EARTHQUAKE ENGINEERING RESEARCH CENTRE
UNIVERSITY OF ICELAND

UNIVERSITY CENTRE
OF SOUTH ICELAND

Earthquake Engineering and Engineering Seismology

International Graduate Summer Course in Iceland (7.5 ECTS)

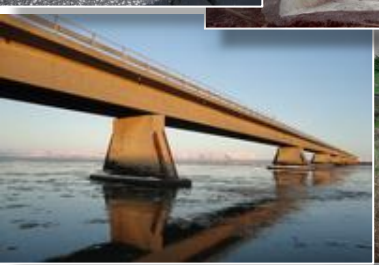
Earthquakes, their nature, characteristics, and effects on the man-made environment

30 May – 21 June 2013

Application deadline is 8 March 2013






- The course deals with the nature and characteristics of strong earthquakes and their intense ground motions causing damage. Earthquake source processes, seismic wave propagation, wave amplification due to local site conditions, and structural response due to seismic waves are key elements of the course.
- The course consists of: (i) lectures, (ii) hands on projects and (iii) *classroom-on-wheels*, which is an educational field-trip that aims at participants experiencing first-hand the dynamic Icelandic nature with focus on earthquake zones and urban areas exposed to earthquake faults and earthquake strong-motion.
- Participants will attain knowledge and understanding of the context as well as core functions of earthquake source modelling, earthquake strong-motion modelling, and modelling structural earthquake effects, including aspects of Eurocode 8. The students will also learn practical skills in strong-motion and structural monitoring via the ICEARRAY experimental strong-motion arrays in both South and Northern Iceland.
- The classroom-on-wheels will be a four-day trip, focusing on all aspects of earthquake engineering concern regarding the town of Husavik, North Iceland, that is located directly on the largest transform fault in Iceland.
- The course is tailor-made for civil engineering students but is also suited for mathematically oriented geoscience students.

Apply now at: **www.earthquake.is**

The course is partly sponsored by the European project "**Urban Prevention Strategies using Macroseismic and Fault sources**" **(UPStrat-MAFA)**
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