

COURSE SYLABUS Environmental Information System

Credits: 02 (Lectures 01 – Practice 01 – Self-study 06) Code: MT02006



Expected learning outcomes

Indicator	Upon the completion of the course, student able to	Expected learning outcomes of program		
Knowledge				
CELO1	Present the concept and the role of Environmental Information Systems (EIS); characteristics of environmental information data.	ELO2: Analyze environmental quality including designing and conducting experiments, collecting data, and interpreting results.		
CELO2	Collect and standardize the data for EIS.	ELO2: Analyze environmental quality including designing and conducting experiments, collecting data, and interpreting results.		
CELO3	Build a database structure of EIS	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.		
CELO4	Analyze the data and information in EIS for environmental quality monitoring and environmental risk assessment.	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.		
Skills				
CELO5	Utilize the computers and specialized software in building EIS to tackle specific environmental issues in reality.	ELO10: Use modern technology, equipment, and techniques in the management and protection of the environment and natural resources.		
Attitude				
CELO6	Building capacities for self-study, research, and updating academic knowledge.	ELO11: Define a clear career orientation; possess a passion for one's career and a sense of lifelong learning.		



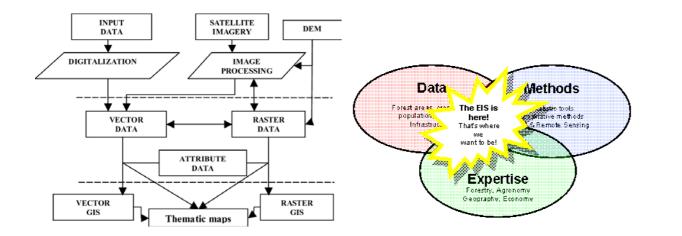
Course descriptions

This course covers the concepts and characteristics of an environmental information system (EIS); The role of the EIS in managing environmental information in space and time; Database structure of EIS; Methods of integrating different data in the EIS; Methods of calculation, compilation of intermediate data and extraction of environmental information; Practicing application of EIS in environmental management.



Learning methods

- Self-study: read course materials provided by instructors
- Participate in class discussions.
- Attend the class or via Microsoft Teams and Elearning (http://elearning.vnua.edu.vn)



Practice EIS exercises and explore online resources for the course.



Assessment methods

- Band score: 10
- In which: progress evaluation 50%, final exam 50%

Participation and short	Practice (30%)	Final exam
questions (20%)		(50%)



Student tasks

- Students should have an internet-connected PC and ۲ install the course software for practice exercises.
- Attendance: Students need to attend more than 75% • of the class hours and complete 5 computer-based practice exercises.
- Self-study: Students should read the materials and do the assignments assigned by the instructor.
- Take the final exam ٠



Key academic staffs

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