



COURSE SYLABUS

Environmental Technology practice

Credit: 01 (practice 01 – Self-study 03)

Code: MT 03002



Expected learning outcomes

Indicator	Upon the completion of the course, student able to	Expected learning outcomes of program
Knowledge		
CELO 1	Select experimental parameter/factors related to technological principles applied environmental technology	ELO2: Apply the knowledge of natural science, politics, social science and humanities, law, economics, and awareness of contemporary issues in the field of environmental sciences.
CELO 2	Analyze experimental results and propose technology for the treated pollutant	ELO 5: Design waste treatment facilities (solid wastes, wastewater, and air pollutants) according to national and international standards and regulations.
Skill		
CELO 3	Perform sampling and experimental layout in groups appropriate to the purpose of the lesson	ELO7: Work in groups and lead multi-functional teams effectively. ELO 10: Use modern technology, equipment, and techniques in the management and protection of the environment and natural resources.
CELO 4	Perform observations, follow-up experiments and analyze the experiment criteria in groups	ELO7: Work in groups and lead multi-functional teams effectively. ELO 10: Use modern technology, equipment, and techniques in the management and protection of the environment and natural resources..
CELO 5	Performing the calculation and data processing in experiments	ELO 10: Use modern technology, equipment, and techniques in the management and protection of the environment and natural resources.
CELO 6	Synthesize the result information and complete the report in groups	ELO 6: Apply systematic, critical, and creative thinking in solving problems in the environmental and related fields.
CELO 7	Select appropriate treatment technology through experiment	ELO 6: Apply systematic, critical, and creative thinking in solving problems in the environmental and related fields.
Attitude		
CELO 8	Formulate self-awareness in learning and research to improve professional knowledge, in cooperation to promote collective intelligence and update new knowledge on environmental treatment technologies	ELO11: Define a clear career orientation; possess a passion for one's career and a sense of lifelong learning

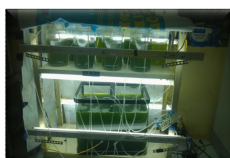
Brief descriptions

Lesson 1. Determining the composition of the particle in the water

Lesson 2. Determining the effect of coagulation process

Lesson 3. Determining the adsorption efficiency of activated carbon with chromium

Lesson 4. Determining of kinematic parameters of biological process



Learning methods

- Learning through experiments
- Working group
- Discuss, ask and answer questions related to the subject
- Self-study: reading materials, doing homework, studying materials through means of books, newspapers, magazines, online lectures

Assessment methods

- Grading scale: 10
- Evaluation:

Class Attendance (10%)	Practice (20%)	Thematic report (20%)	Final Exams (50%)
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Key academic staffs

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Student tasks

- Attendance: Students must attend at 100% of the lab and participate in lab activities.
- Experiment implementation: Organize the deployment of experiments in groups
- Discuss and complete the report in groups
- Take oral exams
- Self-study: Students self-study and study according to the teacher's instructions