COURSE DETAIL

CURRENT CRUSTAL MOVEMENTS
Country Iceland
Host Institution University of Iceland
Program(s) University of Iceland
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Earth & Space Sciences
UCEAP Course Number 116
UCEAP Course Suffix
UCEAP Official Title CURRENT CRUSTAL MOVEMENTS
UCEAP Transcript Title CRUSTAL MOVEMENTS
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description

The subject of the course is active tectonic movements with emphasis on processes currently active in Iceland. Theory of plate tectonics, plate velocity models, both relative and absolute. Elastic and ductile behaviour of rocks in the crust and mantle. Brittle fracturing. Plate boundary deformation. Rifts and rifting structures. Transcurrent faulting and associated structures. Earthquakes and faulting. Measuring crustal movements, GPS-geodesy, levelling, SAR-interferometry, tilt- and strainmeters. A one-day field project is carried out in an active area. Additionally, one day field trip to the plate boundary areas of SW-Iceland. This course is only for exchange students.

Language(s) of Instruction
English

Host Institution Course Number
JEÐ505G

Host Institution Course Title
CURRENT CRUSTAL MOVEMENTS

Host Institution Course Details
https://ugla.hi.is/kennsluskra/index.php?tab=nam&chapter=namskeid&id=09248120226

Host Institution Campus

Host Institution Faculty
Faculty of Earth Sciences/Engineering and Natural Sciences

Host Institution Degree

Host Institution Department

Course Last Reviewed
2023-2024

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