## Tamkang University Academic Year 110, 1st Semester Course Syllabus

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Course Title	SEMINAR (III)	Instructor	CHAO CHOUNG-LII				
Course Class	TEBXD2A DOCTORAL PROGRAM, DEPARTMENT OF MECHANICAL AND ELECTRO-MECHANICAL ENGINEERING, 2A	Details	<ul> <li>General Course</li> <li>Required</li> <li>One Semester</li> </ul>				
Relevance to SDGs	SDG8 Decent work and economic growth SDG9 Industry, Innovation, and Infrastructure						
Departmental Aim of Education							
science	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.						
standa	I. 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.						
cutting	<ul> <li>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.</li> </ul>						
	Subject Departmental core competences						
A. Head: Kı	nowledge of mechanical and electromechanical engineering.(rat	tio:60.00)					
C. Heart: Lo	C. Heart: Love of learning and innovation.(ratio:20.00)						
D. Eye: Visi	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)							

Iı	Course	collect, the pro	organize the related in oblem solving process, a	ents learn how to think up an idea for rese formation, decide on a research method, analyze data and write up/publish results asing the related research papers, books a	execute by				
	The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.								
				ng the cognitive, affective and psychomo	tor				
II.	the Affective : Em mo .Psychomotor	course's phasis up rals, attitu	veracity, conception, pr on the study of various ude, conviction, values, is upon the study of the	is kinds of knowledge in the cognition of rocedures, outcomes, etc. kinds of knowledge in the course's appea etc. e course's physical activity and technical	al,				
No.		Teaching Objectives objective methods							
1		Think up an idea to research, write a research proposal and Cognitive collect/organize the related information.							
2	To decide or process	o decide on a research method, execute the problem solving Cognitive							
3	To analyze c	Fo analyze data and write up/publish results Cognitive							
4	To explore and learn the motivation of scientific and engineering Cognitive research								
The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment									
No.	Core Compe	etences	Essential Virtues	Teaching Methods	Assessment				
1	A		12	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)				
2	AC		25	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	AD		25	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)	
	1	1		Course Schedule		
Week	Date	Course Contents Note				
1	110/09/22 ~ 110/09/28	Introduction				
2	110/09/29~ 110/10/05	Papers reading, analyzing and discussion				
3	110/10/06~ 110/10/12	Papers reading, analyzing and discussion				
4	110/10/13~ 110/10/19	Papers reading, analyzing and discussion				
5	110/10/20~ 110/10/26	Papers reading, analyzing and discussion				
6	110/10/27~ 110/11/02	Papers reading, analyzing and discussion				
7	110/11/03~ 110/11/09	Papers reading, analyzing and discussion				
8	110/11/10~ 110/11/16	Papers reading, analyzing and discussion				
9	110/11/17~ 110/11/23	Papers reading, analyzing and discussion				
10	110/11/24~ 110/11/30	Midterm Report				
11	110/12/01~ 110/12/07	Papers reading, analyzing and discussion				
12	110/12/08~ 110/12/14	Papers reading, analyzing and discussion				
13	110/12/15~ 110/12/21	Papers reading, analyzing and discussion				
14	110/12/22 ~ 110/12/28	Papers reading, analyzing and discussion				
15	110/12/29~ 111/01/04	Papers reading, analyzing and discussion				
16	111/01/05~ 111/01/11	Final Report/Presentation/Group Discussion				
17	111/01/12~ 111/01/18	Final R	eport/Presentation,	/Group Discussion		
18	111/01/19~ 111/01/25	Final Report/Presentation/Group Discussion				
Re	quirement					

Teaching Facility	Computer, Projector				
Textbooks and Teaching Materials	The selected research papers, books and patents				
References	The selected research papers, books and patents				
Number of Assignment(s)	12 (Filled in by assignment instructor only)				
Grading Policy	<ul> <li>Attendance: 15.0 % ◆ Mark of Usual: 15.0 % ◆ Midterm Exam: 30.0 %</li> <li>Final Exam: %</li> <li>Other 〈FinalReport/Present. 〉: 40.0 %</li> </ul>				
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <u>http://info.ais.tku.edu.tw/csp</u> or through the link of Course Syllabus Upload posted on the         ote       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> .         * Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.				
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