

# MSc IN SCIENCE AND INTEGRATED MANAGEMENT OF WATER

1st year (60 ECTS)

1st Semester

2nd Semester

**COMMON COMPULSORY COURSES (30 ECTS)**

**Line of specialization 1:**

Water Resources in the Water Cycle (20 ECTS)

**Line of specialization 2:**

Uses and Treatment of Water (20 ECTS)

**Optional courses  
(10 ECTS)**

2nd year (60 ECTS)

3rd Semester

4th Semester

**COMMON COMPULSORY COURSES (40 ECTS)**

**Line of specialization 1:**

Water Resources in the Water Cycle (5 ECTS)

**Line of specialization 2:**

Uses and Treatment of Water (5 ECTS)

**Optional courses  
(15 ECTS)**

# MSc IN SCIENCE AND INTEGRATED MANAGEMENT OF WATER

1st Year – 1st Semester (30 ECTS)

## COMMON COMPULSORY COURSES

### Line 1: Water Resources

The Water Cycle and its Management (5 ECTS)

Water Economics and Regulation (5 ECTS)

Methods for the Physical and Chemical Analysis of Water and Common Contaminants (5 ECTS)

Biology and Geology for the Study of Water Systems (5 ECTS)

Climatology and Atmospheric Water (5 ECTS)

### Line 2: Uses and Treatment of Water

Water Quality for Different Uses (5 ECTS)

Biological Treatment (5 ECTS)

### OPTIONAL COURSES (choose 1)

Aquatic Ecosystems and Continental Waters in the Mediterranean (5 ECTS)

Socioeconomic Aspects and Taxation of Water (5 ECTS)

# MSc IN SCIENCE AND INTEGRATED MANAGEMENT OF WATER

1st Year– 2nd Semester (30 ECTS)

## COMMON COMPULSORY COURSES

Public and Private Management of Water (2,5 ECTS)

Geographical Information Systems and Statistical Analysis (5 ECTS)

Communication and Dissemination in the Field of Water(2,5 ECTS)

Institutional or Company Placement I (5 ECTS)

## Line 1: Water Resources

Surface Hydrology (5 ECTS)

Hydrogeology (5 ECTS)

## Line 2: Uses and Treatment of Water

Water Purification Treatments (5 ECTS)

Healthcare Aspects (5 ECTS)

## OPTIONAL COURSES (choose 1)

Variability, Climate Change and Flood Risk (5 ECTS)

Water in Agriculture, Livestock Farming and Aquaculture (5 ECTS)

# MSc IN SCIENCE AND INTEGRATED MANAGEMENT OF WATER

2nd Year – 1st Semester (30 ECTS)

## COMMON COMPULSORY COURSES

Physical-Chemical,  
Biological & Toxicological  
Water Analyses (5 ECTS)

Project Management and  
Environmental Impact on  
the Water Vector (5 ECTS)

## Line 1: Water Resources

Marine Waters (5 ECTS)

## Line 2: Uses and Treatment of Water

Non-Conventional  
Resources (5 ECTS)

## OPTIONAL COURSES (choose 1)

Field School (5 ECTS)

Groundwater and Surface Water  
pollution (5 ECTS)

Hydrogeophysics and Design of Water  
Catchments (5 ECTS)

Water Supply in Industry  
(5 ECTS)

Water Geostrategy  
(5 ECTS)

Decontamination of Continental Waters  
(2,5 ECTS)

Water and Energy (2,5 ECTS)

# MSc IN SCIENCE AND INTEGRATED MANAGEMENT OF WATER

2nd Year – 2nd Semester (30 ECTS)

**COMMON COMPULSORY  
COURSES**

Line 1: Water Resources

Line 2: Uses and  
Treatment of Water

**OPTIONAL COURSES  
(choose 1)**

Institutional or Company  
Placement II (5 ECTS)

Final Project (25 ECTS)