COURSE DETAIL

BASINS AND RESERVOIRS
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 118
UCEAP Course Suffix
UCEAP Official Title BASINS AND RESERVOIRS
UCEAP Transcript Title BASINS & RESERVOIRS
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description

This course introduces the formation and geological evolution of sedimentary basins in order to understand the spatial distribution of different units and the exploitation of the subsurface. The course includes lectures and practicals in basin forming processes with focus on the relation between subsidence (including faults and saltstructures) and deposition of different reservoirs in time and space; the use of reservoirs with respect to drinking water production, CCS, geothermal energy, heat storage and the formation/production of fossil fuel; introducing geotechnical methods and the link to geological problems; and carbon cycles. Different methods for analyzing basins and reservoirs are also introduced, including reflection seismics, well logging, organic geochemistry, geotechnical measurements, and thermal evolution (modelling).

Language(s) of Instruction
English

Host Institution Course Number
535171U007

Host Institution Course Title
BASINS AND RESERVOIRS

Host Institution Course Details
https://kursuskatalog.au.dk/en/course/130389/Basins-and-Reservoirs

Host Institution Campus
Aarhus

Host Institution Faculty
Natural Sciences

Host Institution Degree
Bachelor

Host Institution Department

Geoscience

Course Last Reviewed
2025-2026

Print