Ecology

Course # DMNS 2073

Credits 3

Pre-requisites and Co-requisites: None

Course description

This course covers the field of ecology, focusing on the interactions between living organisms and their physical environments. Students explore the structure and functionality of various ecological systems, including populations, communities, and ecosystems. The course aims to ensure students master major concepts and basic terminology of ecology, comprehend how evolution and ecology complement each other, and become familiar with different approaches to ecological study, such as theory, observations, and experiments. By the end of the course, students achieve a comprehensive understanding of the complex interrelationships that define ecological systems.

Course Learning outcomes

Upon completion of this course, students should be able to:

- Explain the environmental characteristics of different ecosystems, evolution, and adaptation of organisms to environmental conditions.
- Define the energy flow and nutrient cycle.
- Recognize and evaluate examples of human impact on the natural world.
- Analyze the global processes. (water cycle, Climate change etc.)

Course assessment and grading

Item	**Weight (%)**
Contribution	10
Group Assignment: Ecological problems and their solutions	10
Quiz	20
Group project	30
Final Exam	30