<table>
<thead>
<tr>
<th><strong>Module number</strong></th>
<th><strong>Module name</strong></th>
<th><strong>Professor in charge</strong></th>
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<td>Hydromechanics</td>
<td>Prof. Pohl</td>
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**Contents and qualification aims**

Starting with the physical characteristics of water the hydrostatics and subsequent the mainly steady hydrodynamics will be discussed with emphasis on the principles of conservation of energy, mass and momentum, pipe hydraulics, open channel hydraulics.

The aim of qualification is to answer hydromechanical questions in engineering. This means:

(i) Identification of hydromechanical problems in engineering and
(ii) its quantitative solution for dimensioning and design of hydraulic structures and devices. Application of the results also to scientific problems

**Teaching form**

2 hours a week lectures,
1 hour a week tutorials

**Pre-requisite of attendance**

knowledge in physics, higher mathematics

Literature:


**Usage**

The modul is a mandatory module and especially designed for students with a first degree in environmental sciences.

**Pre-requisite to achieve credit points**

The credit points are earned if the student passes the module exam. The module exam is a written exam (90 minutes).

**Credit points and marks**

The module earns 5 cr. The module mark is identical to the exam mark.

**Frequency of the module**

The module is offered each winter semester.

**Work load**

The student’s work load is 150 hours.

**Duration of the module**

The module is finished in one semester.