



# *The Hebrew University of Jerusalem*

## *Syllabus*

### **INTRODUCTION TO HUMAN GENETICS - 64648**

*Last update 18-01-2024*

*HU Credits:* 3

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

*Responsible Department:* School of Pharmacy

*Academic year:* 0

*Semester:* 1st Semester

*Teaching Languages:* Hebrew

*Campus:* Ein Karem

*Course/Module Coordinator:* Dror Sharon

*Coordinator Email:* [dror.sharon1@mail.huji.ac.il](mailto:dror.sharon1@mail.huji.ac.il)

*Coordinator Office Hours:* Contact by email any time

*Teaching Staff:*

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Prof. Dror Sharon,  
Dr. Anat Blumenfeld,  
Ms. Yifa Noyek

Course/Module description:

*Various talks and practices on basic introduction to human genetics.*

Course/Module aims:

*To give the student basic knowledge in human genetics*

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

*Understanding of inheritance patterns, genetic mechanisms, to get familiar with basic genetic analyses and understand the impact of genetics on therapy.*

Attendance requirements(%):

*80*

*Teaching arrangement and method of instruction: Lectures and exercises*

Course/Module Content:

*Mendelian inheritance, mitosis, myosis, genomic imprinting, multifactorial inheritance, population genetics, karyotype, linkage, candidate gene, gene therapy.*

Required Reading:

*none*

Additional Reading Material:

*none*

Grading Scheme:

*Computerized Exam - At the cluster % 70  
Mid-terms exams 30 %*

Additional information:

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*Mandatory presence in lectures and practice. Three mid-term exams will take place- one as a home duty and two class exams. Mid-term exams score (mean of the best 2 out of the 3 exams) will be taken into account only if higher than the final exam score.*