



Course Syllabus

TU103 Life and Sustainability (2/2022)

Programs: BAS/BBA/BE Thammasat University
(Tha Prachan Campus)

1. Lecturers and Course Coordinator**

Course Coordinator: Assist Prof. Chol Bunnag (bchol@tu.ac.th)

Week	Morning section (Room 601, Faculty of Liberal Arts)	Afternoon section (Room 201, Thammasat Business School)
Module 1		
Week 1-5	Dr. Rick Levinthal (ricklev@hotmail.com)	Dr. Suparchoek Wangmanaopituk (suparchoek@tu.ac.th)
Module 2		
Week 6	Assoc. Prof. Dr. Supreede Rittironk (sdr@tu.ac.th)	Assoc. Prof. Dr. Supreede Rittironk (sdr@tu.ac.th)
Week 7	Assoc. Prof. Dr. Supreede Rittironk (sdr@tu.ac.th)	Assoc. Prof. Dr. Supreede Rittironk (sdr@tu.ac.th)
Week 8	Asst.Prof. Dr. Boonanan Natakun (boonanan@ap.tu.ac.th)	Asst.Prof. Dr. Boonanan Natakun (boonanan@ap.tu.ac.th)
Week 9	Aj. Hansa Srilertchaipanit (hansa@ap.tu.ac.th)	Aj. Hansa Srilertchaipanit (hansa@ap.tu.ac.th)
Week 10	Dr.Winyu Ardrugsa (Ardrugsa@ap.tu.ac.th)	Dr.Winyu Ardrugsa (Ardrugsa@ap.tu.ac.th)
Module 3		
Week 11-15	Dr. Nuttavikhom Phanthuwongpakdee (kaynp@tu.ac.th)	Dr. Shweta Sinha (shweta_s@tu.ac.th)

2. **Class Date and Time:** Room AM1-AM3 = Saturdays 9:00-12:00 and PM1-PM2 = Saturdays 13:00-16:00

3. Course Objective

This course provides an introduction to the importance of life-cycle systems perspectives in understanding major challenges and solutions to achieving more sustainable societies in this changing world. Students will learn about the relationship between mankind and the environment in the context of energy and resource use, consumption and development, and environmental constraints. Furthermore, an examination of social conflict and change from the life-cycle perspective will be used to develop an understanding of potential solution pathways for sustainable lifestyle modifications.

4. Expected Learning Outcomes

Morals and Ethics						Knowledge				Cognitive Skills				Interpersonal skills & responsibilities					Numerical, Communication and IT skills			
1	2	3	4	5	6	1	2	3	4	1	2	3	4	1	2	3	4	5	1	2	3	4
●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	○	x	x	x

ทักษะอื่น ๆ (Other skills)	ทัศนคติอื่น ๆ (Other attitudes)
S1: Systematic thinking	A1: Awareness for the public and awareness of the external impact that they may cause to society.
S2: Well-rounded thinking	A2: Seeing that sustainability is near and one of the main reasons is the behavior of students in everyday life.

5. Grading Criteria:

Module	Participation	Quiz / Exam	Group work	Total (100%)
M1 (Week 1- Week 5)	10%	15%	10%	35%
M2 (Week 6- Week 10)	25%	-	10%	35%
M3 (Week 11- Week 15)	-	20%	10%	30%

6. Reference Material:

Each module will provide reading material and worksheets. There is no text for the students to purchase.

7. Course plan:

Week	Date	Topic	Content
Module M1: Environmental Science (5 Weeks)			
1	14-Jan	Concept of life and sustainability	Course introduction. Various types of sustainability. World population. Project and homework assignment. <i>Participation (2.5 points)</i>
2	21-Jan	Science related to sustainability	Ozone depletion. Climate change and global connectivity. Energy production. <i>Participation (2.5 points) & Quiz (5 points)</i>
3	28-Jan	Personal consumption	Material life cycle (Story of stuff). Ecological footprint and carbon footprint. Consumption measurement and its environmental effect. <i>Participation (2.5 points)</i>
4	4-Feb	Environmental protection engagement	Zero-waste life. Green consumerism. Change and inspiration. <i>Participation (2.5 points)</i>
5	11-Feb	Project Module 1: Presentation	Project presentation and module reflection. <i>Final Quiz (10 points)</i>
Module M2: Built Environment and Sustainability (5 Weeks)			
6	18-Feb	Built Environment: definition and Sustainability concept, Utopia	Sustainability in Built environment and Utopia concept <i>Participation (5 points)</i>
7	25-Feb	Built Environment: Sustainable Architecture case studies and Green building criteria	Learning from various sustainable architectural projects <i>Participation (5 points)</i>
-	4-Mar	No class (midterm exam week)	
8	11-Mar	Built Environment: Resilient city.	Sustainable City, Resilient & Adaptive concept, Assign Project <i>Participation (5 points)</i>
9	18-Mar	Built Environment: Community and participation	Sustainable Community and working strategies <i>Participation (5 points)</i>
10	25-Mar	Built Environment: Sustainable Architecture	Sustainable Architecture and design strategies <i>Participation (5 points) & Project due (10 points)</i>
Module M3: Economics, Social Science and Environment for Sustainability (5 Weeks)			
11	1-Apr	Sustainable Development and the SDGs	Revisit the concepts of sustainable development; getting to know the Sustainable Development Goals (SDGs); why SDGs are important to you?; Critical development issues in the SDGs. <i>In-class group work (5 points)*</i>
12	8-Apr	History of (Un)sustainable Development	Brief history of agrarian capitalism; Mercantilism; Colonization; Industrial revolution; Green revolution; Globalization <i>In-class group work (5 points)*</i>
-	15-Apr	No class (Songkran holiday)	
13	22-Apr	Sustainability and the Business Sector	Business and sustainable development; Corporate Social Responsibility (CSR); Environment-Social-Governance (ESG); green washing; How to integrate SDGs into business practices. <i>Quiz (10 points) – at the beginning of the class.</i>

14	29-Apr	Economic Aspect of Sustainable Development	Polluters pay principle; Payment for ecosystem service; Tax policy; Green society, and sufficient economy principle <i>In-class group work (5 points)*</i>
15	6-May	Seven-year of Actions to achieve the SDGs	Review what has been done in the past seven years to achieve the SDGs in Thailand; visioning the sustainable future and design how to achieve the SDGs. <i>Final Quiz (10 points) – at the end of the class.</i>

* Module 3 only considers 2 out of 3 in-class group work with the best scores.

8. Class rules:

- Throughout the semester, all classes are conducted in class. However, students are expected to join the MS Teams where class information and materials will be provided.
- Group will be assigned on a random basis.
- Quizzes will be instructed and conducted by lecturers in each module. There will be no make-up quizzes. Absentee will be given a score of zero, except with valid reason(s). In this manner, the student must inform the instructor before the class via e-mail or, for medical reason(s), provide a medical certificate as soon as possible.
- If the student experience technical difficulty/ies while taking quiz, the student must inform the lecturer immediately.