Tamkang University Academic Year <u>2012</u>, <u>2nd</u> Semester Course Syllabus

Course Title	Seminar (IV)		Instructor		Yang, Lung-Jieh		
Department/Year/Class			C	ourse Details			
	z Electromechanical 012/Doctor program	■Required □Selective	□1 (1st S □2 (2nd S	Semester) emester) Semester)	Cred	dits	1 Credit
	Aim of Education			Core Competences			
 Aim of Education To prepare students who have a comprehensive understanding of the principles of applied sciences and engineering to be innovators in the field of mechanical and electromechanical engineering. To train emerging professionals who possess a high level of expertise and ethical standards who will become independent research and development leaders in the industry. To motivate students who will pursue continuing education as a means to stay on the cutting edge of global competiveness and meet changes in their careers and the workplace with confidence and ease. 			A. Head: Knowledge of mechanical and electromechanical engineering B. Hand: Hands-on skills and practical realization C. Heart: Love of learning and innovation D. Eye: Vision of progress and improvements				
Course Introduction (50 to 100 words)	This course aims to to solving skills in the sengineering. The corcommenting on the send technical manuscript.	specific topics on tents of this co specific topics,	of mechanic ourse include	al and electrome e information ret	echanic rieval	cal , read	ing and

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.)

			Relevance		
Teaching object	Object Lev				
1. To train students in strengthening the critical thinking skill in the topics of mechanical and electromechanical engineering.			4 ABC		
2. To train students in strengthening the problem solving skill in the topics of mechanical and electromechanical engineering.			5 ABC		
3. To train students in strengthening the presentation skill in the topics of mechanical and electromechanical engineering.			3 ABC		
4					
5					
6					
7					
8					
Teaching Objectives,	Teaching Methods and Assessm	ent			
Teaching Objectives Teaching Methods			Assessment		
1. To train students in strengthening the critical thinking skill in the topics of mechanical and electromechanical engineering.	Lecture and discussion	Report, absence			
2. To train students in strengthening the problem solving skill in the topics of mechanical and electromechanical engineering.	Lecture and discussion	Report, absence			

3. To train students in strengthening the presentation skill in the topics of mechanical and electromechanical engineering.			Lecture and discussion	Report, absence		
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			ne following essential qualities			
Essential Qualities of TKU Students global perspectives				Description See the course scope & schedule.		
a vision for the future			See the course scope & schedule.			
-			See the course scope & sch			
information literacy ethical and moral principles			_	Through obeying the rules of exams.		
	endent this					
		healthy living		Through the preparation of the term presentation. Encourage Q&A from students in class.		
	ive teamw			Interact with other guys in the discussion session.		
<u> </u>		of the arts	Through the preparation of the ppt for presentation.			
			ourse Schedule	the ppt for presentation.		
Week	Date		Subject/Topics	Note		
1	Bute	Paper survey, paper reading, report and discussion				
2		Paper survey, paper reading, report and discussion				
3		Paper survey, paper reading, report and discussion				
4		Paper survey, paper reading, report and discussion				
5		Paper survey, paper reading, report and discussion				
6		Paper survey, paper reading, report and discussion				
7		Paper survey, paper reading, report and discussion				
8		Paper survey, paper reading, report and discussion				
9		Paper survey, paper reading, report and discussion				
10		Midterm Exam Week				
11		Paper survey, paper reading, report and discussion				
12		Paper survey, paper reading, report and discussion				
13		Paper survey, paper reading, report and discussion				
14		Paper survey, paper reading, report and discussion				
15		Paper survey, paper reading, report and discussion				
16		Paper survey, paper reading, report and discussion				
17		Paper survey, paper reading, report and discussion				
18		Final Exam Week				

Requirement	whole class time is not allowed for attending the final exam. One time of absence at
	any roll call will lose you 2 scores.Each guy is scheduled to give an oral presentation of 30 min and they should hand in one integrated paper report at the final. The title and the content of the presentation should be discussed with Professor Yang in advance.
Teaching Facility	Computer Overhead Projector Other ()
Textbook(s)	Provided by the professor.
Suggested Readings	No English textbook but you can dowload all the PPT files at the website>http://tsp.ec.tku.edu.tw/QuickPlace/ljyang/Main.nsf/h_Toc/36EE6A7F4538CB5E482 56DD80016CA67/?OpenDocument
Number of Assignment(s)	Filled in only for those courses that apply
Grading	♦ Class attending: 50.0 %
Policy	◆ Term presentation: 50.0 %
NTaka	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 . **Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.

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