COURSE SYLLABUS

MT04999: GRADUATION THESIS

(Credits: 10 credits, Self-study: 30 credits)

Code: MT04999

Course Expected Learning Outcomes

	Upon completion of the course, Students are able to :	Students demonstrate the achievement of ELOs and are assessed according to the following criteria:
General knowledge	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.	Select scientific research / project issues to meet the needs of socio-economic development; and in accordance with politics, humanities, laws and future trends in environmental science
Professional knowledge	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.	Design appropriate research / survey methods.Collect and analyze data properly and completely
	ELO3: Evaluate the impact of natural resource exploitation and emissions on environmental quality.	Implement fully and properly the process of analysis, evaluation, decision making and monitoring and generate appropriate evaluation results.
	ELO4: Develop sustainable solutions for the management and protection of the environment and natural resources based on different perspectives of natural science, social science, and humanities.	Propose sustainable solutions for the management and protection of the environment and resources based on solid scientific foundations, perspectives and arguments.
	ELO 5: Design waste treatment facilities (solid wastes, wastewater, and air pollutants) according to national and international standards and regulations.	Design waste treatment facilities (solid, liquid and gas) according to national and international standards and regulations.
General skills	ELO 6: Apply systematic, critical, and creative thinking in solving problems in the environmental and related fields.	Apply systematic thinking, critical thinking and creative thinking in solving problems of scientific research / project.
	ELO7: Work in groups and lead multi-functional teams effectively.	
	ELO8: Communicate effectively via oral, written, and multimedia means with stakeholders in a dynamic environment; Satisfy the English requirement of the Ministry of Education and Training.Professional skills	Write and present clearly and coherently scientific research / project reports.Read and understand professional materials in English
Professional skills	ELO 9: **Apply** appropriate approaches, suitable methods, and techniques to investigate, survey, and study environmental problems.	Apply proficiently investigation and information collection skills to effectively fulfill scientific research / project objectives
	ELO 10: Use modern technology, equipment, and techniques in the management and protection of the environment and natural resources.	Apply information technology and analytical equipment in problem solving in scientific research / projects
Attitude	ELO11: **Define** a clear career orientation; possess a passion for one's career and a sense of lifelong learning.	Demonstrate a sense of labor discipline and self-study
	ELO12: : **Demonstrate** ethical standards of the profession, carrying out the responsibility of environmental protection and serving the sustainable development of Vietnam and the world.	Demonstrate career orientation and stance in environmental protection

Course contents

- Students are instructed by a lecturer to apply the knowledge, experience and scientific research methods, they have learned in the program to conduct a scientific research or applied project in the field of environmental science :

  Environmental administration and environment and natural resources management

  Environmental technology; Pollution controls and mitigations

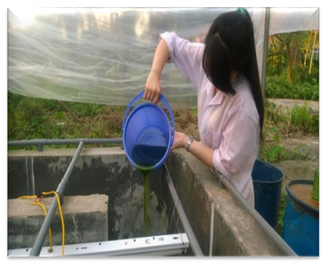
  Development of environment and resource management models

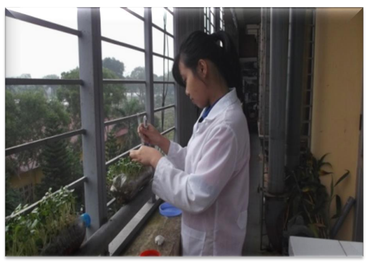
- Students are also learn to write the scientific report, present and defense their research.

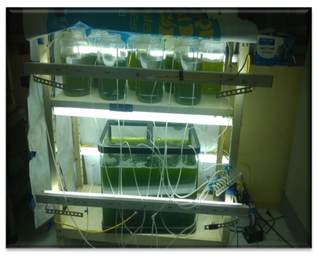


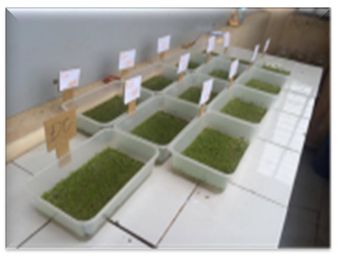
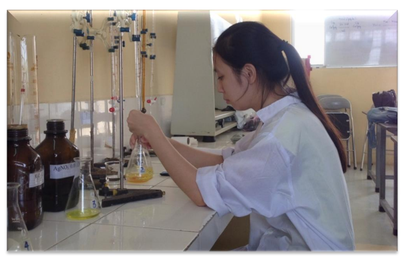










Learning methods

Literature review, data compile, research/project outline writing

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Implementation of the research/project

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Data analysis

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Report writing

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Thesis defense and Q$A

Assessment methods

- Grading scale: 10; Weight:

  R1. Thesis report (20%)

  R2. Thesis defense and Q&A (80%)

Student tasks

- Duration of graduation thesis is from 4-6 months. Of which, the survey and data collection at the study site is about 4 months
- Students write and defend the proposal, progress report, graduation thesis.

Key academic staffs

- The course is in charge of the Faculty of Environment
- Students contact the instructor and the training office to sign the research / project content.

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