<http://www.ntnu.edu/studies/phvann>

Faculty of Engineering Science and Technology

**PhD in Hydraulic and Environmental Engineering**

The PhD-program in Hydraulic and environmental engineering is normed to 180 ECTS points (3 years). The final content of the study will have to be decided in cooperation beteen the candidate, the supervisor and the department depending on the area of research and the priorities of the candidate.  
  
Research areas, to which the PhD-study may be oriented, are listed below:  
  
**Hydraulic engineering**

* Flood analysis and flood control
* Sediment handling
* Run off prognosis
* Snow hydrology and ice problems in rivers
* Environmental impact and river regulation and control
* Hydraulic conditions in rivers
* Hydraulic conditions in hydropower plants

**Water and wastewater engineering**

* Storm water technology
* Pipe technology
* Urban systems analysis
* Corrosion control
* Environmental hygiene
* Drinking water treatment
* Wastewater treatment
* Sludge handling

**See also:** [**PhD courses**](http://www.ntnu.edu/ivm/phdcourses)

**PhD courses**

The deparment offers the following PhD courses.

|  |  |
| --- | --- |
| **Course** | **Title** |
| [VM8104](http://www.ntnu.edu/studies/courses/VM8104) | Topics in Hydroinformatics |
| [VM8105](http://www.ntnu.edu/studies/courses/VM8105) | Hydrology, Advanced Course |
| [VM8106](http://www.ntnu.edu/studies/courses/VM8106) | Hydropower System Simulation |
| [VM8200](http://www.ntnu.edu/studies/courses/VM8200) | Advanced Water and Wastewater Treatment |
| [VM8201](http://www.ntnu.edu/studies/courses/VM8201) | Sludge Treatment and Disposal |
| [VM8202](http://www.ntnu.edu/studies/courses/VM8202) | Urban Storm Water Management PhD |
| [VM8203](http://www.ntnu.edu/studies/courses/VM8203) | Advanced Water Chemistry |

Additional information about a [PhD in Hydraulic and Environmental Engineering](http://www.ntnu.edu/studies/phvann).