



The Hebrew University of Jerusalem

Syllabus

QUARTENARY GEOMORPHOLOGY - 70517

Last update 16-08-2017

HU Credits: 3

Degree/Cycle: 2nd degree (Master)

Responsible Department: geology

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: E. Safra

Course/Module Coordinator: Yehouda Enzel

Coordinator Email: yehouda.enzel@mail.huji.ac.il

Coordinator Office Hours: Wed 11-12

Teaching Staff:

Prof Yehouda Enzel

Course/Module description:

Definition of the Quaternary epoch and the changes in this definition through time. Climate and climate change in the Quaternary and the impact of climate at various temporal scales on continental environments. We will stress arid and hyperarid environments including monsoonal regions. We will review how soils are used in Quaternary studies, and will discuss tectonic geomorphology, lacustrine and fluvial paleohydrology, drainage basin, slopes and alluvial fans to climate at Quaternary temporal scales.

Course/Module aims:

Increase of knowledge, and understanding of approaches and ways of thinking in continental Quaternary research by using concepts from sedimentology, geomorphology, paleohydrology, paleoclimatology, and geochronology.

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

Exposure of students to benchmark papers in the subjects. Field trip focusing on sand dunes, loess, evolution of the Negev drainage, landscape evolution in arid watersheds, soils, active tectonics. Students present one subject and write paper on it.

Attendance requirements(%):

100

Teaching arrangement and method of instruction: Lectures
reading before classes and answering a few guiding questions
3 days field trip
class discussions
writing paper and presenting in class

Course/Module Content:

Quaternary

Required Reading:

each week

Additional Reading Material:

None

Course/Module evaluation:

End of year written/oral examination 0 %

Presentation 20 %

Participation in Tutorials 0 %

Project work 40 %

Assignments 30 %

Reports 10 %

Research project 0 %

Quizzes 0 %

Other 0 %

Additional information:

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