Tamkang University Academic Year 108, 1st Semester Course Syllabus

Course Title	SEMINAR (III)	Instructor	CHAO CHOUNG-LII
Course Class	TEBXD2A DOCTORAL PROGRAM, DEPARTMENT OF MECHANICAL AND ELECTRO-MECHANICAL FNGINFFRING, 2A	Details	General CourseRequiredOne Semester

Departmental Aim of Education

- 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.
- II. 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.
- 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.

Subject Departmental core competences

- A. Head: Knowledge of mechanical and electromechanical engineering.(ratio:60.00)
- C. Heart: Love of learning and innovation.(ratio:20.00)
- D. Eye: Vision of progress and improvements.(ratio:20.00)

Subject Schoolwide essential virtues

- 1. A global perspective. (ratio:20.00)
- 2. Information literacy. (ratio:50.00)
- 5. Independent thinking. (ratio:30.00)

Course Introduction

This course aims to help students learn how to think up an idea for research, collect/organize the related information, decide on a research method, execute the problem solving process, analyze data and write up/publish results by studying, analyzing and discussing the related research papers, books and patents.

The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

I. Cognitive: Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.

II. Affective: Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.

III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

Week

1

Date

Introduction

108/09/09 ~

108/09/15

	manipulation	n					
No.		objective methods					
1	Think up an idea to re	Cognitive					
2	To decide on a resear	Cognitive					
3	To analyze data and v	Cognitive					
4	To explore and learn t	Cognitive					
	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment						
No.	Core Competences	Essential Virtues	Teaching Methods	Assessment			
1	А	2	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)			
2	A	5	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written)			
3	A	25	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)			
4	С	25	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)			
			Course Schedule				
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Course Contents

Note

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2	108/09/16 ~ 108/09/22	Papers reading, analyzing and discussion
3	108/09/23 ~ 108/09/29	Papers reading, analyzing and discussion
4	108/09/30 ~ 108/10/06	Papers reading, analyzing and discussion
5	108/10/07 ~ 108/10/13	Papers reading, analyzing and discussion
6	108/10/14 ~ 108/10/20	Papers reading, analyzing and discussion
7	108/10/21 ~ 108/10/27	Papers reading, analyzing and discussion
8	108/10/28 ~ 108/11/03	Papers reading, analyzing and discussion
9	108/11/04 ~ 108/11/10	Papers reading, analyzing and discussion
10	108/11/11 ~ 108/11/17	Midterm Report
11	108/11/18 ~ 108/11/24	Papers reading, analyzing and discussion
12	108/11/25 ~ 108/12/01	Papers reading, analyzing and discussion
13	108/12/02 ~ 108/12/08	Papers reading, analyzing and discussion
14	108/12/09 ~ 108/12/15	Papers reading, analyzing and discussion
15	108/12/16 ~ 108/12/22	Papers reading, analyzing and discussion
16	108/12/23 ~ 108/12/29	Final Report/Presentation/Group Discussion
17	108/12/30 ~ 109/01/05	Final Report/Presentation/Group Discussion
18	109/01/06 ~ 109/01/12	Final Report/Presentation/Group Discussion
Re	equirement	
Tea	aching Facility	Computer, Projector
Textbooks and Teaching Materials		The selected research papers, books and patents
F	References	The selected research papers, books and patents

Number of Assignment(s)	12 (Filled in by assignment instructor only)		
Grading Policy	 Attendance: 15.0 % ◆ Mark of Usual: 15.0 % ◆ Midterm Exam: 30.0 % ◆ Final Exam: % ◆ Other 〈FinalReport/Present. 〉: 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.		

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