

## Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	SEMINAR (I)	Instructor	WANG, YI-WUN
Course Class	TEDXD1A DOCTORAL PROGRAM, DEPARTMENT OF CHEMICAL AND MATERIALS ENGINEERING, 1A	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:50.00) B. Capable to plan and execute the chemical/material engineering projects.(ratio:10.00) C. Capable of writing professional papers.(ratio:20.00) D. Capable of creative thinking and solving problem independently.(ratio:10.00) H. Capable of self-learning and self-growth.(ratio:10.00)			
Subject Schoolwide essential virtues			
2. Information literacy. (ratio:10.00) 3. A vision for the future. (ratio:10.00) 5. Independent thinking. (ratio:80.00)			

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	ABCDH	235	Discussion	Discussion(including classroom and online), Report(including oral and written)
2	ABCDH	235	Lecture, Discussion	Discussion(including classroom and online)
3	ABCDH	235	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written)

**Course Schedule**

Week	Date	Course Contents	Note

1	110/09/22 ~ 110/09/28	Introduction	
2	110/09/29 ~ 110/10/05	Literature survey	
3	110/10/06 ~ 110/10/12	Literature survey	
4	110/10/13 ~ 110/10/19	Data collecting	
5	110/10/20 ~ 110/10/26	Data collecting	
6	110/10/27 ~ 110/11/02	Data analysis	
7	110/11/03 ~ 110/11/09	Data analysis	
8	110/11/10 ~ 110/11/16	Data analysis	
9	110/11/17 ~ 110/11/23	Data organization	
10	110/11/24 ~ 110/11/30	Data organization	
11	110/12/01 ~ 110/12/07	Data organization	
12	110/12/08 ~ 110/12/14	Invited lecture	
13	110/12/15 ~ 110/12/21	Invited lecture	
14	110/12/22 ~ 110/12/28	Invited lecture	
15	110/12/29 ~ 111/01/04	Oral report	
16	111/01/05 ~ 111/01/11	Oral report	
17	111/01/12 ~ 111/01/18	Oral report	
18	111/01/19 ~ 111/01/25	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>