

LAR107 Soil Science

Department of Landscape Architecture – Elective course

Credit: 3 ECTS: 4



Course Description: This comprehensive course in soil science provides students with a foundational understanding of the intricate relationships between plants and soil, encompassing essential topics such as soil texture, classification, beneficial and harmful soil fauna, soil temperature dynamics, and strategies for soil adjustment and manuring. Through a combination of theoretical knowledge and hands-on practical applications, students will gain insights into the critical role of soil in supporting plant life, sustainable agriculture, and environmental health.

Course Outcomes:

- Students will comprehend the intricate interactions between plants and soil, recognizing the pivotal role of soil in sustaining plant life.
- Participants will analyze and differentiate soil textures, developing the ability to assess and manage soil properties for optimal plant growth.
- Gain proficiency in soil classification, enabling students to categorize soils based on their physical and chemical characteristics.
- Understand the diverse communities of beneficial and harmful fauna in soil, and their impact on soil health and plant productivity.
- Acquire knowledge of soil temperature dynamics and its influence on plant growth, allowing for informed decision-making in agricultural practices.
- Develop skills in adjusting soil properties to meet specific plant requirements, fostering sustainable and efficient land use practices.
- Explore various methods of soil manuring, understanding their impact on soil fertility and the environment, and applying this knowledge to promote responsible and effective agricultural practices.