



## Programme: Construction and civil engineering technology, 180 credits

Programme Manager: Kjell.Nero@ju.se

During the programme, engineering students within construction and civil engineering will broaden their knowledge of construction techniques, construction design and production.

**Before the industrial placement course during semester 4, the students will have taken the following courses:**

### Social planning

- Sustainability
- Legislation, players and concepts
- Physical planning

### Sketching and drawing techniques

- Reading and producing plans
- Digital modelling - BIM
- Revit

### Construction technology

- Dimensioning simple framework elements in concrete, steel and wood

### Geotechnology

- Appropriate measures in connection with groundwork and foundation work for construction objects

### The construction process

- Legal aspects
- Concepts
- Players

### Construction materials and structural engineering

- Materials
- Building physics
- Engineering

### Hydraulics and geoscience

- The composition and properties of the ground
- Dimensioning simple water and waste pipes

### Leadership and project management

- Group dynamics
- Leadership
- Project management