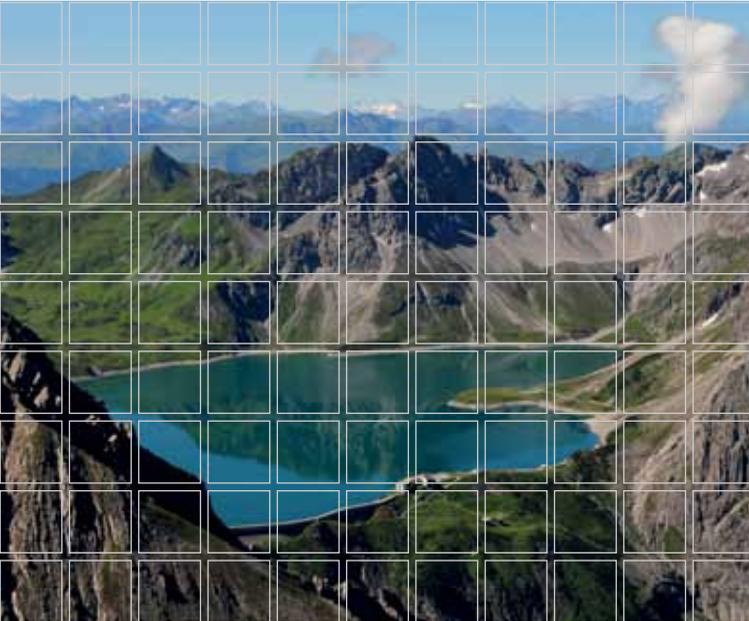


SCIENCE • PASSION • TECHNOLOGY



- ▶ **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*

Study programme Hydropower

Extra-occupational
distance-learning



Team HFM, participants and lecturers of the 1st programme

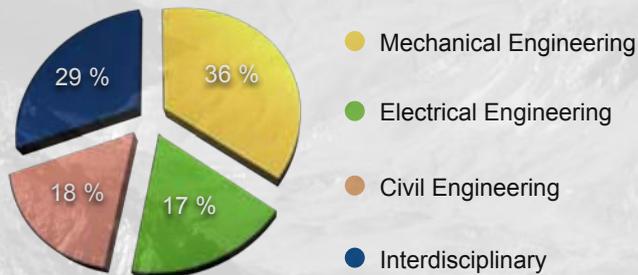


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Hydropower is the Energy of the Future

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, 2 to 6 attendance events per semester are scheduled – blocked on weekends (Friday/Saturday). 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).



SCIENCE ▪ PASSION ▪ TECHNOLOGY

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



Vorarlberger Illwerke AG



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,
excursions to hydro power plants, e-learning

Fees (excl. of VAT)

€ 17.500 (Academic Hydropower Engineer)
€ 19.500 (Master of Engineering – Hydropower)

- 5%
until 30.11.

Enrolement

Deadline: February 1st, 2015
5% discount for registrations until November 30th, 2014
Start: March 6th, 2015

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Institute for Hydraulic Fluid Machinery TU GRAZ

