

Operation and analysis of environmental monitoring systems

Course number: 001-2-5055

Lecturer: Prof. Naftali Lazarovitch and Prof. Ofer Dahan

Course credits: 1

Course description:

The course provides basic knowledge and hands on tools on common monitoring and data acquisition devices for field and laboratory measurements. The course includes theoretical and practical training of common devices. The final grade will be based on project accomplishment.

Syllabus:

Introduction to data acquisition systems such as data loggers which are used for operation of field and

laboratory measurement devices

Introduction to commonly used sensors such as solar radiation, pressure transducers, thermocouples,

electrical conductivity, water gougues

The principles of Time Domain Reflectometry (TDR)

Setting and installation of monitoring devices

Communication with the data loggers

Creating and managing databases