Syllabus

Volcanism in the Golan and Galilee - 70547

Last update 27-02-2014

**HU Credits:** 2

**Degree/Cycle:** 2nd degree (Master)

**Responsible Department:** Geology

**Academic year:** 1

**Semester:** 2nd Semester

**Teaching Languages:** Hebrew

**Campus:**

**Course/Module Coordinator:** Oded Navon

**Coordinator Email:** oded.navon@huji.ac.il

**Coordinator Office Hours:** By appointment

**Teaching Staff:**
  - Prof Oded Navon
  - Dr. Ariel Haimann
Course/Module description:
The course consists of a few meetings and a three-day excursion. In the excursion we will study volcanic phenomena in the Golan Heights and the Eastern-Galilee. In the Golan we will visit basaltic flows and scoria and tuff cones of Pliocene and Pleistocene age, study volcanic phenomena and the stratigraphy and geochemistry of rocks. In the Eastern-Galilee we will meet older rocks of Miocene to Pliocene ages and study the lower part of the volcanic section, including dykes and the inner part of a volcanic conduit. We will discuss the chemistry of the basalts, their sources and the connection between the volcanism and the tetonic processes along the Dead Sea Transform Fault.

Course/Module aims:
Study the principles of volcanology, introducing the various volcanic structures and their identification in the field, familiarity with the volcanic cross section of northern Israel

Learning outcomes - On successful completion of this module, students should be able to:
Familiarity with the principles of volcanology and ability to identify volcanic structure in the field. Familiarity with the volcanic cross section of northern Israel

Attendance requirements(%):
Excursion + 50% of the lectures

Teaching arrangement and method of instruction: Frontal lectures and a three day excursion. Final exam and a short paper.

Course/Module Content:
During the excursion we will focus on the following subjects:
A. The source of the basalts
B. Petrology and petrography of volcanic rocks
C. Volcanology
D. The volcanism of North-East Israel.
The main focus will be on the last two topics.

Required Reading:
Shaanan, U., Porat, N., Navon, O., Weinberger, R., Calvert, A. and Weinstein, Y.,
+ the excursion in Nahal Tavor (un Hebrew)

Additional Reading Material:

Course/Module evaluation:
End of year written/oral examination 90 %
Presentation 0 %
Participation in Tutorials 0 %
Project work 10 %
Assignments 0 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information:
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