The Hebrew University of Jerusalem

Syllabus

Geoinformatics and Geographical Information Science - 40122

Last update 01-09-2021

HU Credits: 2

Degree/Cycle: 2nd degree (Master)

Responsible Department: Geography

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Yair Grinberger

Coordinator Email: yair.grinberger@mail.huji.ac.il

Coordinator Office Hours: Tuesday 13:00-14:00, Room 4622, Social Sciences faculty

Teaching Staff:
Dr. Asher Yair Grinberger

Course/Module description:
Geographical Information Science is the scientific field that asks questions regarding the representation of the world in geodatabases, processing, analysis, and visualization tools for producing information and knowledge regarding specific questions (geoinformatics), and the relations between human society and geo-information. The focus of this seminar is on designing a research plan in the field, starting from choosing a research question and up to producing results and interpreting them, towards writing a seminar paper on a related subject.

Course/Module aims:
The objective of the course is to supervise and guide students who write seminar papers based on independent research work relating to topics within the fields of GIScience and geoinformatics. In the course we will identify topics fitting with research in these fields and design an appropriate research plan, starting from identifying relevant literature, through developing a conceptual model, collecting/mining data, choosing the right analysis tools, and up to academic writing.

Learning outcomes - On successful completion of this module, students should be able to:
** to implement the basic principles of academic writing*
** to list the basic components of a seminar paper*
** to design an initial plan for a seminar research and paper*
** to identify relevant literary sources*
** to formulate a research question, a conceptual model, and hypotheses*

Attendance requirements(%):
57% (8 classes)

Teaching arrangement and method of instruction: The course combines frontal lectures, student presentations, discussions in small groups, and personal meetings with the course's supervisor

Course/Module Content:
** An introduction to GIScience*
** Formulating a research question*

** Locating literature and writing hypotheses*
** Locating data*
** Choosing research methods*
** Analyzing and presenting results*

Required Reading:
None

Additional Reading Material:
Will be detailed later

Course/Module evaluation:
End of year written/oral examination 0 %
Presentation 16 %
Participation in Tutorials 24 %
Project work 0 %
Assignments 60 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information:
The style of teaching in the course depends on the number of enrolled students. Accordingly, the number, nature, and percent in the final grade of exercises may change.