

Tamkang University Academic Year 114, 2nd Semester Course Syllabus

Course Title	SEMINAR (IV)	Instructor	LAI, WEI-CHI
Course Class	TEDXD2A DOCTORAL PROGRAM, DEPARTMENT OF CHEMICAL AND MATERIALS ENGINEERING, 2A	Details	◆ General Course ◆ Required ◆ One Semester ◆ 1 Credits
Relevance to SDGs	SDG7 Affordable and clean energy		
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			
Education Objectives: Cultivation of chemical/materials engineering experts with professional knowledge and high research-and-development capability.			
Subject Departmental core competences			
A. Possess the advanced knowledge of chemical/material engineering and to be able to use it. (ratio:40.00) B. Capable to plan and execute the chemical/material engineering projects.(ratio:10.00) C. Capable of writing professional papers.(ratio:15.00) D. Capable of creative thinking and solving problem independently.(ratio:10.00) E. Capable to coordinate and integrate interdisciplinary cooperation.(ratio:5.00) F. Possess global vision.(ratio:5.00) G. Qualified capability for leadership, management and planning.(ratio:5.00) H. Capable of self-learning and self-growth.(ratio:10.00)			
Subject Schoolwide essential virtues			
1. A global perspective. (ratio:10.00) 2. Information literacy. (ratio:10.00) 3. A vision for the future. (ratio:15.00) 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 of aesthetic appreciation. (ratio:10.00)			

Course Introduction	This course is to enable the students to understand how to find the references and how to prepare the oral presentation.
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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 have the ability to do the chemical and materials engineering projects.	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCDEFGH	12345678	Lecture, Discussion	Discussion(including classroom and online)

Course Schedule

Week	Date	Course Contents	Note
1	115/02/23 ~ 115/03/01	簡介	
2	115/03/02 ~ 115/03/08	研究題目、背景、與方向	
3	115/03/09 ~ 115/03/15	研究題目、背景、與方向	
4	115/03/16 ~ 115/03/22	研究題目、背景、與方向	
5	115/03/23 ~ 115/03/29	相關文獻搜尋、研讀與整理	
6	115/03/30 ~ 115/04/05	相關文獻搜尋、研讀與整理	

7	115/04/06 ~ 115/04/12	相關文獻搜尋、研讀與整理	
8	115/04/13 ~ 115/04/19	研究策略與方法	
9	115/04/20 ~ 115/04/26	研究策略與方法	
10	115/04/27 ~ 115/05/03	研究策略與方法	
11	115/05/04 ~ 115/05/10	研究結果與分析	
12	115/05/11 ~ 115/05/17	研究結果與分析	
13	115/05/18 ~ 115/05/24	研究結果與分析	
14	115/05/25 ~ 115/05/31	研究報告格式與撰寫	
15	115/06/01 ~ 115/06/07	研究報告格式與撰寫	
16	115/06/08 ~ 115/06/14	口頭報告	
17	115/06/15 ~ 115/06/21	口頭報告	
18	115/06/22 ~ 115/06/28	口頭報告	
Key capabilities			
Interdisciplinary			
Distinctive teaching			
Course Content		Green Energy Sustainability issue	
Requirement			
Textbooks and Teaching Materials		Self-made teaching materials:Handouts Using teaching materials from other writers:Handouts	

References	
Grading Policy	<p>◆ Attendance : % ◆ Mark of Usual : 20.0 % ◆ Midterm Exam : 30.0 %</p> <p>◆ Final Exam : 50.0 %</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>