

## *The Hebrew University of Jerusalem*

### *Syllabus*

## *Physics Lab A: Mechanics Electricity and Magnetism - 77103*

*Last update 31-10-2019*

*HU Credits:* 6

*Degree/Cycle:* 1st degree (Bachelor)

*Responsible Department:* Physics

*Academic year:* 0

*Semester:* Yearly

*Teaching Languages:* Hebrew

*Campus:* E. Safra

*Course/Module Coordinator:* Ady Vaknin

*Coordinator Email:* [avaknin@mail.huji.ac.il](mailto:avaknin@mail.huji.ac.il)

*Coordinator Office Hours:* By appointment

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Teaching Staff:

Prof Ady Vaknin,  
Prof Yaron Bromberg,  
Prof Eran Sharon

Course/Module description:

Physics Lab I is the gate, for you the students, to the world of experimental physics. The goal of this course is to provide you with the basic tools for conducting experiments, analyzing data, and making conclusions. Some of the topics that will handle are: Momentum and energy conservation, harmonic oscillator and resonance, coupled oscillators, rigid body and angular momentum, electric and magnetic fields, and electrical circuits.

Course/Module aims:

See course description

Learning outcomes - On successful completion of this module, students should be able to:

See course description

Attendance requirements(%):

100

Teaching arrangement and method of instruction: Lab

Course/Module Content:

See course description

Required Reading:

None

Additional Reading Material:

None

Grading Scheme:

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Additional information:

*The make-up of the final grade will be explained at the beginning of the semester.*