

## Tamkang University Academic Year 110, 2nd Semester Course Syllabus

Course Title	SEMINAR (II)	Instructor	KANG SHUNG-WEN
Course Class	TEBXD1A DOCTORAL PROGRAM, DEPARTMENT OF MECHANICAL AND ELECTRO-MECHANICAL ENGINEERING, 1A	Details	◆ General Course ◆ Required ◆ One Semester
Relevance to SDGs	SDG6 Clean water and sanitation SDG7 Affordable and clean energy SDG11 Sustainable cities and communities SDG13 Climate action		
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			
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 competitiveness 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 is designed to help students learn how to study the idea, collection / compilation of relevant information, analysis and discussion of related research papers, books, and patents, decided to study methods, execution and problem solving.
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**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.

No.	Teaching Objectives	objective methods
1	To explore and learn the motivation and the innovative purpose of scientific and engineering research.	Affective

**The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment**

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ACD	125	Lecture, Discussion, Publication	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written), Activity Participation

**Course Schedule**

Week	Date	Course Contents	Note
1	111/02/21 ~ 111/02/25	Introduction	
2	111/02/28 ~ 111/03/04	Papers reading, analyzing and discussion	
3	111/03/07 ~ 111/03/11	Papers reading, analyzing and discussion	
4	111/03/14 ~ 111/03/18	Papers reading, analyzing and discussion	

5	111/03/21 ~ 111/03/25	Papers reading, analyzing and discussion	
6	111/03/28 ~ 111/04/01	Papers reading, analyzing and discussion	
7	111/04/04 ~ 111/04/08	Papers reading, analyzing and discussion	
8	111/04/11 ~ 111/04/15	Papers reading, analyzing and discussion	
9	111/04/18 ~ 111/04/22	Midterm Report	
10	111/04/25 ~ 111/04/29	Papers reading, analyzing and discussion	
11	111/05/02 ~ 111/05/06	Papers reading, analyzing and discussion	
12	111/05/09 ~ 111/05/13	Papers reading, analyzing and discussion	
13	111/05/16 ~ 111/05/20	Papers reading, analyzing and discussion	
14	111/05/23 ~ 111/05/27	Papers reading, analyzing and discussion	
15	111/05/30 ~ 111/06/03	Papers reading, analyzing and discussion	
16	111/06/06 ~ 111/06/10	Final Report/Presentation/Group Discussion	
17	111/06/13 ~ 111/06/17	Final Report/Presentation/Group Discussion	
18	111/06/20 ~ 111/06/24	教師彈性補充教學：Final Report/Presentation/Group Discussion	
Requirement			
Teaching Facility		Computer, Projector	
Textbooks and Teaching Materials		The selected research papers, books and patents	
References			
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 〈   〉：   %	

Note	<p>This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a>.</p> <p>※ <b>Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b></p>
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