## Tamkang University Academic Year 2012, 2<sup>nd</sup> Semester

Course Syllabus

Course Title	Technical Paper Wri	nical Paper Writing		Instructor		Peter Liu	
Departm	ent/Year/Class	Course Details					
Dept. of Electrony Doctorate Prog	ctrical Engineering, gram	□Required ■Selective		-	Credits 3		
	Aim of Education		Core Competences				
<ol> <li>Teach students how to solve electrical problems with electrical engineering/robotic knowledge.</li> <li>Teach students creative thinking and how to be a senior electrical engineer with ability to independently complete the assigned job and have a team work attitude.</li> <li>Teach students global perspective and skills to achieve global competitiveness and face various challenges in the career environment.</li> </ol>			<ul> <li>A. Have the ability of solving the electrical engineering problem with the professional knowledge.</li> <li>B. Have the ability to manage and execute electrical engineering projects.</li> <li>C. Have the ability of writing professional technical papers.</li> <li>D. Have the creative thinking and ability of solving electrical problems independently.</li> <li>E. Have the ability to cooperate with people who are from the different professional areas.</li> <li>F. Have a global perspective.</li> <li>G. Have the ability to lead, manage and plan.</li> <li>H. Have the lifetime ability to self education.</li> </ul>				
Course Introduction (50 to 100 words)	This course gives the executing efficient delivering presentati	technical comr		-			-
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							
II.The Releva (I)Determ psych should (II)If more one of C6, se Doma (III)Determ may c	<b>A6 Imple</b> <b>Ince among Teaching</b> ine the objective level omotor, and affective d correspond to the objective 1 nly. (For example, if the elect C6 only and fill and Affective Dor- mine the core competer correspond to one or the sponds to three core competers	g Objectives, ( el(s) in any one correspondin bjective level(s evels are applied the objective le it in the boxes nain.) cences that corr nore core comp	of the three g to the teac ) of ONLY ( cable for eac evels for Cog below. The s respond to ea petences at a	learning domain hing objectives. ONE of the three th learning doma gnitive Domain i same rule applie ach teaching object time. (For exam	ns (cog Each c e doma ain, sele nclude s to Psy ective. nple, if	nitive objec ins. ect th C3, ychor Each one	e, tive he highest C5, and motor objective objective

Teaching objectives			Relevance		
			Core Competences		
1 Understand role of technical communications in engineer's professional career			CDG		
2 Execute efficient data gathering and categorization with emphasis on literature review			ABCD		
3 Identifying the research problem statement			BCD		
4 Using professional typesetting tools			AC		
5 Understand paper submission process	C2, P3, A3	С			
6 Delivering professional presentations	C4, P6, A6	EFGH			
7 Writing professional curriculum vitae and resumes			FH		
8 Professional email writing		C4, P6, A6	FH		
Teaching Objectives, T	eaching Methods and Assessme	nt			
Teaching Objectives	Teaching Methods	Assessment			
1 Understand role of technical communications in engineer's professional career	Lecture	Homework			
2 Execute efficient data gathering and categorization with emphasis on literature review	Interaction	In class contribution percentage			
3 Identifying the research problem statement	Actual implementation	Quiz			
4 Using professional typesetting tools	Actual implementation	Final Paper			
5 Understand paper submission process	Actual implementation	Homework			
6 Delivering professional presentations	Actual implementation	Final presentation			
7 Writing professional curriculum vitae and resumes	Lecture	Homework			
8 Professional email writing	Lecture	Homew	ork		
This course has been designed to cultivate the following essential qualities in TKU students.			its.		
Essential Qualities of TKU StudentsDescriptionglobal perspectivesAbility to communicate professional with g		rith global			
$\Box$ a vision for the future	counterparts				
■information literacy	Use of professional typesetting SW packages				
■ethical and moral principles	Identifying and avoiding plagiarism				
■independent thinking	Identifying and defining the research problem				
□an awareness of healthy living					

□effectiv	ve teamwo	ork				
□an appreciation of the arts						
	Course Schedule					
Week	Date	Subject/Topics				
1	2/20	Role of technical communications in an engineer's career				
2	2/27	Efficient technical communications do make a difference				
3	3/6	Research flow and its role in technical communications				
4	3/13	Paper writing's role in the research flow				
5	3/20	Efficient information gathering and literature review				
6	3/27	Identifying and defining the problem statement				
7	4/3	Day Off   教學行政觀摩日				
8	4/10	Identifying and avoiding plagiarism				
9	4/17	Curriculum Vitae, Resume, Emails				
10	4/24	期中考試週 Midterm Exam Week				
11	5/1	Professional Typsetting I – What you see is what you get (WYSIWYG)				
12	5/8	Professional Typsetting II – Latex (Introduction)				
13	5/15	Professional Typsetting III –Latex (Templates, Bibliography, Graphics)				
14	5/22	Delivering presentations I – Storyboarding				
15	5/29	Delivering presentations II – Examples to making the audience fall asleep				
16	6/5	Final presentation				
17	6/12	National Holiday	端午節			
18		期末考試週 Final Exam Week				
Requirement	,					
Teaching Facility	Computer   Overhead Projector   Other ( )					
Textbook(s)	Professional and technical writing strategies: Communication in technology and science, 6 <sup>th</sup> Ed., Judith S. VanAlstyne, Pearson (高立代理)					
Suggested						
Readings	1					
Number of Assignment(s)	5 (Filled in only for those courses that apply)					
Grading	Attendance 10%, Quiz 10%, Homework 25%, Final paper 25%, Final Presentation					
U	30%					

Note	This syllabus may be uploaded at the website of Course Syllabus Management
	System at <u>http://info.ais.tku.edu.tw/csp</u> 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.
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	crime to improperly photocopy others' publications.

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