

GENERAL EDUCATION, KMITL

COURSE SYLLABUS

Course Code	96643046	Course Title	Raising of Sustainable Awareness				
Total Credits		Semester / Year of Study		Section		Date- Time	
Course Description (English)	Basic knowledge about ecological system and environment; Environmental issues and environmental pollution; Basic principles of the Sustainable Development Goals: 17 SDGs; Problem analysis and finding the solutions by SDG principles for raising of sustainable awareness; Case studies.						
Course Coordinator	Asst. Prof. Dr. Chodchanok Attaphong and Assoc. Prof. Dr. Ronnachai Tiyarattanachai						
Course Instructors	Asst. Prof. Dr. Chodchanok Attaphong and Assoc. Prof. Dr. Ronnachai Tiyarattanachai						
Teaching Assistant (if any)							
Counselling Schedule				Teaching Language	<input type="checkbox"/> Thai <input checked="" type="checkbox"/> English <input type="checkbox"/> Others, please specify.....		
Website or Online Teaching Method (if any)							

Course Learning Outcome

1. To enable students to understand the current global environment.
2. To equip students with effective communication skills and the ability to share and disseminate information concretely.
3. To guide students in developing approaches or methods for creating knowledge and innovations that contribute to sustainable environmental conservation.
4. To provide students with the skills for lifelong learning and environmental awareness in all aspects of life and work sustainably.
5. To raise a sustainable awareness of social responsibility and the commitment to contribute positively to society.
6. To foster a sense of pride and belonging in the identity of being part of King Mongkut's Institute of Technology Ladkrabang.

General Education Learning Outcome: GE-LO	
GE-LO	Value
<input checked="" type="checkbox"/> GE-LO-1 Analytical and Critical Thinking	2
<input checked="" type="checkbox"/> GE-LO-2 Complex Problem Solving	2
<input checked="" type="checkbox"/> GE-LO-3 Creativity	2
<input checked="" type="checkbox"/> GE-LO-4 Interpersonal Skills	2
<input checked="" type="checkbox"/> GE-LO-5 Integrity and Perseverance	3
<input type="checkbox"/> GE-LO-6 Active Learning and Learning Strategies	
<input type="checkbox"/> GE-LO-7 Resilience, Stress Tolerance and Flexibility	
<input checked="" type="checkbox"/> GE-LO-8 Leadership and Social Influence	1
<input checked="" type="checkbox"/> GE-LO-9 Communication	3
<input type="checkbox"/> GE-LO-10 Entrepreneurship and Startup	
<input type="checkbox"/> GE-LO-11 Digital Quotient Literacy and Digital Media Production	
Total Value	<u>15</u>

Teaching Plan and Evaluation Plan

Week	Topic/Sub-topic	Activities	Note
1	Class and course introduction - Introduction - General Principles	Lecture	
2	Environmental components – Biosphere	Lecture	Assignment 1
3	Environmental components – Hydrosphere	Lecture	Assignment 2
4	Environmental components –Atmosphere and Geosphere	Lecture	Assignment 3
5	Natural and Human Activity Impacts/ Pollutions	Lecture	Assignment 4
6	Solid and Waste Management	Lecture	Assignment 5
7	Sustainability/ Sustainable Development Goals (SDGs)	Lecture	Assignment 6
8	Sustainability/ Sustainable Development Goals (SDGs)	Lecture	Assignment 7
Midterm			
9	Project Progress 1	Lecture/ Activities	Presentation
10	Problem-based learning	Lecture/ Activities	Class participation
11	Case study	Lecture/ Activities	Class participation
12	Project Progress 2	Lecture/ Activities	Presentation
13	Presentation Preparation	Lecture/ Activities	Class participation
14	Final Presentation	Presentation	Presentation
15	Class Summary	Activities	Class participation
Final			

