

## Tamkang University Academic Year 113, 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	<ul style="list-style-type: none"> <li>◆ General Course</li> <li>◆ Required</li> <li>◆ One Semester</li> <li>◆ 1 Credits</li> </ul>
Relevance to SDGs	SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure		
<b>Departmental Aim of Education</b>			
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.			
<b>Subject Departmental core competences</b>			
A. Head: Knowledge of mechanical and electromechanical engineering.(ratio:50.00) B. Hand: Hands-on skills and practical realization.(ratio:10.00) C. Heart: Love of learning and innovation.(ratio:20.00) D. Eye: Vision of progress and improvements.(ratio:20.00)			
<b>Subject Schoolwide essential virtues</b>			
1. A global perspective. (ratio:15.00) 2. Information literacy. (ratio:30.00) 3. A vision for the future. (ratio:5.00) 4. Moral integrity. (ratio:5.00) 5. Independent thinking. (ratio:30.00) 6. A cheerful attitude and healthy lifestyle. (ratio:5.00) 7. A spirit of teamwork and dedication. (ratio:5.00) 8. A sense of aesthetic appreciation. (ratio:5.00)			

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.	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCD	12345678	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	113/09/09 ~ 113/09/15	Introduction	
2	113/09/16 ~ 113/09/22	Papers reading, analyzing and discussion	線上非同步教學 線上非同步教學 線上非同步教學 線上非同步教學

3	113/09/23 ~ 113/09/29	Papers reading, analyzing and discussion	線上非同步教學 線上非同步教學 線上非同步教學 線上非同步教學
4	113/09/30 ~ 113/10/06	Papers reading, analyzing and discussion	線上非同步教學 線上非同步教學 線上非同步教學 線上非同步教學
5	113/10/07 ~ 113/10/13	Papers reading, analyzing and discussion	線上非同步教學 線上非同步教學 線上非同步教學 線上非同步教學
6	113/10/14 ~ 113/10/20	Papers reading, analyzing and discussion	
7	113/10/21 ~ 113/10/27	Papers reading, analyzing and discussion	
8	113/10/28 ~ 113/11/03	Papers reading, analyzing and discussion	
9	113/11/04 ~ 113/11/10	Midterm Report	
10	113/11/11 ~ 113/11/17	Papers reading, analyzing and discussion	
11	113/11/18 ~ 113/11/24	Papers reading, analyzing and discussion	
12	113/11/25 ~ 113/12/01	Papers reading, analyzing and discussion	
13	113/12/02 ~ 113/12/08	Papers reading, analyzing and discussion	
14	113/12/09 ~ 113/12/15	Papers reading, analyzing and discussion	
15	113/12/16 ~ 113/12/22	Papers reading, analyzing and discussion	
16	113/12/23 ~ 113/12/29	Final Report/Presentation/Group Discussion	
17	113/12/30 ~ 114/01/05	Final Report/Presentation/Group Discussion	
18	114/01/06 ~ 114/01/12	教師彈性補充教學： Final Report/Presentation/Group Discussion	
Key capabilities			
Interdisciplinary			
Distinctive teaching			

Course Content	Sustainability issue
Requirement	
Textbooks and Teaching Materials	Self-made teaching materials:Presentations, Handouts Using teaching materials from other writers:Presentations
References	
Grading Policy	<p>◆ Attendance : 15.0 %   ◆ Mark of Usual : 15.0 %   ◆ Midterm Exam : 30.0 %</p> <p>◆ Final Exam : 40.0 %</p> <p>◆ Other ( ) : %</p>
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>