

Tamkang University Academic Year 104, 2nd Semester Course Syllabus

Course Title	PAPER WRITING TECHNIQUE	Instructor	PETER LIU
Course Class	TETXD1A DOCTORAL PROGRAM, DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING, 1A	Details	<ul style="list-style-type: none"> ◆ Selective ◆ One Semester ◆ 3 Credits
D e p a r t m e n t a l A i m o f E d u c a t i o n			
<ul style="list-style-type: none"> I . Educate students to have electrical and robotics engineering knowledge to solve electrical engineering related problems. II. Educate the student as a senior electrical engineer to enable creative thinking, to be independently complete the assigned tasks and be willing to work as a team member. III. Educate students to have advanced global awareness to cope with the challenges of modern diversified professor careers. 			
D e p a r t m e n t a l c o r e c o m p e t e n c e s			
<ul style="list-style-type: none"> A. Have professional knowledge in the fields of VLSI and computer system; communication and electromagnetic; control chips and system. B. Have the ability to plan and execute electrical engineering research studies. C. Have the ability to prepare professional papers in the electrical engineering field. D. Have the abilities to be creative thinking and to independently solve electrical engineering related problems. E. Have the ability to lead, manage, plan, coordinate and integrate personnel from various fields. F. Have advanced global awareness and the ability of lifelong self-study. 			
Course Introduction	This course covers technical communication in general with emphasis on technical paper writing and verbal communications (including presentations).		

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

I. Objective Levels (select applicable ones) :

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|-------------------------|-------------------------------------|---------------------------|
| (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 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.)

No.	Teaching Objectives	Relevance	
		Objective Levels	Departmental core competences
1	This course covers technical communication in general with emphasis on technical paper writing and verbal communications (including presentations).	C4	BC

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	This course covers technical communication in general with emphasis on technical paper writing and verbal communications (including presentations).	Discussion, Practicum	Report, Participation

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

Essential Qualities of TKU Students	Description
◇ A global perspective	Helping students develop a broader perspective from which to understand international affairs and global development.
◇ Information literacy	Becoming adept at using information technology and learning the proper way to process information.
◇ A vision for the future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.
◇ Moral integrity	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.
◇ Independent thinking	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	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	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.
◇ A sense of aesthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.

Course Schedule

Week	Date	Subject/Topics	Note
1	105/02/15 ~ 105/02/21	Course prerequisites and introduction to technical writing	
2	105/02/22 ~ 105/02/28	Research Flow and Literature Review	
3	105/02/29 ~ 105/03/06	Problem Statement and Research Method	
4	105/03/07 ~ 105/03/13	Parts of a Technical Paper	
5	105/03/14 ~ 105/03/20	Executing the writing process - I	
6	105/03/21 ~ 105/03/27	Executing the writing process - II	
7	105/03/28 ~ 105/04/03	Utilizing graphics and visuals - I	
8	105/04/04 ~ 105/04/10	Utilizing graphics and visuals - II	
9	105/04/11 ~ 105/04/17	Describing mechanisms and giving instructions	
10	105/04/18 ~ 105/04/24	Analyze a process	
11	105/04/25 ~ 105/05/01	Writing proposals - I	
12	105/05/02 ~ 105/05/08	Writing proposals - II	

13	105/05/09 ~ 105/05/15	Managing Visual Communications - I	
14	105/05/16 ~ 105/05/22	Managing Visual Communications - II	
15	105/05/23 ~ 105/05/29	Student Presentations - I	
16	105/05/30 ~ 105/06/05	Student Presentations - II	
17	105/06/06 ~ 105/06/12	LaTex-I	
18	105/06/13 ~ 105/06/19	LaTex-II	
Requirement	全英文授課		
Teaching Facility	Computer		
Textbook(s)	Course foils		
Reference(s)			
Number of Assignment(s)	5 (Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 30.0 % ◆ Mark of Usual : % ◆ Midterm Exam : % ◆ Final Exam : 30.0 % ◆ Other 〈期末報告〉 : 40.0 %		
Note	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/CS/main.php . ※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.		