

## **Soil physics**

*Course number:* 001-2-2038

*Lecturer:* Prof. Naftali Lazarovitch

*Course credits:* 3

*Course description:*

The course provides an advanced overview of soil physics. Students will study terms to describe soil and

develop a foundation to analyse soil processes and properties.

The course approach is quantitative with extensive use of mathematical tools. Additionally the students

will explore various methods and devices to measure soil water status (content and potential) and soil

properties (thermal, hydraulic).

*Syllabus:*

The solid phase

Soil water relations

Saturated water flow

Unsaturated flow

Field water processes

Heat and energy transport

Soil gases and transport

Soil variability