

Tamkang University Academic Year 108, 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	<ul style="list-style-type: none"> ◆ General Course ◆ Required ◆ One Semester
Departmental Aim of Education			
Education Objectives: Cultivation of chemical/materials engineering experts with professional knowledge and high research-and-development capability.			
Subject Departmental core competences			
<p>A. Possess the advanced knowledge of chemical/material engineering and to be able to use it. (ratio:50.00)</p> <p>B. Capable to plan and execute the chemical/material engineering projects.(ratio:10.00)</p> <p>C. Capable of writing professional papers.(ratio:20.00)</p> <p>D. Capable of creative thinking and solving problem independently.(ratio:10.00)</p> <p>H. Capable of self-learning and self-growth.(ratio:10.00)</p>			
Subject Schoolwide essential virtues			
<p>2. Information literacy. (ratio:10.00)</p> <p>3. A vision for the future. (ratio:10.00)</p> <p>5. Independent thinking. (ratio:80.00)</p>			
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>		

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 engineering	Cognitive
2	To learn about recent technologies of materials engineering	Cognitive
3	To learn how to issue questions and discuss with the speakers	Cognitive
4	To learn the methods of collecting, analyzing and organizing data	Cognitive
5	To learn how to write a report	Cognitive
6	To learn how to prepare slides and give an oral presentation	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ACH	235	Lecture, Discussion	Report(including oral and written), Activity Participation
2	ACH	235	Lecture, Discussion	Report(including oral and written), Activity Participation
3	AD	235	Discussion	Activity Participation
4	ABH	235	Lecture, Discussion	Report(including oral and written)
5	AC	235	Lecture, Discussion	Report(including oral and written)
6	AC	235	Lecture, Discussion	Report(including oral and written), Activity Participation

Course Schedule

Week	Date	Course Contents	Note
1	109/03/02 ~ 109/03/08	Introduction	
2	109/03/09 ~ 109/03/15	Invited lecture (—)	

3	109/03/16 ~ 109/03/22	Invited lecture (二)	
4	109/03/23 ~ 109/03/29	Invited lecture (三)	
5	109/03/30 ~ 109/04/05	Literature survey and data collecting	
6	109/04/06 ~ 109/04/12	Invited lecture (四)	
7	109/04/13 ~ 109/04/19	Invited lecture (五)	
8	109/04/20 ~ 109/04/26	Invited lecture (六)	
9	109/04/27 ~ 109/05/03	Mid-term Exam	
10	109/05/04 ~ 109/05/10	Data analysis and organization	
11	109/05/11 ~ 109/05/17	Invited lecture (七)	
12	109/05/18 ~ 109/05/24	Invited lecture (八)	
13	109/05/25 ~ 109/05/31	Invited lecture (九)	
14	109/06/01 ~ 109/06/07	Invited lecture (十)	
15	109/06/08 ~ 109/06/14	Oral report	
16	109/06/15 ~ 109/06/21	Oral report	
17	109/06/22 ~ 109/06/28	Final exam	
18	109/06/29 ~ 109/07/05	Supplementary teaching: Oral report	
Requirement			
Teaching Facility		Computer, Projector	
Textbooks and Teaching Materials		Steve Wallace, "How to write and submit an academic paper in 16 weeks" , Wallace Academic Publishing, 2009.	
References			
Number of Assignment(s)		3 (Filled in by assignment instructor only)	
Grading Policy		◆ Attendance : 20.0 % ◆ Mark of Usual : 30.0 % ◆ Midterm Exam : % ◆ Final Exam : 30.0 % ◆ Other 〈report〉 : 20.0 %	

Note	<p>This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.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>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p>
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