

(2 credits)

001-2-2005

Weekly Lecture Hours	Exercise	Laboratory	Field Trip
2			

- Photosynthesis and stress conditions: the three main processes of photosynthesis; the effects of water stress on photosynthesis; the effects of high and low temperatures on photosynthesis; stomatal and non-stomatal effects on photosynthesis and other effects on photosynthesis (leaf age, CO<sub>2</sub> concentration).
- Water relations in plants: leaf water potential; measuring leaf water potential; water stress and plant growth.
- Effects of high and low (chilling and freezing) temperatures on plants
- Effects of flood on plants
- Plant drought stress and ABA
- Salt stress – effects on plants, Salt absorption, salt removal
- Salt compartmentation in plant's tissue and in plant's cells
- ROS, growth and senescence

***Grading Components:***

1. Presence 10%
2. Presentation 20%
3. Paper 70%

**Total 100%**

***Lecturers:*** Moshe Saggi and Jhonathan Ephrath

***Recommended Readings:*** Provided during the course.