

skills

attitude

COURSE SYLABUS – CODE MT03009

ENVIRONMENTAL MONITORING: PRACTICES



Credits: 02 (Practices: 02 - Self-study: 06)



EXPECTED LEARNING OUTCOMES

Upon the completion of the course, student able to

CELO1. Collecting information for the development of state of the environment

monitoring program according to regulations

CELO3. Proficient in sampling methods, sample preservation environmental criteria

environmental monitoring data quality control

results

CELO6. Prepare reports on the current state of environment in accordance with current legal regulations

environmental assessment for sustainable development

CELO8. Comply with legal regulations on environmental monitoring, be responsible for monitoring data

environmental monitoring programs and assessing the current ELO7. Work in groups and lead multi-functional teams effectively

CELO2. Proficient in the steps to develop an environmental ELO9. Apply appropriate approaches, suitable methods, and techniques to investigate, survey, and study environmental problems

ng methods, sample preservation techniques for some basic and protection of the environment and natural resources

CELO4. Implement techniques for sample quality control and ELO9. Apply appropriate approaches, suitable methods, and techniques to investigate, survey, and study environmental problems

CELO5. Proficient in assessing environmental monitoring ELO10. Use modern technology, equipment, and techniques in the management and protection of the environment and natural resources

ELO7. Work in groups and lead multi-functional teams effectively

the **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

CELO7. Actively learning and updating knowledge about ELO11. Define a clear career orientation; possess a passion for one's career and a sense of lifelong learning

ELO12. Demonstrate ethical standards of the profession, carrying out the responsibility of environmental protection and serving the sustainable development Vietnam and the world



BRIEF DESCRIPTION

- Lesson 1. Defining monitoring objectives
- Lesson 2. Building a surface water monitoring program
- Lesson 3. Developing a wastewater monitoring program
- Lesson 4. Developing an outdoor air monitoring program
- Lesson 5. Developing an emission monitoring program
- Lesson 6. Methods of mass analysis and measurement
- Lesson 7. Titration method
- Lesson 8. Analysis using tools
- Lesson 9. Handling monitoring data
- Lesson 10. Assessment of environmental quality



LEARNING METHODS

- Directly instruct students in the laboratory on practical contents.
- Guide students to discuss in groups.
- E-learning: find documents, study documents, study guides
- Internship in the field (observation, measurement, field survey, environmental parameters analysis)



STUDENT TASKS

- Attendance: All students participating in this module must ensure 100% of the internship period in the field and in the laboratory.
- Prepare for lectures: All students must complete the study of study materials, reference materials according to thematic content before each lesson requested by the teacher. Prepare materials as required by the teacher. Participating in exchanges, discussions and assignments at the request of teacher/s through e-learning.
- Presentation and discussion: Conduct presentations and group discussions in the laboratory and in the field









ASSESSMENT METHODS

- Grading scale: 10
- **Evaluation:**
 - Discussion and personal products (40%)
- Professional skills and expertise (60%)



KEY ACADEMIC STAFFS

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