

## Tamkang University Academic Year 112, 2nd Semester Course Syllabus

Course Title	RESEARCH METHODOLOGY	Instructor	HUANG, CHIEN-MING
Course Class	TLBBM1A MASTER'S PROGRAM, DEPARTMENT OF BANKING AND FINANCE (ENGLISH-TAUGHT PROGRAM), 1A	Details	<ul style="list-style-type: none"> <li>◆ General Course</li> <li>◆ Required</li> <li>◆ One Semester</li> </ul>
Relevance to SDGs	SDG4 Quality education		
<b>Departmental Aim of Education</b>			
In full and advanced financial courses to cultivate the international professional financial talents with independent analysis, judgement, and problem solve abilities.			
<b>Subject Departmental core competences</b>			
<ul style="list-style-type: none"> <li>A. Cultivate advanced knowledge of financial theory.(ratio:20.00)</li> <li>B. Increase the skill of applied theory and practice.(ratio:25.00)</li> <li>C. Increase the ability of logical deduction.(ratio:20.00)</li> <li>D. Learning and use of financial research method.(ratio:25.00)</li> <li>E. Increase the ability to pass the exam of advanced financial professional certificate. (ratio:5.00)</li> <li>F. To have the potential of future advanced academic study.(ratio:5.00)</li> </ul>			
<b>Subject Schoolwide essential virtues</b>			
<ul style="list-style-type: none"> <li>1. A global perspective. (ratio:10.00)</li> <li>2. Information literacy. (ratio:30.00)</li> <li>3. A vision for the future. (ratio:10.00)</li> <li>4. Moral integrity. (ratio:5.00)</li> <li>5. Independent thinking. (ratio:25.00)</li> <li>6. A cheerful attitude and healthy lifestyle. (ratio:5.00)</li> <li>7. A spirit of teamwork and dedication. (ratio:10.00)</li> <li>8. A sense of aesthetic appreciation. (ratio:5.00)</li> </ul>			

Course Introduction	This course aims to build theoretical framework of empirical model and to provide an explicit explanation of regression assumptions for students. By deriving model and applying quantitative methods to current news and specific problems, the course will give students have a well understanding in research methodology.
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**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 methods
1	Students will be able to learn a variety of basic and advanced economic techniques and their empirical applications in finance.	Cognitive
2	Students will be able to be familiar with many important research topics in finance and economics. Among which, they can choose an interesting topic to apply and analyze.	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCDEF	12345678	Lecture, Discussion	Testing, Report(including oral and written)
2	ABCDEF	12345678	Lecture, Discussion	Testing, Study Assignments

**Course Schedule**

Week	Date	Course Contents	Note
1	113/02/19~ 113/02/25	Course introduction and grading description	
2	113/02/26~ 113/03/03	Data types and structures	
3	113/03/04~ 113/03/10	Classical linear regression model	

4	113/03/11 ~ 113/03/17	Difference equations(I)	
5	113/03/18 ~ 113/03/24	Difference equations(II)	
6	113/03/25 ~ 113/03/31	Stationary time-series models (I)	
7	113/04/01 ~ 113/04/07	Stationary time-series models (II)	
8	113/04/08 ~ 113/04/14	Model Volatility (I)	
9	113/04/15 ~ 113/04/21	Model Volatility (II)	
10	113/04/22 ~ 113/04/28	Mid exam week	
11	113/04/29 ~ 113/05/05	Article reading (I)	
12	113/05/06 ~ 113/05/12	Article reading (II)	
13	113/05/13 ~ 113/05/19	Multiequation time-series models	
14	113/05/20 ~ 113/05/26	Cointegration and Error-correction models (I)	
15	113/05/27 ~ 113/06/02	Cointegration and Error-correction models (II)	
16	113/06/03 ~ 113/06/09	Final reports (I)	
17	113/06/10 ~ 113/06/16	Dragon Boat Festival (No class)	
18	113/06/17 ~ 113/06/23	Final reports (II)	
Key capabilities	Problem solving		
Interdisciplinary	<p>STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)</p> <p>Competency-based education 'competency exploration' sustained competency or global issues STEEP (Society, Technology, Economy, Environment, and Politics)</p>		
Distinctive teaching	Special/Problem-Based(PBL) Courses		
Course Content	Logical Thinking		

Requirement	Please be aware of the copyright law and do not make copies illegally.
Textbooks and Teaching Materials	Using teaching materials from other writers:Textbooks
References	
Grading Policy	<p>◆ Attendance : 10.0 %    ◆ Mark of Usual : 10.0 %    ◆ Midterm Exam : 40.0 %</p> <p>◆ Final Exam : 40.0 %</p> <p>◆ Other &lt; &gt; :        %</p>
Note	<p>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> .</p> <p><b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b></p>