COURSE SYLABUS

Environmental Technology

Credit: 02 (lectures 02 – Self – study 06)

Code: MT 03001

Expected learning outcomes

Indicator	Upon the completion of the course, student able to	Expected learning outcomes of program
Knowledge		
K1	**Applying** the general principle of mechanical, physical, chemical and biological processes in environmental technology	ELO1: Apply the knowledge of natural science, politics, social science and humanities, law, economics, and awareness of contemporary issues in the field of environmental sciences.
K2	**Calculating** some specifications related to the technological process	ELO 5: Design waste treatment facilities (solid wastes, wastewater, and air pollutants) according to national and international standards and regulations.
K3	**Analyzing** factors affecting the efficiency of technological process	ELO 5: Design waste treatment facilities (solid wastes, wastewater, and air pollutants) according to national and international standards and regulations.
K4	**Selecting** appropriate technological treatment processes for specific waste object	ELO 5: Design waste treatment facilities (solid wastes, wastewater, and air pollutants) according to national and international standards and regulations.
Skills		
K 5	**Performing** calculations related to technological processes in specific case studies	ELO 6: Apply systematic, critical, and creative thinking in solving problems in the environmental and related fields.
K 6	**Performing** technological proposal for treatment applied to specific waste objects	ELO7: Work in groups and lead multi-functional teams effectively.
Attutute		
K 7	**Characterizing** active attitude in learning, researching, collect professional knowledge, and updating knowledge on environmental protection solutions.	ELO11: **Define** a clear career orientation; possess a passion for one's career and a sense of lifelong learning.
K 8	**Peforming** collective intelligence in selection of waste treatment technologies and environmental protection	ELO11: **Define** a clear career orientation; possess a passion for one's career and a sense of lifelong learning.

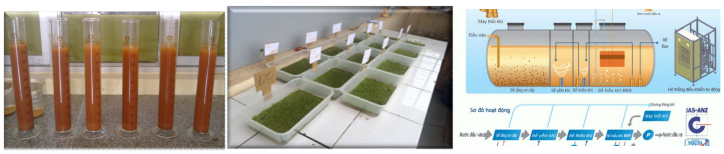
Brief descriptions

Chapter 1. Mechanical processes applied in environmental technology

Chapter 2. Physiochemical processes applied in the environemental technology

Chapter 3. Chemical processes applied in the environmental technology

Chapter 4. Biological processes applied in the environmental technology



Learning methods

- Lecture learning: in the class or via MsTeam online learning software
- Group base learning: discuss issues related to subject
- Self-study: reading materials, doing homework, studying materials
- E - learning: Search and look up documents; group discussion by topic; do homework

Assessment methods

- Grading scale: 10
- Evaluation:

Class Attendence (10%)	Exercise (20%)	Thematic report (20%)	Final exams (50%)

Student tasks

- Attendance: Students must attend at least 75% of the class and participate in activities in offline or online class.
- Discussion: Students must participate in group or class discussion, make questions, ideas and answer questions related to the subject
- Exercies: quick tests, assignments, essays
- Self-study: Students should read; synthesizing materials provided by lecturers

Key academic staffs

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