Course Syllabus (Academic Year 2021)

School of Interdisciplinary Studies, Kanchanaburi Campus, Mahidol University

1. **Course No. and Title** : KAED450 Environmental Laws
   Credit (study hours) : 3(3-0-6)
2. **Program Name** :Bachelor of Engineering in Environmental Engineering and Disaster Management
3. **Course Module** : Major Required Course (Environmental Engineering).
   Pre/co-requisite : ...No.
4. **Class Semester** :/ 1st Semester☐ 2nd Semester, Academic Year 2021
5. **Class Schedule & Venue**: Monday 9:00 AM – Noon, Online via Zoom Platform
   Friday 1:00 – 4:00 PM, Online via Zoom Platform

Appointment will detail in Google Classroom

6. **Class Coordinator** : Asst. Prof. Dr. Arika Bridhikitti.....
   Contact No.: 084-660-2919...Email: arika.bri@mahidol.edu.....
7. **Course Description**

Background of environmental law, law and legislation principle, national environmental laws and regulations, poisonous substance acts, international environmental laws, requirements for preparing environmental impact assessment, environmental debate case study, environmental organization, relationships and roles of environmental organization.

8. **Course Objectives / Course Learning Outcomes (CLOs)**

No.	Objectives / CLOs	Expected Skills/ Knowledge			PLOs
		Specific	Generic	Knowledge	

8.1	Be able to correctly define and identify the Engineering Code of Practices/CLO1	1	1,2		2.3
8.2	Be able to plan for accomplishing environment impact assessment report/ CLO2	1	1,2		5.4
8.3	Be able to solve environmental problems in complied with laws, regulations and engineering code of practices /CLO3	1	1,2		2.1, 2.2.

Note

Subject-specific competences

1. Ability to apply knowledge of basic science and environmental engineering and disaster management fundamentals

Generic competences

1. Be responsible and practice along with the Professional Code of Conduct for Engineers and social ethics and regulations
2. Be able to define, formulate problem and scrutinize thoroughly and come up with appropriate decision and guidance.

Program learning outcomes

PLO2.1 Accurately define the problems in simulated scenarios

PLO2.2 Select appropriate methods and analyze data systematically

PLO2.3 Express an understanding in professional responsibility and ethics

PLO5.4 Apply knowledge in environmental engineering and disaster management to create benefits and positive impact to local communities and societies

9. Class Instructor List

9.1 Name : Asst. Prof. Dr. Arika Bridhikitti. (AB).. Contact No. :084-660-2919 Email : arika.bri@mahidol.edu.....

9.2 Name : .Mr. Monchai Pumkaew..(MP) Email : monchai.pum.mahidol.edu

9.3 Name : .Mr. Anon Sitdhivej (AS)

10. Course Outline

Week	Date	Contents	CLOs	Teaching & Learning	Instructor's Names
1	28 Jun 2021	Class introduction, course outline, learning outcomes,	1	• Lecture • Read-Think-Share	AB

		grading criteria, course evaluation Chapter 1 Introduction to General Law and Environmental Law - Thai Regulatory System - Environmental Promotion and Conservation Act 2535BE, 2561BE,		• Pre-test, Post-Test	
2	2 Jul 2021	Chapter 2 Organizations and Administrative Systems under the Environmental Laws Chapter 3 National Environmental Management Plan	1	• Lecture • Read-Think-Share • Pre-test, Post-Test	AB
3	5 Jul 2021	Chapter 4 Water Pollution Laws/Regulations	1, 2, 3	• Lecture • Read-Think-Share • Case Studies • Concept map • Pre-test, Post-Test • Concept Map (assignment)	AB
4	9 Jul 2021				
5	12 Jul 2021	Chapter 5 Air and Noise Pollution Laws/Regulations	1, 2, 3	• Lecture • Read-Think-Share • Case Studies • Pre-test, Post-Test • Concept Map (assignment)b	AB
6	16 Jul 2021	Chapter 6 Waste Management Laws/Regulations	1, 2, 3	• Lecture • Read-Think-Share	AB

				• Case Studies • Pre-test, Post-Test	
7	19 Jul 2021	Chapter 7 Hazardous Waste Management Laws/Regulations	1, 2, 3	• Lecture • Read-Think-Share • Case Studies • Pre-test, Post-Test • Concept Map (assignment)	AB
8	23 Jul 2021	Chapter 8 Environmental Justice Cases	2, 3	• Read-Think-Share • Case Studies	AB
9	30 Jul 2021 Mid-term Examination				
10	2 Aug 2021	Chapter 9 International Environmental Laws	1	• Lecture • Pre-test, Post-Test	AB
11 12 13 14	7-8 Aug 2021 (9.00 AM–5.00PM)	Environmental Impact Assessment and Case Studies	1, 2	• Lecture • Discuss case studies • Summarize learning content	MP/AS
15	16 Aug 2021	Engineering Professional Code of Conduct	1, 2	• Lecture • Discuss case studies • Summarize learning content	MP
16	20 Aug 2021				
17 18	27 Aug 2021 Final Examination				

11. Course Assessment

No.	Methods / Activities	Regulations	CLOs	Week	Weight Distribution

					(%)
11.1	Mid-term exam	Take home exam	1	9	20
11.2	Final exam	Take home exam	1	17	20
11.3	Pre-Test, Post-Test	Pre-Test, Post-Test – Multiple choice	1	Wk1-10	10
11.4	Individual Assignments	Rubric: Creativity, logic, Knowledgeability	1,2	4,5,7,15*	30
11.4	Discussions on Environmental Justice Cases	Rubric	2, 3	8	10
11.5	Class participation	Participation (5%), Active Collaboration-Rubric (10%)	1, 2, 3	2, 3, 4, 5, 6, 7, 8, 10	10
				Total	**100**

** Wk 15 งานส่ง อาจารย์มนต์ชัย*

12. Grading System

☑ Criterion-referenced evaluation

Grade	Score	Grade	Score	Grade	Score	Grade	Score
A	≥ 80 %	B	70 – 74.99%	C	60 – 64.99%	D	50 – 54.99%
B+	75 – 79.99%	C+	65 – 69.99%	D+	55 – 59.99%	F	< 50 %

☐ Norm-referenced evaluation

*If use both criterion and norm-referenced evaluation, please tick two boxes.

13. References

13.1 อำนาจ วงศ์บัณฑิต, 2557, กฎหมายสิ่งแวดล้อม, กรุงเทพฯ: วิญญูชน

13.2 บุญศรี มีวงศ์อุโฆษ, 2560, กฎหมายสิ่งแวดล้อมเชิงเปรียบเทียบ, กรุงเทพฯ: โครงการตำราและเอกสารประกอบการสอน คณะนิติศาสตร์ มหาวิทยาลัยธรรมศาสตร์

13.3 มหาวิทยาลัยสุโขทัยธรรมาธิราช, 2554, เอกสารการสอนชุดวิชากฎหมายสิ่งแวดล้อม, นนทบุรี: สำนักพิมพ์มหาวิทยาลัยสุโขทัยธรรมาธิราช เล่ม 1 และ เล่ม 2...