האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

MICRO-ELECTRONICS DEVICES LAB - 83412

Last update 17-08-2023

HU Credits: 3

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Applied Physics

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: E. Safra

Course/Module Coordinator: Dr Gilad Marcus

Coordinator Email: gilad.marcus@mail.huji.ac.il

Coordinator Office Hours: Coordinate in advance

Teaching Staff:

Dr. Liron Stern

Course/Module description:
Characterization of the basic components of microelectronics: Diodes, Transistors CMOS, bipolar transistor, SCR. The experiments include performance measurements devices and their dependence on the details of the structure of the devices and their operation conditions.

Course/Module aims:
Basic knowledge of electronic measurements and measurements Components

Learning outcomes - On successful completion of this module, students should be able to:
Characterize basic components like diodes and CMOS transistors

Attendance requirements(%):
100

Teaching arrangement and method of instruction: Preliminary report
Conducting experiments and writing the final report

Course/Module Content:
See course aims

Required Reading:
according to recommendation of the lab instructors

Additional Reading Material:
NA

Grading Scheme:
Active Participation / Team Assignment 40 %
Submission assignments during the semester: Exercises / Essays / Audits / Reports / Forum / Simulation / others 50 %
Personal Guide / Tutor / Team Evaluation 10 %

Additional information:

Grade composition:

10% preliminary report

40% experiment

50% final report