### Tamkang University Academic Year 114, 2nd Semester Course Syllabus

Course Title	PLANNING OF INTELLIGENT LIVING STYLE IN GREEN BUILDING ENVIRONMENT	Instructor	JONG-DAR YAU
Course Class	TNUZB0B GLOBAL TECHNOLOGY REVOLUTION, 0B	Details	<ul><li>General Course</li><li>Required</li><li>One Semester</li><li>2 Credits</li></ul>
Relevance to SDGs	SDG3 Good health and well-being for people SDG4 Quality education SDG11 Sustainable cities and communities SDG13 Climate action		

#### Departmental Aim of Education

Students will understand recent development of modern science and technology and its impact on human society and global environment. Through the design of course students will also be familiar with broadly-based fundamental technical knowledge and improve.

#### Subject Schoolwide essential virtues

- 1. A global perspective. (ratio:20.00)
- 2. Information literacy. (ratio:10.00)
- 3. A vision for the future. (ratio:20.00)
- 4. Moral integrity. (ratio:10.00)
- 5. Independent thinking. (ratio:10.00)
- 6. A cheerful attitude and healthy lifestyle. (ratio:10.00)
- 7. A spirit of teamwork and dedication. (ratio:10.00)
- 8. A sense of aesthetic appreciation. (ratio:10.00)

## Course Introduction

This course introduces various aspects of Smart Green Living, combining zero-net green living with environmental protection concepts to enhance quality of life while reducing negative environmental impacts. Based on the Zero-Net Green Living concept, the course covers Smart Buildings, Smart Transportation, Smart Energy, Smart Recycling and Circular Economy, Smart Industries, Energy Saving and Carbon Reduction, and Net Zero Carbon Emissions. Students will learn to use technological means to achieve sustainable development and explore various practical application cases.

# 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.

L	manipulation.						
No.			objective methods				
	Understand t Living. Explore the a	pplicatio	Cognitive				
	environmental protection and sustainable development.  Analyze practical cases and successful experiences of Smart Green  Living.  Cultivate students' innovative thinking and practical abilities in the						
	field of Smart Green Living.						
	The o	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	ethods, and assessment		
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment		
1			12345678	Lecture, Discussion	Testing, Discussion(including classroom and online), Report(including oral and written)		
				Course Schedule			
Week	Date		Course Contents		Note		
1	115/02/23 ~ 115/03/01	課程介紹與智慧淨零綠生活概述 / Introduction of Smart Zer-Net Green Living					
2	115/03/02 ~ 115/03/08	淨零綠色生活行動計畫 / Action and Policy of Zero-Net Green Living					
3	115/03/09 ~ 115/03/15	淨零減碳及循環經濟 / Zer-Net and Circular Economics (Speech Lecture)					
4	115/03/16 ~ 115/03/22	2050 淨零排放策略解方 / 2050 Zero-Net Strategy and Solutions					
5	115/03/23 ~ 115/03/29	肖意恆峽父週 / Smart Low-Carbon Transportation &					

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6	115/03/30 ~ 115/04/05	教學觀模日/Teaching Observation Day		
7	115/04/06 ~ 115/04/12	智慧建築 / Smart Buildings		
8	115/04/13 ~ 115/04/19	智慧能源 / Smart Energy		
9	115/04/20 ~ 115/04/26	Midterm Exam Week		
10	115/04/27 ~ 115/05/03	智能電網 / Smart Grids		
11	115/05/04 ~ 115/05/10	智慧回收與淨零循環經濟 / Smart Recycling & Zero-Net Circular Economy		
12	115/05/11 ~ 115/05/17	智慧城市的概念與發展 / Concepts and Development of Smart Cities		
13	115/05/18 ~ 115/05/24	工業物聯網 / Industrial Internet of Things (IIoT)		
14	115/05/25 ~ 115/05/31	節能技術與措施 / Energy-saving Technologies and Measures		
15	115/06/01 ~ 115/06/07	碳排放監測與管理 / Carbon Emission Monitoring and Management		
16	115/06/08 ~ 115/06/14	Final Week of Diverse Assessments		
17	115/06/15 ~ 115/06/21	Final Week of Diverse Assessments/Flexible Teaching Week for Teachers		
18	115/06/22 ~ 115/06/28	Flexible Teaching Week for Teachers		
Key	/ capabilities	self-directed learning Problem solving		
Interdisciplinary		STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)		
Distinctive teaching		Industry-university collaboration courses  Special/Problem-Based(PBL) Courses		
Course Content		Green Energy		

Requirement	Late submission of assignment = Grade * 0.6, if submitted more than two weeks (14 days) late, the grade for that assignment will not be counted.  Students must adhere to class regulations. If a student is absent five times or more, the attendance grade will be zero.  Approved leave slips must be submitted to the instructor within seven days after the leave date (if it falls on a holiday, it will be extended by one week). The leave slip must be presented in class for the instructor's signature. Unfortunately, late submissions won't be accepted.
	補交成績 = 成績*0.6·超過規定時間兩星期(14天)·該次成績不計課程進行方式:實體 修課者應遵守上課規定,曠課達5次(含)以上者, 出席率成績以零分計, 核准假單在請假日後7日內(逢假日,順延一週)·於課堂中將假單證明聯逕送任課教師完成簽點·逾 期不受理。
Textbooks and Teaching Materials	Self-made teaching materials:Presentations, Handouts, Videos
References	
Grading Policy	<ul> <li>◆ Attendance: 20.0 % ◆ Mark of Usual: 30.0 % ◆ Midterm Exam: 25.0 %</li> <li>◆ Final Exam: 25.0 %</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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