

Field of Study 11 - Water-Food-Energy Nexus

Master of Science in Environmental Engineering

Students of this FoS are familiar with the close interactions and competing interests within the Water-Food-Energy Nexus and the need for a better recognition of these issues in decision-making. Students are acquiring knowledge in principles and applications of land management, ethics in science and technology, economics, and policy and regulatory requirements. They also have an understanding of options for renewable energy generation (e.g., decentralized hydropower, biogas, geothermal, wind, solar) and are able to evaluate the consequences of man-made deterioration of the hydrological cycle.

Required Modules

NN Principles and applications of land management

NN Ethics in Science and Technology

Elective Modules

NN Energy Economics and Hydropower

BGU54008T2 Hydrological and Environmental River Basin Modelling

BGU38019 Anaerobic Processes and Energy Recovery

NN Fisheries Management

BV170009 International Water Rights and Politics

NN Regulatory Economics and Policy

NN Shallow and deep geothermal energy use of groundwater

NN Ocean and Wind Energy I+II

NN Fundamentals of Climate Change

Pending module codes will be updated before the beginning of the semester.