	Report, Participation

	T	his course has been designed	to cultivate the following essential qualities	s in TKU students
	Essential (	Qualities of TKU Students	Descripti	on
◇ 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 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.	
		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		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		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	
Week	Date	Subject/Topics Note		Note
1	104/02/24 ~ 104/03/01	Overview of Statistical Methods in Portfolio Optimization and Course Introduction		
2	104/03/02 ~ 104/03/08	Managing Data Sets of Asse	ts -1	
3	104/03/09 ~ 104/03/15	Managing Data Sets of Asse	ts -2	
4	104/03/16 ~ 104/03/22	Managing Data Sets of Assets -3		
5	104/03/23 ~ 104/03/29	Managing Data Sets of Assets -4		
6	104/03/30 ~ 104/04/05	Exploratory Data Analysis of Assets-1		
7	104/04/06 ~ 104/04/12	Exploratory Data Analysis of Assets-2		
8	104/04/13 ~ 104/04/19	Field trip to E. Sun Bank		
9	104/04/20 ~ 104/04/26	Exploratory Data Analysis of	Assets-3	
10	104/04/27 ~ 104/05/03	midterm week		
11	104/05/04 ~ 104/05/10	Exploratory Data Analysis of Assets-4		
12	104/05/11 ~ 104/05/17	Exploratory Data Analysis of Assets-5		

13	104/05/18 ~ 104/05/24	Potfolio Framework-1		
14	104/05/25 ~ 104/05/31	Portfolio Framework -2		
15	104/06/01 ~ 104/06/07	Mean Variance Portfolios-1		
16 104/06/08 ~ 104/06/14		Mean Variance Portfolios-2		
17	104/06/15 ~ 104/06/21	Mean Variance Portfolios-3		
18	104/06/22 ~ 104/06/28	Final week		
English proficiency.  Requirement		English proficiency.		
Tea	Teaching Facility Computer, Projector			
Textbook(s)		Portfolio Optimization with R/Rmetrics,2009,Diethelm Würtz,ohan Chalabi,William Chen&Andrew Ellis		
Reference(s)		Philippe Jorion (2009). Financial Risk Manager Handbook.5th edition, GARP, John Wiely & Sons, Inc.		
Number of Assignment(s)		(Filled in by assignment instructor only)		
Grading Policy		<ul> <li>◆ Attendance: 10.0 % ◆ Mark of Usual: 30.0 % ◆ Midterm Exam: 30.0 %</li> <li>◆ Final Exam: 30.0 %</li> <li>◆ Other ⟨ ⟩: %</li> </ul>		
Note		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  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">wttp://www.acad.tku.edu.tw/CS/main.php</a> . <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">wttp://www.acad.tku.edu.tw/CS/main.php</a> . <a href="http://www.acad.tku.edu.tw/CS/main.php">wttp://www.acad.tku.edu.tw/CS/main.php</a> .   It is a crime to improperly photocopy others' publications.		

TLSXM1M2191 0A Page:4/4 2015/3/26 17:06:11