## Tamkang University Academic Year 113, 2nd Semester Course Syllabus

Course Title	ELECTRONICS	Instructor	MA, SU-SHENG				
Course Class	TENXB2B DEPARTMENT OF AEROSPACE ENGINEERING, 2B	Details	<ul> <li>General Course</li> <li>Required</li> <li>One Semester</li> <li>2 Credits</li> </ul>				
Relevance to SDGs	SDG7 Affordable and clean energy SDG9 Industry, Innovation, and Infrastructure SDGs						
	Departmental Aim of Education						
I. Apply scientific knowledge and engineering techniques to analyze and solve fundamental aerospace engineering problem.							
analyze	e experimental data.						
III. Mainta	III. Maintain the spirit of independent thinking, self-elevate, and continuous learning.						
IV. Upholo	the responsible attitude of work ethics and team work.						
V. Will have access to information, using basic knowledge, diversification, and better ability to adapt to circumstances.							
Subject Departmental core competences							
A. With bas	sic aerospace engineering expertise.(ratio:20.00)						
B. Able to s	B. Able to solve basic engineering problems via fundamental theory.(ratio:30.00)						
C. Capable	C. Capable of lifelong learning and research capacity for further studies.(ratio:20.00)						
D. To work	D. To work with a sense of mission and responsibility.(ratio:10.00)						
E. Have tea	E. Have team spirit and the ability to communicate with each other.(ratio:10.00)						
F. With an international perspective, have the ability to connect with the world.(ratio:5.00)							
G. Taking fi skills.(rat	G. Taking full advantage of information and utilization of computer-assisted problem solving skills.(ratio:5.00)						
Subject Schoolwide essential virtues							
1. A global perspective. (ratio:15.00)							
2. Information literacy. (ratio:15.00)							
3. A vision for the future. (ratio:20.00)							
4. Moral ir	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 o	of teamwo	ork and dedication. (rati	o:5.00)		
8. A sense of aesthetic appreciation. (ratio:5.00)						
Int	Course Introduction Systems.					
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		objective methods			
1	. Individual thinking and team work Cognitive		Cognitive			
	The	corresponc	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment	
No.	Core Compe	tences	Essential Virtues	Teaching Methods	Assessment	
1	ABCDEFG		12345678	Lecture	Discussion(including classroom and online), Activity Participation	
Course Schedule						
Week	Date		Cou	rse Contents	Note	
1	114/02/17 ~ 114/02/23	Introduction to Electronic Theory and Applications				
2	114/02/24 ~ 114/03/02	14/02/24 ~     Introduction to Electronic Theory and Applications       14/03/02     Introduction to Electronic Theory and Applications				

3	114/03/03~ 114/03/09	Basic Circuit Analysis 1		
4	114/03/10~ 114/03/16	Basic Circuit Analysis 2		
5	114/03/17 ~ 114/03/23	Basic Circuit Analysis 3		
6	114/03/24 ~ 114/03/30	Four types of Amplifier 1		
7	114/03/31~ 114/04/06	Four types of Amplifier 2		
8	114/04/07 ~ 114/04/13	Team work test		
9	114/04/14 ~ 114/04/20	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)		
10	114/04/21~ 114/04/27	Four types of Amplifier 3		
11	114/04/28~ 114/05/04	Four types of Amplifier 4		
12	114/05/05 ~ 114/05/11	Semiconductors 1		
13	114/05/12 ~ 114/05/18	Semiconductors 2		
14	114/05/19~ 114/05/25	Semiconductors 3		
15	114/05/26~ 114/06/01	Semiconductors 4		
16	114/06/02 ~ 114/06/08	Team work test		
17	114/06/09~ 114/06/15	Final Exam/Final Assessment Week (teachers can adjust the week as needed)		
18	114/06/16~ 114/06/22	Flexible Teaching Week: Generally, no in-person classes; teachers may arrange teaching activities or final assessments, among other options.		
Key capabilities		Problem solving		
Interdisciplinary		In addition to teaching content of the teacher's professional field, integrate other subjects or invite experts and scholars in other fields to share knowledge or teaching		
Distinctive teaching				

	Logical Thinking				
Course Content					
Requirement					
Textbooks and Teaching Materials	Self-made teaching materials:Presentations, Handouts				
References					
Grading Policy	<ul> <li>♦ Attendance: 20.0 %</li> <li>♦ Mark of Usual: %</li> <li>♦ Midterm Exam: 30.0 %</li> <li>♦ Other &lt; &gt;: %</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 home page of TKU Office of Academic Affairs at <u>http://www.acad.tku.edu.tw/CS/main.php</u> . <b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime</b> to improperly photocopy others' publications.				
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