This course is connected to the research work of the Deltas, Infrastructures & Mobility Initiative (DIMI) where integrated and holistic solutions for urgent societal problems relate to the development of vital infrastructure for water safety and smart mobility and the concept Reversed Engineering with Nature is explored.

An integrative approach, in which different disciplines like urbanism, transport and hydraulic engineering cooperate, provides the best guarantee for finding these solutions. This approach defines the teaching method and the core of the course. Students will take part on intense interdisciplinary workshops which will provide them with experience and knowledge that they will use as research input within a project in practice or a design project frame (of choice).

The main focus is on how technical data can become information and purpose to design with. The interdisciplinary approach is supported by cooperation with the urban water management and compulsory module for transport students. The student will be able to select the frame in which best develop the knowledge learn from the course.

From a project in practice with a research partner from the DIMI, a project based on the specific location proposed by the workshops, to an individual project. The course offers a set of projects in the Netherlands and internationally. In the Netherlands it is in close cooperation with municipalities, engineering offices and other research institutes. Brazil, Albania, Sweden, Italy, Switzerland, USA, Norway compose the range of countries experienced in last years.

We cooperate in this studio with landscape architecture and architectural engineering.

Related courses:
- Water management
- Transport
- Ecology and Morphodynamics in Catchments

Tutors:
- Fransje Hooimeijer
- Taneha Kuzniecow Bacchin
- Frits van Loon
- Francesca Rizzetto

Code: AR0086
Credits: 12ECTS
Location: changes
Excursion: Yes
Costs: 200-500 €

*Only for MSc2 projects

Project type: Multidisciplinary / Practice related / Approved Master 2

Architecture design project: Yes