

Tamkang University Academic Year 114, 1st Semester Course Syllabus

Course Title	INTRODUCTION TO QUANTITATIVE RESEARCH	Instructor	LIN, MING HUEI
Course Class	TFLXD1A DOCTORAL PROGRAM, DEPARTMENT OF ENGLISH, 1A	Details	◆ General Course ◆ Selective ◆ One Semester ◆ 2 Credits
Relevance to SDGs	SDG4 Quality education		
D e p a r t m e n t a l A i m o f E d u c a t i o n			
<div>I . Cultivate diverse research specialists with abilities in language, literature, culture, and English teaching.</div> <div>II. Carry on and further the excellent tradition of domestic language instruction and literary research to be a department contributing equally to research and language teaching.</div> <div>III. Foster a holistic learning process by putting equal emphasis on language and literature, theory and practice.</div> <div>IV. Strategies</div> <div>1. Train students' abilities in five skills: English listening, speaking, reading, writing and translation.</div> <div>2. Promote technologicalization and internationalization.</div> <div>3. Upgrade the quality and quantity of those students who participate in the Junior Year Abroad program.</div> <div>4. Launch a common English Proficiency Test and enhance students' competitiveness in the job market.</div> <div>5. Enrich international video conferencing.</div> <div>6. Promulgate such areas of research as English and American literature, cultural studies, ecocriticism, and English Teaching.</div>			
Subject Departmental core competences			
<div>A. Nurture the ability to do research in literary studies, language teaching and linguistics. (ratio:25.00)</div> <div>B. Strengthen qualitative and quantative research methods and abilities in critical thinking. (ratio:50.00)</div> <div>C. Cultivate professional ethics and social responsibility.(ratio:25.00)</div>			
Subject Schoolwide essential virtues			
1. A global perspective. (ratio:10.00)			

<div>2. Information literacy. (ratio:20.00)</div> <div>3. A vision for the future. (ratio:10.00)</div> <div>4. Moral integrity. (ratio:10.00)</div> <div>5. Independent thinking. (ratio:20.00)</div> <div>6. A cheerful attitude and healthy lifestyle. (ratio:10.00)</div> <div>7. A spirit of teamwork and dedication. (ratio:10.00)</div> <div>8. A sense of aesthetic appreciation. (ratio:10.00)</div>				
Course Introduction	This course is an introductory course in experimental research methods, specifically designed for the field of TESOL. The course content includes fundamental knowledge of quantitative research, methods for formulating research questions in experimental research, t-tests, ANOVA, and covariance analysis. Additionally, it covers correlation analysis and factor analysis. The course will teach the necessary statistical concepts in a step-by-step manner, progressing from simple to complex, and will require learners to conduct experimental research to practice quantitative analysis operations.			
<div>The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.</div> <div>Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.</div> <div>I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.</div> <div>II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.</div> <div>III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.</div>				
No.	Teaching Objectives			objective methods
1	Students will be able to understand research methods, as well as the basic knowledge of quantitative research and experimental design. Students will be able to conduct experimental research design, data collection, and data analysis.			Cognitive
The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment				
No.	Core Competences	Essential Virtues	Teaching Methods	Assessment

1	ABC	12345678	Lecture, Discussion, Experience	Study Assignments, Discussion(including classroom and online), Report(including oral and written)
Course Schedule				
Week	Date	Course Contents		Note
1	114/09/15 ~ 114/09/21	Orientation		
2	114/09/22 ~ 114/09/28	Unit 1		
3	114/09/29 ~ 114/10/05	Unit 2		
4	114/10/06 ~ 114/10/12	Unit 3		
5	114/10/13 ~ 114/10/19	Unit 4		
6	114/10/20 ~ 114/10/26	Unit 5		
7	114/10/27 ~ 114/11/02	Unit 6		
8	114/11/03 ~ 114/11/09	Unit 7		
9	114/11/10 ~ 114/11/16	Unit 8 & Mid-term		
10	114/11/17 ~ 114/11/23	Unit 9		
11	114/11/24 ~ 114/11/30	Unit 10		
12	114/12/01 ~ 114/12/07	Unit 11		
13	114/12/08 ~ 114/12/14	Unit 12		
14	114/12/15 ~ 114/12/21	Unit 13		
15	114/12/22 ~ 114/12/28	Unit 14		
16	114/12/29 ~ 115/01/04	Unit 15		
17	115/01/05 ~ 115/01/11	To be discussed		
18	115/01/12 ~ 115/01/18	To be decided		
Key capabilities		Problem solving		

Interdisciplinary	Competency-based education 'competency exploration' sustained competency or global issues STEEP (Society, Technology, Economy, Environment, and Politics)
Distinctive teaching	Special/Problem-Based(PBL) Courses
Course Content	Logical Thinking
Requirement	
Textbooks and Teaching Materials	Self-made teaching materials:To be decided Using teaching materials from other writers:To be decided
References	
Grading Policy	<p>◆ Attendance : 10.0 % ◆ Mark of Usual : 20.0 % ◆ Midterm Exam : 30.0 %</p> <p>◆ Final Exam : 40.0 %</p> <p>◆ Other < > : %</p>
Note	<p>This syllabus may be uploaded at the website of Course Syllabus Management System at https://web2.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.</p> <p>※"Adhere to the concept of intellectual property rights" and "Do not illegally photocopy, download, or distribute." Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p>