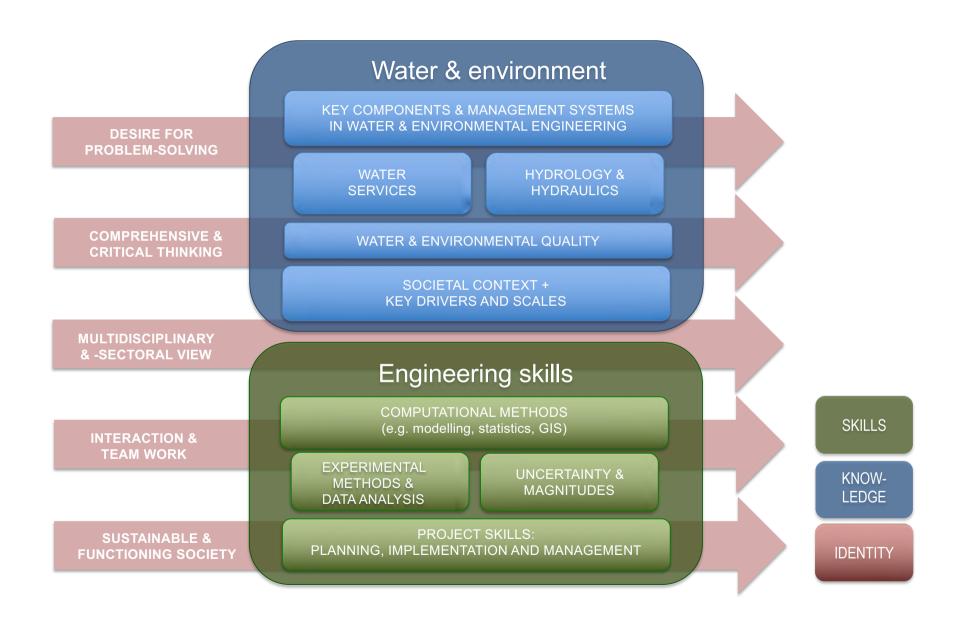


WAT COMPETENCES?

Competences and related Intended Learning Outcomes (ILOs) of Master's Programme in Water and Environmental Engineering at Aalto University, Finland



Our graduate is able to:

ILOs: knowledge

- Recognise the key components and management systems in water and environmental engineering, and understand the relevance of sustainability for the field
- 2) Understand the principles of the **hydrological cycle** and movements of water in natural and built environments
- 3) Define and differentiate the main sections of water services and environmental services, with focus on the treatment of water and waste water
- 4) Understand the key principles of water and environmental quality
- 5) Identify the **societal context** relevant to the water and environment, and comprehend the different **scales** and key **drivers** applicable to water and environmental engineering

ILOs: skills

Our graduate is able to:

- 1) Apply key computational methods related to water and environmental engineering
- 2) Understand relevant **experimental methods and data analysis** processes, including the use of data archives
- 3) Comprehend uncertainty and different orders of magnitude related to the measurements, data analysis and modeling
- 4) Recognise and analyse the main components of waterand environment-related **planning**, **implementation and management processes**, and use related basic project skills

ILOs: identity

(i.e. general working-life skills)

Our graduate:

- 1) Is motivated and has a desire for problem-solving
- 2) Thinks in a comprehensive and critical manner about his/her work and field
- 3) Maintains a multidisciplinary and -sectoral view related to water and environmental engineering
- 4) Is able to work as a part of a team and has relevant skills for **interaction and communication**
- 5) Promotes a sustainable and functioning society