

MSc. of Water Resources and Management

Year One

Fall Semester

Resources & modeling 1

ECTS 9

Water cycle and hydrology

Statistics in Hydrology

Water and climate evolution

Resources & modeling 2

ECTS 9

Free-surface hydraulics

Groundwater modeling

Near-surface water exploration

Transversal skills 1

ECTS 6

Geographical Information Systems

Field work

Management 1

ECTS 6

Societal issues and challenges

Water policy and law

Year One

Spring Semester

Resources & modeling 3

ECTS 9

Methods of numerical modeling

Hydrological modeling

Geochemical modeling

MSc. of Water Resources and Management

Quality & Engineering 1

ECTS 9

Environmental geosciences
Water sampling and analyses
Water supply and sanitation

Transversal skills 2

ECTS 6

Research project
Soil and water lab-Practical work

Management 2

ECTS 6

Water economics
Water and agriculture

Year Two

Fall Semester

Quality & Engineering 2

ECTS 9

Contaminants and waste-water treatment
Ecohydrology
Biodiversity and Ecosystem services

Transversal skills 3

ECTS 9

Satellite data and applications
Artificial Intelligence applied to hydrology
Communication techniques

MSc. of Water Resources and Management

Management

ECTS 12

Sustainable water resources Management and planning

Urban water management

Project management

Environmental and risk management

Year Two

Spring Semester

Internship

ECTS 30

Research or industry internship