The master will provide students with shared theoretical and practically-oriented knowledge in the field of water engineering and water management.

Students in the program should acquire the ability to design water engineering projects and to realize these projects efficiently in line with the principles of sustainability (integration of energy efficiency and mass/energy valorisation).
Semester 1:
Scientific basis, cultural integration, linguistics and methodology.

Semester 2:
Core courses on waste water treatment and waste water management including energy and mass valorisation.

Semester 3:
Water production and water resource management including desalination and water reuse.

Semester 4:
Graduation Internship [5-6 months] in academic Laboratories or in Industrial companies.

The first semester is a transition semester with 80h of French courses. If necessary or wished, additional Intensive French courses are available in the summer.

**Job Opportunities**
Job in industries in the environmental sector (water/air/waste treatment eco-industries) or in various other fields (chemistry, petrochemistry, food, pharmacy and cosmetics, specialised materials) to take into account environmental constraints (eco-processes).

**Program Content**

**Semester 1:**
Scientific basis, cultural integration, linguistics and methodology.

**Semester 2:**
Core courses on waste water treatment and waste water management including energy and mass valorisation.

**Semester 3:**
Water production and water resource management including desalination and water reuse.

**Semester 4:**
Graduation Internship [5-6 months] in academic Laboratories or in Industrial companies.

The fisrt semester is a transition semester with 80h of French courses. If necessary or wished, additional Intensive French courses are available in the summer.

**Required Documents:**
Scientific background:
- Bachelor degree in Chemical Engineering or Fluids Mechanics
- or Environmental Engineering
- or Civil Engineering

**Scholarship Possibilities:**
- Scholarships from the institution (based upon eligibility and acceptance)
- Scholarships from the French government (Eiffel, Embassies,...)
- Scholarships from the European Union (Erasmus, Leonardo, etc.),
- Scholarships from French regional authorities (cities, Regions, etc.)
- Stipends for the internships in academic labs or industrial companies.

**Research Institutions & Industrial Partners**
Industrial applications of the program are related to desalination, drinking water production, waste water treatment, water reuse, industrial water treatment, eco-conception of processes.

INSA is member of the national cluster of Excellence WATER and of the regional cluster of Water, Sensor and Membrane. The laboratories involved in this master are ranked A+, a plus for future students whose education will be closely linked to the research.