

## Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	SEMINAR (III)	Instructor	WANG, YI-WUN
Course Class	TEDXD2A DOCTORAL PROGRAM, DEPARTMENT OF CHEMICAL AND MATERIALS ENGINEERING, 2A	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 SDG9 Industry, Innovation, and Infrastructure		
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			
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 will train the students to learn the methods of collecting, analyzing, organizing data, reading literature and writing reports.
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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	Survey and reading of scientific literature.	Psychomotor
2	To learn about recent technologies of chemical and materials engineering	Cognitive
3	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	ABCDEFGH	12345678	Discussion	Discussion(including classroom and online), Report(including oral and written)
2	ABCDEFGH	12345678	Lecture, Discussion	Discussion(including classroom and online)
3	ABCDEFGH	12345678	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written)

**Course Schedule**

Week	Date	Course Contents	Note
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1	111/09/05 ~ 111/09/11	Introduction	
2	111/09/12 ~ 111/09/18	Literature survey	
3	111/09/19 ~ 111/09/25	Literature survey	
4	111/09/26 ~ 111/10/02	Data collecting	
5	111/10/03 ~ 111/10/09	Data collecting	
6	111/10/10 ~ 111/10/16	Data analysis	
7	111/10/17 ~ 111/10/23	Data analysis	
8	111/10/24 ~ 111/10/30	Data analysis	
9	111/10/31 ~ 111/11/06	Data organization	
10	111/11/07 ~ 111/11/13	Data organization	
11	111/11/14 ~ 111/11/20	Data organization	
12	111/11/21 ~ 111/11/27	Invited lecture	
13	111/11/28 ~ 111/12/04	Invited lecture	
14	111/12/05 ~ 111/12/11	Invited lecture	
15	111/12/12 ~ 111/12/18	Oral report	
16	111/12/19 ~ 111/12/25	Oral report	
17	111/12/26 ~ 112/01/01	Oral report	
18	112/01/02 ~ 112/01/08	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 Textbook(s) Academic Publishing, 2009	
References			

Number of Assignment(s)	3 (Filled in by assignment instructor only)
Grading Policy	◆ Attendance : 10.0 %   ◆ Mark of Usual : 45.0 %   ◆ Midterm Exam : % ◆ Final Exam : % ◆ Other (report) : 45.0 %
Note	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> . <b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b>