

LABORATORY DESCRIPTION

General Information

School	Geotechnical Sciences
Department	Forest and Natural Environment Sciences

Title of the Laboratory - Acronym

Environmental Remote Sensing and Geographic Information Systems

Head of the Laboratory

Panteleimon Xofis

Short Description

The laboratory is responsible for the organization and teaching of the following subjects:

- Environmental Remote Sensing
- Geographic Information Systems
- Spatial Analysis Principles
- Environmental Modeling
- Evaluation and evaluation of ecosystem services

The laboratory has the necessary equipment for the teaching of the above subjects including a classroom with 27 workstations and the necessary multimedia tools for this purpose.

The laboratory conducts research in a wide range of topics related to applied remote sensing and spatial analysis. More specifically:

- Use of Remote Sensing data and methods to assess the ecological status of terrestrial ecosystems
- Long-term analysis of land uses and parameters that determine their dynamics
- Long term monitoring of climatic patterns using remote sensing tools and methods
- Fuel mapping using satellite imagery
- Analysis of landscape dynamics and assessment of future parameters with simulation methods
- Forest fire analysis with the integrated use of remote sensing and simulation models.