HFM

- **Hydropower is the energy of the future**
- **The hydropower industry is in need of qualified young professionals and lateral entrants**

With this internet-based distance-learning study programme the Graz University of Technology offers a special training in aiming at a further enlargement and deepening of the professional education in the field of hydropower engineering and providing branch-related vocational training for experienced employees. The content of the curriculum has been chosen by a highly 'operator-based' board of top professionals and covers all aspects of hydropower engineering.

Prof. Dr. Helmut Jaberg,
Graz University of Technology
Scientific director of the study programme
Head of the HFM Institute

Team HFM
participants and lecturers of the 2nd programme

SCIENCE ▪ PASSION ▪ TECHNOLOGY

TU Graz
Graz University of Technology

Degree / Title
Academic Hydropower Engineer
Master of Engineering (MEng) – Hydropower
Duration
4 semesters (Academic Hydropower Engineer)
5 semesters (Master of Engineering – Hydropower)
Location
Graz University of Technology - attendance event week, distance-learning
Fees (excl. of VAT)
Euro 17.500 (Academic Hydropower Engineer)
Euro 19.500 (Master of Engineering – Hydropower)
Enrollment
Deadline: February 2018
Start: March 2018
Contact
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Detailed information
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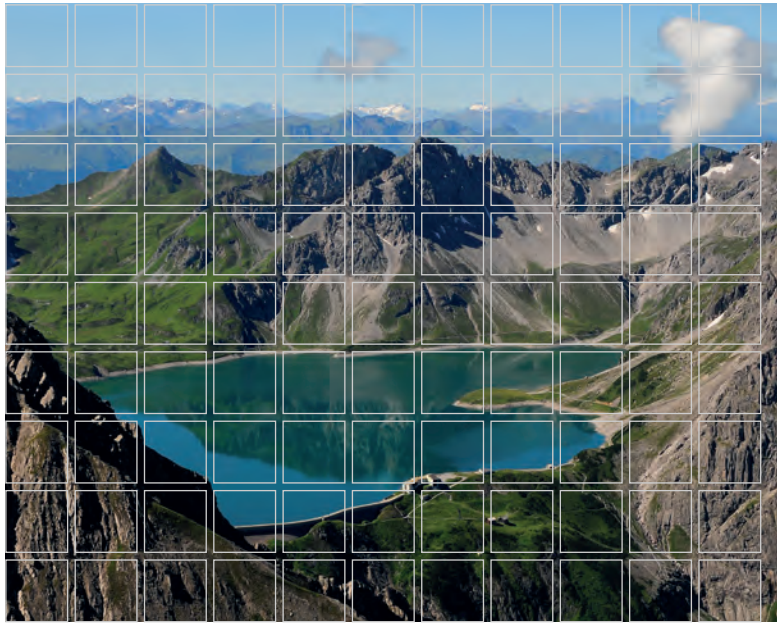
HFM
Institute for Hydraulic Fluid Machinery TU GRAZ

master of hydropower engineering
POWERED BY HFM

SCIENCE ▪ PASSION ▪ TECHNOLOGY

TU Graz
Graz University of Technology



Master of Engineering Programme
University Certificate Programme
Hydropower Management

extra-occupational
part-time
distance-learning

LIFE LONG LEARNING

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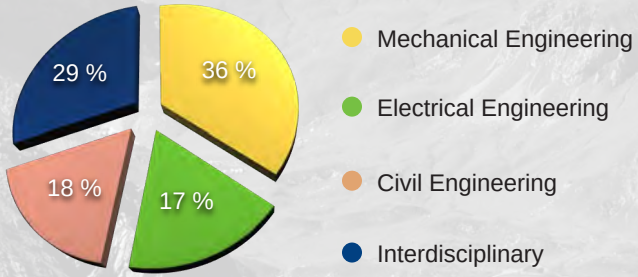
Hydropower is the Energy of the Future

Contents and Main Focus

This study programme meets the growing demand for qualified technicians in the field of hydropower – a branch becoming more and more export oriented – and aims at providing participants with profound branch-related technical as well as interdisciplinary know-how at the interface of sustainability, ecology and environmental protection.



Participants shall comprehend the total scope of **knowledge required by the hydro power industry** and thus learn to conceive water power as a complete and comprehensive system. For this purpose, the three main fields of science – **mechanical engineering, electrical engineering and civil engineering** – have been joined in one programme providing knowledge according to the state-of-the-art.

Teaching and Learning Structure

Essentially, the programme consists of **distance-learning correspondence courses** based on excellent study material which guarantees fast and successful learning. Furthermore one attendance event week per semester is scheduled. These attendance events aim at imparting complex factual knowledge to the participants on-site in power plants. By means of practical examples students get a clear and realistic insight into the subjects taught and the processes involved.

Dipl.-Ing., M.Sc., B.Sc.

Graduates of universities or universities of applied sciences with 3 years of professional experience

→ master of hydropower engineering – 5 semesters

Graduates of secondary schools (of technology) with at least 5 years of professional experience

Foremen with at least 8 years of professional experience

→ academic hydropower engineer – 4 semesters

In addition, various workshops as well as **group work and practical projects**, i.e. the preparation of approval documents and/or location studies, enable participants to understand and to apply the theoretical knowledge provided.

Apart from the courses held by **university professors**, special practice-oriented contents is provided by **renowned lecturers** representing the complete scope of the **hydro power branch** (manufacturers, operators and planners).

Targets

Graduates of this study programme dispose of a comprehensive and well-grounded knowledge in the field of waterpower and are **able to plan water power plants as well as to assess existing ones**. They are competent contact persons for all aspects of waterpower and provide the necessary expertise for inspection or maintenance work, development and application tasks as well as to specify their necessity.

Career Opportunities

Possible future fields of work for graduates are planning, consulting and in particular **management positions** in **hydro power companies** having a demand for such knowledge. Furthermore, graduates are also apt for **executive positions in authorities**.

Partners

VATTENFALL

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