COURSE SYLABUS

Environmental Information System

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

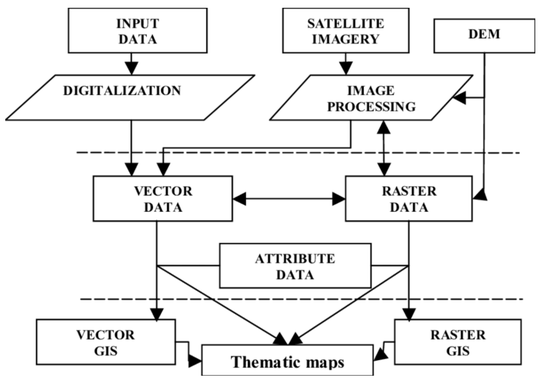
Code: MT02006

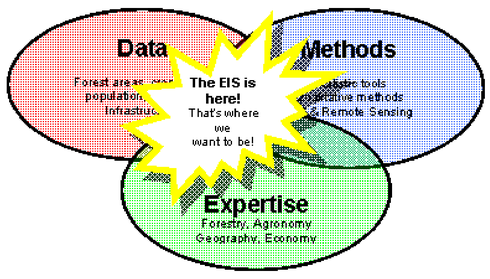
Expected learning outcomes

Indicator	Upon the completion of the course, student able to	Expected learning outcomes of program
Knowledge		
CELO1	Present the concept and history of Environmental Information Systems (EIS); Different EIS in the world	**ELO2:** Analyze environmental quality includes the design and implementation of environmental tests, as well as data collection and interpretation.
CELO2	Analyze the role of EIS in managing environmental information in space and time.	**ELO2:** Analyze environmental quality includes the design and implementation of environmental tests, as well as data collection and interpretation.
CELO3	Build a database structure of EIS	**ELO4:** Create sustainable solutions for the management and protection of the environment and resources based on different perspectives of science, humanities and society.
CELO4	Integrating different data in EIS	**ELO4:** Create sustainable solutions for the management and protection of the environment and resources based on different perspectives of science, humanities and society.
CELO5	Calculate, compile intermediate data and extract information.	**ELO4:** Create sustainable solutions for the management and protection of the environment and resources based on different perspectives of science, humanities and society.
Skills		
CELO6	Apply knowledge of building EIS into case studies through computer systems and software.	**ELO10:** Use modern technology, equipment and techniques in natural resources and environment management and protection activities.
CELO7	Use computer and specialized software to build environmental information systems and solve simple environmental problems in reality.	**ELO10:** Use modern technology, equipment and techniques in natural resources and environment management and protection activities.
Attitude		
CELO8	Have capacity of proactive learning and career passion.	**ELO11:** Clear future orientation, career passion 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 instructor
- Participate in class discussions.
- Attend the class or via Microsoft Teams and E-learning (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 questions (20%)	Practice (30%)	Final exam (50%)

Student tasks

- Students should have an internet-connected PC and install the course software for practice excercises.
- 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

Key academic staffs

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