



COURSE SYLABUS

WASTE TREATMENT PROJECT

Credits: 02 (Lectures 0 – Practices 02 – Self-study 06)

Code: MT03012



EXPECTED LEARNING OUTCOMES

Indicator	Upon completion of the course, Student able to	Expected learning outcomes of program
Knowledge		
CELO1	Applying specialized knowledge in projects planning and assessing the status of waste sources.	ELO4: Develop sustainable solutions for environmental and resources management and protection from different perspectives of science, humanities and society.
CELO2	Selecting an appropriate waste treatment technology for target subject and explaining the appropriate aspects of the selected technology	ELO4: Develop sustainable solutions for environmental and resources management and protection from different perspectives of science, humanities and society.
CELO3	Defining the technical specifications for waste treatment facilities	ELO5: Design waste treatment facilities (solid wastes, wastewater and air polutants) according to national and international standards and regulation
CELO4	Developing technical drawing for waste treatment system	ELO 5: Design waste treatment facilities (solid wastes, wastewater and air polutants) according to national and international standards and regulation
Skills		
CELO5	Synthesizing information on the characteristics of waste sources and main criteria in selecting and proposing treatment technology	ELO 6: Apply systematic thinking, critical thinking and creative thinking in solving environmental problems and related fields. ELO 9: Apply appropriate approaches and methods, techniques to investigate, survey and study environmental issues.
CELO6	Using computer software, specialized software in calculating parameters and developing technical drawings of waste treatment systems	ELO 6: Apply systematic thinking, critical thinking and creative thinking in solving environmental problems and related fields. ELO 10: Use modern technology, equipment and techniques in natural resources and environment management and protection activities.
CELO7	Demonstrating selected technology options and technical drawings based on basic knowledge combined with the use of modern techniques	ELO7: Work in group and Lead the multi-functional teamCĐR ELO8: Communicate effectively via oral, written, and multimedia with stakeholders in a dynamic environment; Obtain an English standard as required by the Ministry of Education and Training
Attitude		
CELO8	Peforming the active thinking, responsibility and promote collective intelligence in the process of implementing projects	ELO11: Determine a clear professional orientation, career passion and a sense of lifelong learning.

BRIEF DESCRIPTION

Developing the project outline

Presentation of the project outline

Implementation of the project

Completion and Presentation of project outcomes

ASSESSMENT METHODS

- Grading scale : 10

Evaluation of the project outline (20%)

Assessing the project implementation process (30%)

Evaluating the content of project outcomes (20%)

Evaluation of Project Defense (Presentation): (30%)

Student tasks:

- Attendance: All students attending this course must attend 100% of classes, 100% of group discussions and group presentations on selected topics.
- Prepare for project: All ttudents must read carefully the literature reviews, materials provided by lecturer, field servey, group discussion and develop a project outline.
- Completing the project outcomes: All students need to follow all the course contents, complete the products in individual stages and complete final reports.

LEANRING METHOD



Case study

Class attendance



Field survey

Learing methods

Online via MS Team/E-learning

Group discussion and presentation



Key academic staffs

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