Tamkang University Academic Year 106, 1st Semester Course Syllabus

Course Title	SEMINAR (III)	Instructor	KANG SHUNG-WEN	
Course Class	TEBXD2A DOCTORAL PROGRAM, DEPARTMENT OF MECHANICAL AND ELECTRO-MECHANICAL ENGINEERING, 2A	Details	 Required One Semester 1 Credits 	
	Departmental Aim of Educ	ation		
science	I. 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.			
	I. 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.			
cutting	 III. 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. 			
	Departmental core competences			
 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	This course is designed to help students learn how to study t compilation of relevant information, analysis and discussion papers, books, and patents, decided to study methods, exect solving.	of related rese	earch	

The Relevance among Teaching Objectives, Objective Levels and Departmental 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 :	Pl-Imitation,	P2-Mechanism,	P3-Independent Operation,
	P4-Linked Operati	on, P5-Automation,	P6-Origination
(iii) Affective Domain :	Al-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.)

	Teaching Objectives		Relevance	
No			Objective Levels	Departmental core competences
1	To explore and learn the motivation and the i	o explore and learn the motivation and the innovative purpose of		
	scientific and engineering research.			ABCD
	Teaching Object	ives, Teaching Methods and Assessme	ent	
No	Teaching Objectives	Teaching Methods		Assessment
1	To explore and learn the motivation and the innovative purpose of scientific and engineering research.	Lecture, Discussion, Appreciation, Simulation, Practicum, Problem solving	Written te Participat	est, Report, ion

Essential Qualities of TKU Students		Qualities of TKU Students	Descri	ption	
♦ A global perspective		pective	Helping students develop a broader perspective from which to understand international affairs and global development.		
◆ Information literacy		teracy	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.		
Moral integrity		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.		
Independent thinking		thinking		Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.	
$igodoldsymbol{ }$ A cheerful attitude and healthy lifestyle		itude 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.	
igoplus A spirit of teamwork and dedication		mwork and dedication		Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve	
◆ A sense of aesthetic appreciation		sthetic appreciation		Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy	
	1		Course Schedule		
Neek	Date		Subject/Topics	Note	
1	106/09/18 ~ 106/09/24	Introduction			
2	106/09/25 ~ 106/10/01	Papers reading, analyzing and discussion			
3	106/10/02 ~ 106/10/08	Papers reading, analyzing and discussion			
4	106/10/09~ 106/10/15	Papers reading, analyzing a	nd discussion		
5	106/10/16~ 106/10/22	Papers reading, analyzing and discussion			
6	106/10/23 ~ 106/10/29	Papers reading, analyzing and discussion			
7	106/10/30~ 106/11/05	Papers reading, analyzing and discussion			
8	106/11/06~ 106/11/12	Papers reading, analyzing and discussion			
9	106/11/13 ~ 106/11/19	Papers reading, analyzing and discussion			
10	106/11/20~ 106/11/26	Midterm Report			
	106/11/27 ~ 106/12/03	Papers reading, analyzing and discussion			
11		Papers reading, analyzing and discussion			

13	106/12/11~ 106/12/17	Papers reading, analyzing and discussion		
14	106/12/18~ 106/12/24	Papers reading, analyzing and discussion		
15	106/12/25~ 106/12/31	Papers reading, analyzing and discussion		
16	107/01/01 ~ 107/01/07	Final Report/Presentation/Group Discussion		
17	107/01/08~ 107/01/14	Final Report/Presentation/Group Discussion		
18	107/01/15~ 107/01/21	Final Report/Presentation/Group Discussion		
Requirement				
Teaching Facility		Computer, Projector		
Textbook(s)		The selected research papers, books and patents		
Reference(s)				
Number of Assignment(s)		(Filled in by assignment instructor only)		
Grading Policy		 Attendance: 15.0 % ◆ Mark of Usual: 15.0 % ◆ Midterm Exam: 30.0 % Final Exam: 40.0 % Other ⟨ ⟩: % 		
	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 Note home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php . Wote With the second post of the second			

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