

## Tamkang University Academic Year 113, 2nd Semester Course Syllabus

Course Title	SEMINAR (IV)	Instructor	WANG, YI-WUN
Course Class	TEDXD2A DOCTORAL PROGRAM, DEPARTMENT OF CHEMICAL AND MATERIALS ENGINEERING, 2A	Details	◆ General Course ◆ Required ◆ One Semester ◆ 1 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			
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	<p>This course will invite the learned scholars and experts to give speeches for students to understand the recent technologies and market of chemical engineering and materials engineering. During the speech, students also can learn how to issue questions and discuss with the speakers. This course will also train the students to learn the methods of collecting, analyzing, and organizing data, reading literature, and writing reports.</p>
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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	To learn about recent technologies of chemical and materials engineering, the methods of collecting,analyzing and organizing data,how to prepare slides and give an oral presentation and write a report.	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), Report(including oral and written)

**Course Schedule**

Week	Date	Course Contents	Note
1	114/02/17 ~ 114/02/23	Introduction	
2	114/02/24 ~ 114/03/02	Literature survey and data collecting	
3	114/03/03 ~ 114/03/09	Literature survey and data collecting	
4	114/03/10 ~ 114/03/16	Invited lecture (—)	

5	114/03/17 ~ 114/03/23	Data analysis and organization	
6	114/03/24 ~ 114/03/30	Data analysis and organization	
7	114/03/31 ~ 114/04/06	how to prepare slides	
8	114/04/07 ~ 114/04/13	how to prepare slides	
9	114/04/14 ~ 114/04/20	Mid-term Exam	
10	114/04/21 ~ 114/04/27	Invited lecture (二)	
11	114/04/28 ~ 114/05/04	how to give a presentation	
12	114/05/05 ~ 114/05/11	how to give a presentation	
13	114/05/12 ~ 114/05/18	how to write a report	
14	114/05/19 ~ 114/05/25	how to write a report	
15	114/05/26 ~ 114/06/01	Oral presentation	
16	114/06/02 ~ 114/06/08	Oral presentation	
17	114/06/09 ~ 114/06/15	Final exam	
18	114/06/16 ~ 114/06/22	Oral presentation	
Key capabilities			
Interdisciplinary			
Distinctive teaching			
Course Content		Logical Thinking	
Requirement			

Textbooks and Teaching Materials	Self-made teaching materials:Presentations
References	
Grading Policy	<p>◆ Attendance :            %    ◆ Mark of Usual : 20.0 %    ◆ Midterm Exam : 40.0 %</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 <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>