'Ensuring a sustainable & functioning society'

MASTER'S PROGRAMME IN WATER & ENVIRONMENTAL ENGINEERING

Aalto University

Water and environmental engineering is about making the world work.

With limited natural resources and an increasing demand for water, food and energy, we look at practical ways to develop our society in a sustainable manner.

Three study themes: Water Resources, Water and Wastewater, Water & Development

Strong technical basis combined with sound understanding of the broader societal context

Making use of the students' diverse backgrounds & encouraging individualised study paths

Student-centered learning: group work, personal portfolio, mentoring

Water & environmental engineering in its broad sense: connection to research, planning & management

- Strong technical basis and computational skills
- Cross-sectoral approach with link to practice

Our water & environmental engineering graduates are enthusiastic professionals with solid problem-solving skills

- Readiness for problem-solving
- Answering society's practical needs

- Professional identity
- Life-wide learning

- Sustainable development
- Functioning society

TOTAL 120 ECTS

COMMON COURSE 15 ECTS

ADVANCED COURSES 45 ECTS

MAJOR 60 ECTS

ELECTIVE STUDIES 30 ECTS

MASTER'S THESIS 30 ECTS

ADVANCED COURSES

Select 45 credits across three study themes to create an individual specialisation, and strengthen it with 30 credits of elective courses and your Master's Thesis

WATER RESOURCES

- Groundwater hydrology
- Environmental hydraulics
- Hydrological modelling
- Surface water resources

WATER & DEVELOPMENT

- Sustainable built environment
- Sustainable Global Technologies SGT Studio (10 ECTS)
- Water and governance
- Water and people in a changing world
- WAT Project Course
- WAT Special Course

WATER & WASTEWATER

- Urban water systems
- Design and management of water and wastewater networks
- Physical and chemical treatment of water and waste
- Modelling and control of treatment processes
- Biological treatment of water and waste

COMMON COURSE

Solid foundation for all our graduates

Water & environmental engineering (15 cr.)

In-depth introduction to the key themes and problem-solving methods in our field, through variety of group work and individual tasks.

Head of the Programme: Associate Professor Marko Keskinen
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