

COURSE DETAIL

HYDROPOWER PLANTS

Country

Iceland

Host Institution

University of Iceland

Program(s)

University of Iceland

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Civil Engineering

UCEAP Course Number

138

UCEAP Course Suffix**UCEAP Official Title**

HYDROPOWER PLANTS

UCEAP Transcript Title

HYDROPOWER PLANTS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

The course provides technological insights into hydropower harnessing, with special emphasis on Icelandic conditions. Topics include hydropower potential, technically feasible hydropower, main structural components in a hydropower plant, structural design of hydropower plants, both underground (tunnels) and above ground (dams, spillways), regulations, environment, health and safety considerations over life cycle of plant, ice and sedimentation, hydro- and electromechanical components, electricity production, cost analysis of main structures and equipment, and feasibility of the power plant.

Language(s) of Instruction

English

Host Institution Course Number

UMV605M

Host Institution Course Title

HYDROPOWER PLANTS

Host Institution Course Details

<https://ugla.hi.is/kennsluskra/index.php?tab=nam&chapter=namskeid&id=7027652026...>

Host Institution Campus

Host Institution Faculty

Faculty of Civil and Environmental Engineering

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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