Evaluation Plan

Assessment Activities	Value	Score	Week of Evaluation	Notes
1. Punctuality and attendance in class	2	8	Throughout the semester	Punctuality in Class Attendance <ul style="list-style-type: none"> Students must attend class on time (before 9:00 AM or 1:00 PM). Arriving more than 1 hour late is considered absent. Students who are absent more than 3 times will receive a grade of F. Exceptions are made for illness with a valid medical certificate or approved participation in institutional activities with official documentation.
2. Volunteer activity/ Classroom participation	1	4	Throughout the semester	Activities/ volunteer work/ class participation/ or personal cup
3. Assignments	5	20	Week 2-8 and 10	Failure to submit work, submitting blank papers, or plagiarizing will result in a score of 0.
4. Projects / Activities	4	16	Week 9-13	<ul style="list-style-type: none"> The project must be completed as a group. Failure to submit the project/activity or lack of group participation will result in a grade of F.
5. Project presentation	3	12	Week 14	Presentation and summary can be delivered through in-class presentations, video clips, compiled portfolios, summary brochures, or other media formats. <ul style="list-style-type: none"> Conducted as a group. The presentation must not exceed 10 minutes. Failure to participate in group work or lack of assigned responsibilities within the group will result in a score of 0.

Evaluation criteria

<input type="checkbox"/> Group-based								
<input checked="" type="checkbox"/> Standard-based								
Grade	A	B+	B	C+	C	D+	D	F
Score (60 points)	57-60	49-56.9	41-48.9	34-40.9	27-33.9	21-26.9	15-20.9	0-14.9
<input type="checkbox"/> Satisfactory/Unsatisfactory (S/U)								
Grade	S				U			
Score (60 points)	30-60				0-29.9			

Scoring criteria according to Assessment Plan

Assessment Activities	Learning Outcomes	Value	Level			
			4 (Excellent)	3 (Good)	2 (Fair)	1 (Poor)
1. Punctuality and attendance in class	GE-LO-5	2	Attend class and on time at least 11 times	Attend class and on time 8-10 times	Attend class 8-10 times and on time 6-7 times	Attend class 8-10 times and on time less than 5 times
2. Volunteer activity/ Classroom participation	GE-LO-8	1	Participate in class at least 11 times	Participate in class 8-10 times	Participate in class 6-7 times	Participate in class less than 6 times
3. Assignments	GE-LO-5	1	Submit at least 6 assignments.	Submit 4-5 assignments.	Submit 2-3 assignments.	Submit less than 2 assignments.
	GE-LO-1	2	Identify/ explain principles of the environmental or sustainable issues and it is at least 80% accurate.	Identify/ explain principles of the environmental or sustainable issues and it is 65-79% accurate.	Identify/ explain principles of the environmental or sustainable issues and it is 50-64% accurate.	Identify/ explain principles of the environmental or sustainable issues and it is less than 50% accurate.
	GE-LO-2	2	Provide the solutions for the problems of the environmental or sustainable issues and it is at least 80% accurate.	Provide the solutions for the problems of the environmental or sustainable issues and it is 65-79% accurate.	Provide the solutions for the problems of the environmental or sustainable issues and it is 50-64% accurate.	Provide the solutions for the problems of the environmental or sustainable issues and it is less than 50% accurate.
4. Projects / Activities	GE-LO-3	2	Apply knowledge practically, think creatively and innovatively, and build upon ideas for further development.	Apply knowledge practically, think creatively and innovatively, but it is difficult to be developed.	Apply knowledge practically, but <u>not creatively</u>	<u>Not</u> applicable for practical application.
	GE-LO-4	2	Able to work collaboratively with others, propose the ideas, and listens to other opinions.	Able to work collaboratively with others, propose the ideas, <u>not</u> listens to other opinions.	Able to work collaboratively with others, but <u>not</u> propose the ideas, and <u>not</u> listens to other opinions.	<u>Not at all.</u>
5. Project presentation	GE-LO-9	2	Demonstrates effective communication skills, uses appropriate communication methods, and can specify details of the activity/project created.	Demonstrates effective communication skills, uses appropriate communication methods, but <u>cannot</u> specify details of the activity/project created.	Demonstrates communication skills, but <u>not</u> uses appropriate communication methods and <u>cannot</u> specify details of the activity/project created.	<u>Not at all.</u>

Assessment Activities	Learning Outcomes	Value	Level			
			4 (Excellent)	3 (Good)	2 (Fair)	1 (Poor)
	GE-LO-9	1	Manage presentation time effectively and appropriately.	Manage presentation time punctually (on time).	Manage presentation time ineffectively.	Lack of time management.