Tamkang University Academic Year 112, 1st Semester Course Syllabus

Course Title	SEMINAR (III)	Instructor	WU, CHYAN-CHYI
Course Class	TEBXD2A DOCTORAL PROGRAM, DEPARTMENT OF MECHANICAL AND ELECTRO-MECHANICAL ENGINEERING, 2A	Details	General CourseRequiredOne Semester
Relevance to SDGs	SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure SDG10 Reducing inequalities		

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)

	Course croduction	collect/ the pro	organize the related in blem solving process, a	ents learn how to think up an idea for re formation, decide on a research metho analyze data and write up/publish resul ssing the related research papers, book	d, execute ts by	
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2 do.	expertise and research and The Core Compe	d ethical s	ences of teaching objectives Essential Virtues 123458	Teaching Methods Lecture, Discussion, Practicum	Assessment Discussion(including classroom and online), Report(including oral and written) Discussion(including classroom and online), Report(including oral and	

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1	112/09/11 ~ 112/09/17	Introduction		
2	112/09/18 ~ 112/09/24	Papers reading, analyzing and discussion		
3	112/09/25 ~ 112/10/01	Papers reading, analyzing and discussion		
4	112/10/02 ~ 112/10/08	Papers reading, analyzing and discussion		
5	112/10/09 ~ 112/10/15	Papers reading, analyzing and discussion		
6	112/10/16 ~ 112/10/22	Papers reading, analyzing and discussion		
7	112/10/23 ~ 112/10/29	Papers reading, analyzing and discussion		
8	112/10/30 ~ 112/11/05	Papers reading, analyzing and discussion		
9	112/11/06 ~ 112/11/12	Midterm report		
10	112/11/13 ~ 112/11/19	Papers reading, analyzing and discussion		
11	112/11/20 ~ 112/11/26	Papers reading, analyzing and discussion		
12	112/11/27 ~ 112/12/03	Papers reading, analyzing and discussion		
13	112/12/04 ~ 112/12/10	Papers reading, analyzing and discussion		
14	112/12/11 ~ 112/12/17	Papers reading, analyzing and discussion		
15	112/12/18 ~ 112/12/24	Final Report/Presentation/Group Discussion		
16	112/12/25 ~ 112/12/31	Final Report/Presentation/Group Discussion		
17	113/01/01 ~ 113/01/07	Final Report/Presentation/Group Discussion		
18	113/01/08 ~ 113/01/14	Final Report/Presentation/Group Discussion		
Key capabilities		self-directed learning International mobility Information Technology Problem solving Interdisciplinary		
Inte	erdisciplinary	STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)		
Distinctive teaching		Special/Problem-Based(PBL) Courses		

Course Content	Intellectual Property (learning intellectual property) Logical Thinking
Requirement	
Textbooks and Teaching Materials	Self-made teaching materials:Handouts Name of teaching materials: Class note
References	
Grading Policy	 ◆ Attendance: 20.0 % ◆ Mark of Usual: % ◆ Midterm Exam: % ◆ Final Exam: % ◆ Other ⟨Presentation⟩: 80.0 %
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.

TEBXD2T1002 0A Page:4/4 2024/4/16 2:56:13