Tamkang University Academic Year 105, 2nd Semester Course Syllabus

Course Title	SEMINAR (IV)	Instructor	CHENG, LIAO-PING
Course Class	TEDXD2A DOCTORAL PROGRAM, DEPARTMENT OF CHEMICAL AND MATERIALS ENGINEERING, 2A	Details	◆ Required◆ One Semester◆ 1 Credits
	Departmental Aim of Educ	ation	
	Objectives: Cultivation of chemical/materials engineering experts and high research-and-development capability.	s with profession	onal
	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	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. Qualified	d capability for leadership, management and planning.		
H. Capable	H. Capable of self-learning and self-growth.		
	Survey and reading of scientific literature.		
			4
Course			
Introduction			4

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	Training of chemical/materials engineering experts with professional	C5	ABCD
	knowledge and research-and-development capability.		

Teaching Objectives, Teaching Methods and Assessment

		_			
No.	Teaching Objectives	Teaching Methods	Assessment		
1	Training of chemical/materials engineering experts with professional knowledge and research-and-development capability.	Discussion	Report, Participation		

Essential Qualities of TKU Students		Qualities of TKU Students	Descript	ion	
♦ A global perspective		pective	Helping students develop a broader perspective from which to understand international affairs and global development.		
◆ Information literacy		eracy	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.		
		y	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.		
A spirit of teamwork and dedication		nwork and dedication	Improving one's ability to communicate a integrate resources, collaborate with othe problems.	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve	
♦ A sense of aesthetic appreciation		thetic appreciation	Equipping students with the ability to sense aesthetic beauty, to express themselves cl the creative process.		
		1	Course Schedule		
Week	Date	Subject/Topics Note			
1	106/02/13 ~ 106/02/19	文獻蒐集方法			
2	106/02/20 ~ 106/02/26	文獻蒐集方法			
3	106/02/27 ~ 106/03/05	文獻蒐集、研讀、討論			
4	106/03/06 ~ 106/03/12	文獻蒐集、研讀、討論			
5	106/03/13 ~ 106/03/19	文獻蒐集、研讀、討論			
6	106/03/20~ 106/03/26	文獻蒐集、研讀、討論			
7	106/03/27 ~ 106/04/02	文獻蒐集、研讀、討論			
8	106/04/03 ~ 106/04/09	文獻蒐集、研讀、討論			
9	106/04/10 ~ 106/04/16	文獻蒐集、研讀、討論			
10	106/04/17 ~ 106/04/23	文獻蒐集、研讀、討論			
11	106/04/24 ~ 106/04/30	文獻蒐集、研讀、討論			
	106/05/01~	 文獻蒐集、研讀、討論			

13	106/05/08 ~ 106/05/14	文獻蒐集、研讀、討論
14	106/05/15 ~ 106/05/21	文獻蒐集、研讀、討論
15	106/05/22 ~ 106/05/28	文獻蒐集、研讀、討論
16	106/05/29 ~ 106/06/04	文獻蒐集、研讀、討論
17	106/06/05 ~ 106/06/11	文獻蒐集、研讀、討論
18	106/06/12 ~ 106/06/18	文獻蒐集、研讀、討論
Re	quirement	
Tea	eaching Facility Computer, Projector	
Textbook(s)		
Reference(s)		
Number of Assignment(s)		(Filled in by assignment instructor only)
Grading Policy		 Attendance: %
	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 Note home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php . ※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.	

TEDXD2T1003 0A Page:4/4 2017/1/11 11:33:48