## Tamkang University Academic Year 114, 1st Semester Course Syllabus

Course Title	SEMINAR (I)	Instructor	JUANG, CHIA-WEI
Course Class	TEBXD1A  DOCTORAL PROGRAM, DEPARTMENT OF  MECHANICAL AND ELECTRO-MECHANICAL  ENGINEERING, 1A	Details	<ul><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		

## 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: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)

## Subject Schoolwide essential virtues

- 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)

In	Course troduction	compil	ation of relevant inform , books, and patents, de	students learn how to study the idea, co ation, analysis and discussion of related r cided to study methods, execution and p	esearch		
doı I.	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.						
	mo Psychomotor	rals, attitu	ude, conviction, values, e is upon the study of the	kinds of knowledge in the course's appea etc. course's physical activity and technical	ii,		
No.		Teaching Objectives obj		objective methods			
1	•	e and learn the motivation and the innovative purpose of Cognitive and engineering research.					
	The	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment		
No.	Core Compe	etences	Essential Virtues	Teaching Methods	Assessment		
1	ABCD		12345678	Discussion	Report(including oral and written)		
				Course Schedule			
Weel	Date		Cou	rse Contents	Note		
1	114/09/15 ~ 114/09/21	Introduction					
2	114/09/22 ~ 114/09/28	Papers reading, analyzing and discussion					
3	114/09/29 ~ 114/10/05	Papers reading, analyzing and discussion					
4	114/10/06 ~ 114/10/12	Papers reading, analyzing and discussion					

114/10/13 ~

114/10/19 114/10/20~

114/10/26

Papers reading, analyzing and discussion

Papers reading, analyzing and discussion

7	114/10/27 ~ 114/11/02	Papers reading, analyzing and discussion			
8	114/11/03 ~ 114/11/09	Papers reading, analyzing and discussion			
9	114/11/10 ~ 114/11/16	Midterm Report			
10	114/11/17 ~ 114/11/23	Papers reading, analyzing and discussion			
11	114/11/24 ~ 114/11/30	Papers reading, analyzing and discussion			
12	114/12/01 ~ 114/12/07	Papers reading, analyzing and discussion			
13	114/12/08 ~ 114/12/14	Papers reading, analyzing and discussion			
14	114/12/15 ~ 114/12/21	Papers reading, analyzing and discussion			
15	114/12/22 ~ 114/12/28	Papers reading, analyzing and discussion			
16	114/12/29 ~ 115/01/04	Final Report			
17	115/01/05 ~ 115/01/11	Final Report			
18	115/01/12 ~ 115/01/18	Final Report			
Key capabilities					
Inte	er disciplinary				
Distinctive teaching					
Course Content		Logical Thinking			
Requirement					
Textbooks and Teaching Materials		Self-made teaching materials:Handouts			

References				
Grading Policy	<ul> <li>◆ Attendance: 20.0 % ◆ Mark of Usual: % ◆ Midterm Exam: 40.0 %</li> <li>◆ Final Exam: 40.0 %</li> <li>◆ Other ⟨ ⟩ : %</li> </ul>			
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="https://web2.ais.tku.edu.tw/csp">https://web2.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> .  **"Adhere to the concept of intellectual property rights" and "Do not illegally photocopy, download, or distribute." Using original textbooks is advised. It is a crime to improperly photocopy others' publications.			

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