האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

Geoinformatics B - 40942

Last update 02-09-2021

HU Credits: 3

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Geography

Academic year: 0

Semester: 1st and/or 2nd Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Adi Ben-Nun

Coordinator Email: bennun@cc.huji.ac.il

Coordinator Office Hours: 11:00-10:00

Teaching Staff:

Mr. Adi Ben-Nun,
Ms. hagar srulovitch,
Mr. yossi navon,
Dr. Asher Yair Grinberger

Course/Module description:

This course is designed for students with little or no experience using Geographic Information Systems (GIS).
Participants will receive instruction on the use of GIS software and an introduction to commonly used and readily available data sources.
At the end of the course participants will have created several thematic map(s) illustrating the results of spatial analyses of data related to different applications.

Course/Module aims:

Theoretical background for construction field.
Practical experience working with GIS software

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

Apply the theoretical background learned by using GIS software

Attendance requirements(%):

80%

Teaching arrangement and method of instruction: lecture + exercises

Course/Module Content:

Display of spatial information:
Characteristics, features and prone to error
Create a Map
Layers
Vector representation and Raster
Sources of Information
Applications Bases
Select spatial and tabular
Actions Table, Statistics
Buffer zones
overlay layers
Data link by location

Image editing and anchoring
Simulation and calculation in 3D
Qgis

Required Reading:
non

Additional Reading Material:
non

Course/Module evaluation:
End of year written/oral examination 40 %
Presentation 0 %
Participation in Tutorials 0 %
Project work 0 %
Assignments 40 %
Reports 0 %
Research project 0 %
Quizzes 20 %
Other 0 %

Additional information:
The course requirements include a written quiz and exam, both including practical exercises using the ArcGIS Pro software. If it would not be possible to hold the quiz/exam in class, a home assignment would be given instead. The students will have 24 hours to submit the assignment.