COURSE DETAIL

REFLECTION SEISMICS AND WELL LOGGING

Country

Denmark

Host Institution

Aarhus University

Program(s)

Aarhus University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Earth & Space Sciences

UCEAP Course Number

117

UCEAP Course Suffix

UCEAP Official Title

REFLECTION SEISMICS AND WELL LOGGING

UCEAP Transcript Title

REFLECTION SEISMICS

UCEAP Quarter Units

8.00

UCEAP Semester Units

5.30

Course Description

This course includes a theoretical and practical introduction to the reflection seismic and acoustic method and to interpretation of geophysical well logs and geotechnical measurements. Teaching consists of integrated lectures and exercises and a one-day fieldtrip with the research vessel Aurora. Lectures include: acquisition and processing of reflection seismic data and other acoustic data; the physical principles of geophysical well logs and geotechnical measurements; the workflow in an integrated interpretation. The theoretical introduction is succeeded by interpretation of seismic data and qualitative and quantitative interpretation of well logs and geotechnical measurements and how such data are used for analyzing the geological structure and development of both shallow and deep sediments with focus on the industrial applications and the green transition.

Language(s) of Instruction

English

Host Institution Course Number

535171U003

Host Institution Course Title

REFLECTION SEISMICS AND WELL LOGGING

Host Institution Campus

Host Institution Faculty

Natural Sciences

Host Institution Degree

Bachelor

Host Institution Department

Geoscience

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