## Tamkang University Academic Year 105, 1st Semester Course Syllabus

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Course Title	SEMINAR (I)	Instructor	LAI,WEI-CHI
Course Class	TEDXD1A  DOCTORAL PROGRAM, DEPARTMENT OF  CHEMICAL AND MATERIALS ENGINEERING, 1A	Details	<ul><li>Required</li><li>One Semester</li><li>1 Credits</li></ul>
	Departmental Aim of Educ	ation	
	Education Objectives: Cultivation of chemical/materials engineering experts with professional knowledge and high research-and-development capability.		
	Departmental core competences		
A. Possess	the advanced knowledge of chemical/material engineering and	to be able to	use it.
B. Capable	to plan and execute the chemical/material engineering projects	S.	
C. Capable	of writing professional papers.		
D. Capable	D. Capable of creative thinking and solving problem independently.		
E. Capable	to coordinate and integrate interdisciplinary cooperation.		
F. Possess	global vision.		
G. Qualifie	G. Qualified capability for leadership, management and planning.		
H. Capable of self-learning and self-growth.			
	This course is to enable the students to understand how to find how to prepare the oral prsentation.	nd the referen	nces and
Course			
Introduction			

## The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

P6-Origination

I.Objective Levels (select applicable ones):

(i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying, C4-Analyzing, C5-Evaluating, C6-Creating

(ii) Psychomotor Domain: P1-Imitation, P2-Mechanism, P3-Independent Operation,

P4-Linked Operation, P5-Automation,

(iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing, A4-Organizing, A5-Charaterizing, A6-Implementing

II. The Relevance among Teaching Objectives, Objective Levels and Departmental core competences:

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5,and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

			Relevance	
No	Teaching Objectives	Objective Levels	Departmental core competences	
1	Students will be able to have the ability to do the chemical and		А	
	materials engineering projects.			

## Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	Students will be able to have the	Lecture	Written test
	ability to do the chemical and		
	materials engineering projects.		

Essential Qualities of TKU Students		Qualities of TKU Students	Descript	tion
♦ A global perspective		pective	Helping students develop a broader perspective from which to understand international affairs and global development.	
◇ Information literacy		reracy	Becoming adept at using information technology and learning the proper way to process information.	
♦ A vision for the future		e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.	
		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.	
		hinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.	
A cheerful attitude and healthy lifestyle		tude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.	
		nwork and dedication	Improving one's ability to communicate a integrate resources, collaborate with othe problems.	nd cooperate so as to ers, and solve
		thetic appreciation	Equipping students with the ability to sen aesthetic beauty, to express themselves of the creative process.	
			Course Schedule	
Week	Date		Subject/Topics	Note
1	105/09/12 ~ 105/09/18	簡介		
2	105/09/19 ~ 105/09/25	研究題目、背景、與方向		
3	105/09/26 ~ 105/10/02	研究題目、背景、與方向		
4	105/10/03 ~ 105/10/09	研究題目、背景、與方向		
5	105/10/10 ~ 105/10/16	相關文獻搜尋、研讀與整理		
6	105/10/17 ~ 105/10/23	相關文獻搜尋、研讀與整理		
7	105/10/24 ~ 105/10/30	相關文獻搜尋、研讀與整理		
8	105/10/31 ~ 105/11/06	研究策略與方法		
9	105/11/07 ~ 105/11/13	研究策略與方法		
	105/11/14 ~ 105/11/20	研究策略與方法		
10	105/11/21~	   研究結果與分析		
10 11	105/11/27			

13	105/12/05 ~ 105/12/11	研究結果與分析		
14	105/12/12 ~ 105/12/18	研究報告格式與撰寫		
15	5			
16 105/12/26 ~ 106/01/01		口頭報告		
17	106/01/02 ~ 106/01/08	口頭報告		
18	106/01/09 ~ 106/01/15	口頭報告		
Requirement				
Tea	eaching Facility Computer, Projector			
Textbook(s)		自製講義		
Reference(s)				
Number of Assignment(s)		(Filled in by assignment instructor only)		
Grading Policy		<ul> <li>◆ Attendance: 50.0 % ◆ Mark of Usual: % ◆ Midterm Exam: %</li> <li>◆ Final Exam: 50.0 %</li> <li>◆ Other ⟨ ⟩ : %</li> </ul>		
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> . <a href="http://www.acad.tku.edu.tw/CS/main.php">W Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</a>		

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