

The Hebrew University of Jerusalem

Syllabus

Introduction to sciences and analytical methods in forensic sciences - 61913

Last update 15-03-2024

HU Credits: 3

Degree/Cycle: 2nd degree (Master)

Responsible Department: Criminology

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Prof. Abraham (Avi) Domb

Coordinator Email: avid@ekmd.huji.ac.il

Coordinator Office Hours: appointment 054-8820677

Teaching Staff:

Prof Abraham Domb,
Dr. Merav Darash-yahana

Course/Module description:

Introductory course to students without exact science background, particularly in chemistry and biology, that will allow them to understand the methods used in forensic labs and read expert opinions.

Course/Module aims:

The objective of this course is to provide background in chemistry and biology and methods commonly used at forensic labs. The course is composed of 2 chapters:

1. Introduction to general chemistry
2. Introduction of organic chemistry

In the second part, we will study basic biology to allow understanding of Forensic DNA

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

Familiarize with chemistry terminology, use of scientific methods commonly used in chemical labs and in forensic labs. know the chemical structure of some illicit drugs, explosives and burning agents. The background in biology will allow understand forensic DNA

Attendance requirements(%):

80

Teaching arrangement and method of instruction: Remote studies using pre-recorded lectures and ZOOM sessions.

Course/Module Content:

The course is divided in 2 chapters, general chemistry which include: atoms, molecules, chemical reactions, redox reactions. Pat 2 will be devoted to organic chemistry, synthesis and functiona groups.

Required Reading:

to be added to the course website

Additional Reading Material:

to be added to the course website

Grading Scheme:

Written / Oral / Practical Exam 90 %

Attendance / Participation in Field Excursion 10 %

Additional information: