

Tamkang University Academic Year 114, 1st Semester Course Syllabus

Course Title	EXPLORING SUSTAINABILITY	Instructor	CHEN, DUEN-KAI
Course Class	TEIDB1A DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 1A	Details	◆ General Course ◆ Required ◆ One Semester ◆ 1 Credits
Relevance to SDGs	SDG7 Affordable and clean energy SDG9 Industry, Innovation, and Infrastructure SDG12 Responsible consumption and production SDG13 Climate action		
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 . Building an Knowledge Map for Exploring Sustainability. II. Guiding a Learning Process of Social Awareness, Social Participation, and Social Innovation. III. Learning the Methods of Exploring Sustainability Step by Step. IV. Become an Explorer of Sustainable Action.			
Subject Schoolwide essential virtues			
1. A global perspective. (ratio:20.00) 2. Information literacy. (ratio:5.00) 3. A vision for the future. (ratio:20.00) 4. Moral integrity. (ratio:5.00) 5. Independent thinking. (ratio:20.00) 6. A cheerful attitude and healthy lifestyle. (ratio:5.00) 7. A spirit of teamwork and dedication. (ratio:20.00) 8. A sense of aesthetic appreciation. (ratio:5.00)			

Course Introduction	To effectively address the SDGs, we need professionals and citizens who have the skills, knowledge, and mindsets to tackle the complex sustainable development challenges articulated by the SDGs through whichever career or life path they take. This course aims to equip students with the skills, knowledge, and mindsets mentioned above.			
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
1	This course aims to equip students with the skills, knowledge, and mindsets to tackle the complex sustainable development challenges articulated by the SDGs.			Cognitive
The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment				
No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		12345678	Lecture, Discussion, Practicum	Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written), Activity Participation
Course Schedule				
Week	Date	Course Contents		Note
1	114/09/15 ~ 114/09/21	Course overview		
2	114/09/22 ~ 114/09/28	What are SDGs? Background information and History (I)		
3	114/09/29 ~ 114/10/05	What are SDGs? Background information and History (II)		

4	114/10/06 ~ 114/10/12	Introduction to the course project	
5	114/10/13 ~ 114/10/19	Environmental Sustainability and Climate Change (I)	
6	114/10/20 ~ 114/10/26	Environmental Sustainability and Climate Change (II)	
7	114/10/27 ~ 114/11/02	Technology and Sustainability (I)	
8	114/11/03 ~ 114/11/09	Technology and Sustainability (II)	
9	114/11/10 ~ 114/11/16	Economic Sustainability and Circular Economy (I)	
10	114/11/17 ~ 114/11/23	Economic Sustainability and Circular Economy (II)	
11	114/11/24 ~ 114/11/30	Social Sustainability and Sustainable Communities (I)	
12	114/12/01 ~ 114/12/07	Social Sustainability and Sustainable Communities (II)	
13	114/12/08 ~ 114/12/14	Sustainable Resource Management (I)	
14	114/12/15 ~ 114/12/21	Sustainable Resource Management (II)	
15	114/12/22 ~ 114/12/28	Course project presentation	
16	114/12/29 ~ 115/01/04	Final Week of Diverse Assessments - Course project presentation	
17	115/01/05 ~ 115/01/11	Final Week of Diverse Assessments/Flexible Teaching Week for Teachers	
18	115/01/12 ~ 115/01/18	Flexible Teaching Week for Teachers	
Key capabilities		self-directed learning Social Participation Problem solving Interdisciplinary	
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		Project implementation course	
Course Content		Logical Thinking Environmental Safety Green Energy AI application Sustainability issue	

Requirement	Detailed information regarding assignments and the course project will be explained in class.
Textbooks and Teaching Materials	Self-made teaching materials:Presentations, Worksheets Using teaching materials from other writers:Presentations, Videos
References	
Grading Policy	<p>◆ Attendance : 20.0 % ◆ Mark of Usual : 50.0 % ◆ Midterm Exam : %</p> <p>◆ Final Exam : %</p> <p>◆ Other 〈Course project〉 : 30.0 %</p>
Note	<p>This syllabus may be uploaded at the website of Course Syllabus Management System at https://web2.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.</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>