

Tamkang University Academic Year 101, 2nd Semester
Course Syllabus

Course Title	Technical Writing (II)		Instructor	CHEN KAN-NAN	
Department/Year/Class		Course Details			
TEDXM1A		<input type="checkbox"/> Required <input checked="" type="checkbox"/> Selective	<input checked="" type="checkbox"/> 0 (One Semester) <input type="checkbox"/> 1 (1st Semester) <input type="checkbox"/> 2 (2nd Semester) <input type="checkbox"/> 3 (3rd Semester)	Credits	1
Aim of Education			Core Competences		
<p>It is aiming at chemical engineering and material engineering major students to become well-trained capable engineers.</p>			<p>A. Possess and able to use its advanced knowledge of chemical engineering and material engineering talents. B. Capable to plan and execute the chemical engineering and material engineering projects. C. Comprehend the development of own specialty and sustainable advancement of inter- disciplinary training. D. Creative thinking and independent problem solving. E. Inter-disciplinary communication skills and team work efforts. F. Professional conduct, social responsibility, global vision and foreign language skills will be strengthened.</p>		
<p>Course Introduction (50 to 100 words)</p>		<p>The essentials of English technical writing will be introduced and discussed. Reading and writing techniques will be focus and the different writing patterns will also be emphasized. Selected papers published in journals of chemical engineering and material engineering fields will be demonstrated and analyzed throughout this course.</p>			

The Relevance among Teaching Objectives, Objective Levels and Core Competences

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 、 P6 Origination

(III) Affective Domain : A1 Receiving 、 A2 Responding 、 A3 Valuing 、 A4 Organizing 、 A5 Charaterizing 、 A6 Implementing

II. The Relevance among Teaching Objectives, Objective Levels and Core Competences :

- (I) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objectives. 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 core competences that correspond to each teaching objective. Each objective may correspond to one or more core competences at a time. (For example, if one objective corresponds to three core competences: A, AD, and BEF, list all of the three in the box.)

Teaching objectives	Relevance	
	Objective Levels	Core Competences
1. The graduate students are expected to learn the format of research papers and to master the essentials of technical writing. Enhancement of reading and writing capabilities is also expected through intensive reading of original papers.	C6	F
2 Enhancement of reading and writing capabilities is also expected through intensive reading of original papers.	C6	F
3		

Teaching Objectives, Teaching Methods and Assessment

Teaching Objectives	Teaching Methods	Assessment
1. The graduate students are expected to learn the format of research papers and to master the essentials of technical writing.	Lectures, discussion, and presentation	Term paper and some home works
2 Enhancement of reading and writing capabilities is also expected through intensive reading of original papers.	Lectures, discussion, and presentation	Term paper and some home works
3		

This course has been designed to cultivate the following essential qualities in TKU students.

Essential Qualities of TKU Students	Description
<input checked="" type="checkbox"/> global perspectives	翻譯建構中
<input type="checkbox"/> a vision for the future	
<input type="checkbox"/> information literacy	
<input checked="" type="checkbox"/> ethical and moral principles	

<input type="checkbox"/> independent thinking			
<input type="checkbox"/> an awareness of healthy living			
<input type="checkbox"/> effective teamwork			
<input checked="" type="checkbox"/> an appreciation of the arts			
Course Schedule			
Week	Date	Subject/Topics	Note
1		Introduction	
2		Scientific publications (1)	
3		Scientific publications (2)	
4		Scientific publications (3)	
5		Scientific publications (4)	
6		Scientific publications(5)	
7		Pattern of technical writings (1)	
8		Pattern of technical writings (2)	
9		Pattern of technical writings (3)	
10		Midterm Exam Week	
11		Technical reports (1)	
12		Technical reports (2)	
13		Original Paper (1)	
14		Original Paper (2)	
15		Patents (1)	
16		Patents (2)	
17		Technical Paper Review	
18		Final Exam Week	
Requirement	Minimum English level is required.		
Teaching Facility	<input checked="" type="checkbox"/> Computer <input type="checkbox"/> Overhead Projector <input checked="" type="checkbox"/> Other (black board)		
Textbook(s)	Self-organized teaching materials		
Suggested Readings	Periodicals		
Number of Assignment(s)	(Filled in only for those courses that apply)		
Grading Policy	◆attendance: 20.0 % ◆presentations:40.0 % ◆term paper:40.0 %		

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/index.asp.</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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Form No. : ATRX-Q03-001-FM201-05