

The Hebrew University of Jerusalem Syllabus

Physics for medical students - 96103

Last update 13-11-2024

HU Credits: 2

<u>Degree/Cycle:</u> 1st degree (Bachelor)

Responsible Department: Medicine

Academic year: 0

Semester: 1st Semester

<u>Teaching Languages:</u> Hebrew

Campus: Ein Karem E. Safra

<u>Course/Module Coordinator:</u> Danny Ben-Zvi

Coordinator Email: danny.ben-zvi@mail.huji.ac.il

Coordinator Office Hours:

Teaching Staff:

Dr. Moshe Roseman, Prof. Dan Ben Zvi

Course/Module description:

In this course, we will introduce and clarify basic concepts in physics that are required for physiology and medical studies.

Course/Module aims:

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

The students will understand how conservation laws are relevant to biomedicine.

The students will understand how electrostatics and simple electrical circuits are relevant for cell biology.

The students will understand the standard units.

Attendance requirements(%):

Teaching arrangement and method of instruction:

Course/Module Content:
conservation laws
electrostatics
simple electrical circuits
how electrostatics and electrical circuits relate to cell biology
physical units

<u>Required Reading:</u> none

Additional Reading Material:

Grading Scheme:

Submission assignments during the semester: Exercises / Essays / Audits / Reports / Forum / Simulation / others 100 %

Additional information: