

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

Course Title	SEMINAR	Instructor	HSIEN-WEI TSENG
Course Class	TETEB4A DIVISION OF ELECTRICAL AND COMMUNICATION ENGINEERING, DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING,	Details	◆ General Course ◆ Required ◆ One Semester ◆ 1 Credits
Relevance to SDGs	4A SDG4 Quality education		
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 . Educate students to have knowledge in mathematics, science and engineering to solve electrical engineering related problems. II. Educate the student as a team work electrical engineer to be independently complete the assigned tasks. III. Educate students to realize the trend variations of electrical engineering industry and copy with the challenges of modern diversified professor careers.			
Subject Departmental core competences			
A. Have the ability to apply mathematical tools along with scientific methods to solve electrical engineering related problems.(ratio:10.00) B. Have the ability to design and execute electrical engineering experiments, analyze and interpret data.(ratio:10.00) C. Have the necessary knowledge, skills and the ability to operate modern tools to execute the practical electrical engineering issues.(ratio:10.00) D. Have the ability to design electrical engineering systems, components, or manufacturing processes.(ratio:10.00) E. Have the abilities to manage electrical engineering projects, to skillfully communicate, to integrate various fields and cooperate team members.(ratio:20.00) F. Have the ability to discover, analyze, apply research results and cope with the issues resulting from the integration of electrical engineering complex problems.(ratio:20.00) G. Have the ability to realize the world affairs, to understand how engineering technology effects on the environment, society and the globe and to acknowledge the lifelong learning.(ratio:10.00) H. Have the ability to understand and apply professional ethics, and have correct awareness on the social responsibility and the intellectual property, and respect diversified perspectives.(ratio:10.00)			

Subject Schoolwide essential virtues		
<div>1. A global perspective. (ratio:5.00)</div> <div>2. Information literacy. (ratio:30.00)</div> <div>3. A vision for the future. (ratio:10.00)</div> <div>4. Moral integrity. (ratio:10.00)</div> <div>5. Independent thinking. (ratio:30.00)</div> <div>6. A cheerful attitude and healthy lifestyle. (ratio:5.00)</div> <div>7. A spirit of teamwork and dedication. (ratio:5.00)</div> <div>8. A sense of aesthetic appreciation. (ratio:5.00)</div>		
Course Introduction	This course is conducted in the format of seminar discussions. Students will review academic literature in the fields of electrical engineering and electronic communications, and select research papers for oral presentations and group discussions. By analyzing recent research findings and sharing insights, students can learn from the strengths of others, enhance critical thinking and communication skills, and acquire valuable references for future research and projects.	
<div>The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.</div> <div>Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.</div> <div>I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.</div> <div>II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.</div> <div>III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.</div>		
No.	Teaching Objectives	objective methods
1	<div>1.Learn skills of information collection and literature review.</div> <div>2.Learn preparation and organization of oral presentations.</div> <div>3.Develop oral presentation and professional communication skills.</div> <div>4.Practice questioning and active participation in discussions.</div>	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment				
No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCDEFGH	12345678	Lecture, Discussion, Publication	Discussion(including classroom and online), Report(including oral and written)
Course Schedule				
Week	Date	Course Contents	Note	
1	114/09/15 ~ 114/09/21	課程介紹		
2	114/09/22 ~ 114/09/28	文獻蒐集方法		
3	114/09/29 ~ 114/10/05	文獻閱讀與整理		
4	114/10/06 ~ 114/10/12	引用與寫作規範		
5	114/10/13 ~ 114/10/19	學生依序上台講解論文並討論		
6	114/10/20 ~ 114/10/26	學生依序上台講解論文並討論		
7	114/10/27 ~ 114/11/02	學生依序上台講解論文並討論		
8	114/11/03 ~ 114/11/09	學生依序上台講解論文並討論		
9	114/11/10 ~ 114/11/16	期中多元評量週		
10	114/11/17 ~ 114/11/23	學生依序上台講解論文並討論		
11	114/11/24 ~ 114/11/30	學生依序上台講解論文並討論		
12	114/12/01 ~ 114/12/07	學生依序上台講解論文並討論		
13	114/12/08 ~ 114/12/14	學生依序上台講解論文並討論		
14	114/12/15 ~ 114/12/21	學生依序上台講解論文並討論		
15	114/12/22 ~ 114/12/28	學生依序上台講解論文並討論		
16	114/12/29 ~ 115/01/04	學生依序上台講解論文並討論		
17	115/01/05 ~ 115/01/11	期末多元評量週/教師彈性教學週		
18	115/01/12 ~ 115/01/18	教師彈性教學週		
Key capabilities		self-directed learning Information Technology Problem solving Interdisciplinary		

Interdisciplinary	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	Logical Thinking
Requirement	<p>生成式 AI 倫理聲明</p> <p>本課程依據透明和負責任的原則，鼓勵學生利用 AI 進行協作和互學，以提升課程成果。</p> <p>本課程採取以下措施：</p> <ol style="list-style-type: none"> <li>1.有條件開放，請註明學生如何使用生成式 AI 於課程成果中。</li> <li>2.學生應在課堂作業或報告中的「標題頁註腳」或「引用文獻後」簡要說明他們如何使用生成式 AI，例如進行議題發想、文潤飾或或結參見考等。如果經查核發現使用生成式 AI 但未在作業或報告中標明，教師、學校或相關單位有權重新評分或不予計分。</li> <li>3.此外，本課程的授課教材或學習資料如有引用生成式 AI 內容，教師也會在投影片或口頭標註。修讀本課程的學生在選課時視為同意以上倫理聲明。</li> </ol>
Textbooks and Teaching Materials	Using teaching materials from other writers:相關期刊(SCI, EI)
References	
Grading Policy	<p>◆ Attendance： 20.0 %    ◆ Mark of Usual：20.0 %    ◆ Midterm Exam： %</p> <p>◆ Final Exam： %</p> <p>◆ Other〈口試報告、書面報告、提問與回答〉：60.0 %</p>
Note	<p>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>.</p> <p>※"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.</p>