האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

SEPERATION METHODS IN BIOLOGY - 73521

Last update 29-01-2017

HU Credits: *2*

Degree/Cycle: *2nd degree (Master)*

Responsible Department: *animal & veterinary science*

Academic year: *0*

Semester: *2nd Semester*

Teaching Languages: *Hebrew*

Campus: *Rehovot*

Course/Module Coordinator: *Orna Halevy*

Coordinator Email: *orna.halevy@mail.huji.ac.il*

Coordinator Office Hours: *By appointment*

Teaching Staff:

Prof Orna Halevy

Course/Module description:
General knowledge of the theory behind chromatography. Study of methods for separation of micromolecules (e.g., vitamins, lipids) and macromolecules (e.g., proteins).

Course/Module aims:
General knowledge of the theory behind chromatography. Study of methods for separation of micromolecules (e.g., vitamins, lipids) and macromolecules (e.g., proteins).

Learning outcomes - On successful completion of this module, students should be able to:
Plan experiments including the chromatography methods
Determine purity level of protein
Solve problems of zone spreading
Solve problems of protein identification

Attendance requirements(%):
80%

Teaching arrangement and method of instruction: Frontal class

Course/Module Content:
Principles of chromatography,chromatography of macromolecules: absorption,reverse-phase,ion exchange,gel filtration,affinity. Electrophoresis according to charge,molecular weight,iso-electrofocusing,Western blots,identification of molecules,

Required Reading:
Articles

Additional Reading Material:
Articles, Websites

Course/Module evaluation:

End of year written/oral examination 100 %
Presentation 0 %
Participation in Tutorials 0 %
Project work 0 %
Assignments 0 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information:

Recommended to first year MSc students