### Description

This specialisation is meant for students who are interested in potential employment in organisations which deal with issues related to infrastructures and the environment. This specialisation is offered in cooperation with the Dutch Ministry of Infrastructure and the Environment. It offers both an introduction to the sector as well as technically oriented courses in one of the areas of interest, such as transportation, water governance or spatial development, in order to complement the Technology, Policy and Management competences.

### Job perspectives

Students who have followed this specialisation are well prepared for a career in the domain of ‘Infrastructures & Environment’. Examples of relevant employers are: the Ministry of Infrastructure and Environment or its subsidies, provinces, (larger) cities and regions, water boards, planning bureaus (PBL), research institutes (Deltares, KIWA, KIM, TNO), housing corporations, consultancy firms (Arcadis, DHV, Grontmij, Haskoning, Witteveen en Bos, Oranjewoud, RIGO, Tauw, Purple Blue) and (private) companies (Schiphol, Port of Rotterdam, ProRail, NS, KLM-Air France, Connexxion, RET, Boskalis, Strukton, BAM, Bouwfonds, Heijmans, AM).

### Courses

**SPM9160 Introduction to Infrastructure and Environmental Governance (3 ECTS)**

This is an introduction to the Infrastructure & Environment sector. The course consists of two parts: an internship of one week at the Ministry of Infrastructure & Environment and an essay related to the topic of the internship.

**Technical courses (minimum 12 ECTS)**

These are courses which are complementary to the core curriculum of the student. The student chooses a relevant theme with corresponding technical courses (in general from MSc Civil Engineering) that fit within this theme given their (track/domain) background. The themes are:

#### Water

- CIE4450 Integrated Water Management (4 ECTS)
- CIE5500 Water Laws and Organisation (3 ECTS)
- CIE5703 Urban Climate & Hydrology (5 ECTS)

#### Transport

- CIE4801 Transportation and Spatial Modelling (6 ECTS)
- CIE5811 Transport Safety (4 ECTS)
- CIE4510 Climate Change: Science & Ethics (4 ECTS)

#### Spatial/Environment

- AR1U131 Sustainable Urban Engineering of Territo (5 ECTS)
- CIE4510 Climate Change: Science & Ethics (4 ECTS)
- CIE5730 Spatial and Transport Economics (4 ECTS)
Additional information

This specialisation can be extended in order to obtain the Infrastructure and Environmental Governance Annotation. An annotation is a complementary document to your degree. In order to obtain the annotation, on top of the courses described above, you need to do a 5 EC project. This project concerns a current realistic issue from the sector. For COPAM students this can be carried out within the COSAM Design Project. In EPA and MOT the project can be carried out as an elective. There are also requirements concerning your graduation project. The graduation project is carried out externally in an Infrastructure & Environment related organisation (or internally on a relevant subject but with an external committee member).