



**MASTER (LM) DEGREE COURSE IN**

**ENVIRONMENTAL ENGINEERING**

**Study track ENVIRONMENT AND SUSTAINABILITY**

*Study programme for students enrolled in the academic year 2025-2026*

1st YEAR	
<b>MANDATORY UNITS</b>	<b>CREDITS</b>
Ecotoxicology and Health Risk Assessment	<b>6</b>
Remediation of contaminated sites	<b>9</b>
Environmental Economics and Resource Valuation	<b>6</b>
Water and wastewater treatment	<b>12</b>
Circular and sustainable waste management	<b>9</b>
Renewable energy techniques	<b>6</b>
<b>OTHER MANDATORY ACTIVITIES (*)</b>	
Italian language A2	<b>3</b>
English language B2 (productive skills)	<b>3</b>
2nd YEAR	
<b>MANDATORY UNITS</b>	<b>CREDITS</b>
Environmental geotechnics	<b>9</b>
Air pollution control	<b>6</b>
Recycling and reuse of raw materials	<b>9</b>
Project and design in Circular Environmental Engineering	<b>6</b>
Environmental impact and life cycle assessment	<b>6</b>
<b>12 ADDITIONAL FREE-CHOICE CREDITS</b>	
Environmental Sustainability metrics	<b>6</b>
Strategic environmental planning	<b>6</b>
Underground fluids, energy and environment	<b>6</b>
Hydropower and Marine Renewable Energy	<b>6</b>
Geotechnical design in land protection	<b>6</b>
International environmental law	<b>6</b>

Environmental electrical science	6
Environmental hydraulics	6
Environmental geophysics	6
Big Data Analytics & Data Mining for Engineers	6
Design of innovative processes and plants for industrial waste treatment	6
Elements of numerical modelling for the environment	6
Geothermal systems for a sustainable environment	6
<b>FINAL THESIS/DISSERTATION</b>	<b>21</b>

**ANY FURTHER NOTES**

(\*) LANGUAGE SKILLS: Compulsory one of the two: native Italian speakers students must take ENGLISH LANGUAGE B2, other students must take ITALIAN LANGUAGE A2.  
Attendance at teaching activities is not compulsory but strongly recommended.

**MASTER (LM) DEGREE COURSE IN**

**ENVIRONMENTAL ENGINEERING**

**Study track LAND PLANNING AND MANAGEMENT**

*Study programme for students enrolled in the academic year 2025-2026*

1st YEAR	
MANDATORY UNITS	CREDITS
Remediation of contaminated sites	9
Environmental Economics and Resource Valuation	6
Land surveying and Geographical Information System (GIS)	9
Renewable energy techniques	6
Sustainable mobility	6
Seismic design of structures	9
<b>OTHER MANDATORY ACTIVITIES (*)</b>	
Italian language A2	3
English language B2 (productive skills)	3

2nd YEAR	
MANDATORY UNITS	CREDITS
Environmental geotechnics	<b>9</b>
Structural design for land protection	<b>9</b>
Regional planning	<b>6</b>
Environmental impact and life cycle assessment	<b>6</b>
Landscape protection and design	<b>9</b>
<b>12 ADDITIONAL FREE-CHOICE CREDITS</b>	
Environmental Sustainability metrics	<b>6</b>
Strategic environmental planning	<b>6</b>
Underground fluids, energy and environment	<b>6</b>
Hydropower and Marine Renewable Energy	<b>6</b>
Geotechnical design in land protection	<b>6</b>
International environmental law	<b>6</b>
Environmental electrical science	<b>6</b>
Environmental hydraulics	<b>6</b>
Environmental geophysics	<b>6</b>
Big Data Analytics & Data Mining for Engineers	<b>6</b>
Design of innovative processes and plants for industrial waste treatment	<b>6</b>
Elements of numerical modelling for the environment	<b>6</b>
Geothermal systems for a sustainable environment	<b>6</b>
<b>FINAL THESIS/DISSERTATION</b>	<b>21</b>

#### ANY FURTHER NOTES

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**MASTER (LM) DEGREE COURSE IN****ENVIRONMENTAL ENGINEERING****Study track SOIL PROTECTION AND WATER MANAGEMENT***Study programme for students enrolled in the academic year 2025-2026*

<b>1st YEAR</b>	
<b>MANDATORY UNITS</b>	<b>CREDITS</b>
Geology and geochemistry	6
Environmental Fluid Mechanics	6
River Engineering	9
Water and wastewater treatment	12
Seismic design of structures	9
Coastal management and protection	6
Geomatics methodologies for land monitoring	6
<b>OTHER MANDATORY ACTIVITIES (*)</b>	
Italian language A2	3
English language B2 (productive skills)	3
<b>2nd YEAR</b>	
<b>MANDATORY UNITS</b>	<b>CREDITS</b>
Environmental geotechnics	9
Water resources management	9
Groundwater hydrology	6
Modelling and control of environmental systems	6
<b>12 ADDITIONAL FREE-CHOICE CREDITS</b>	
Environmental Sustainability metrics	6
Strategic environmental planning	6
Underground fluids, energy and environment	6
Hydropower and Marine Renewable Energy	6
Geotechnical design in land protection	6
International environmental law	6
Environmental electrical science	6

Environmental hydraulics	6
Environmental geophysics	6
Big Data Analytics & Data Mining for Engineers	6
Design of innovative processes and plants for industrial waste treatment	6
Elements of numerical modelling for the environment	6
Geothermal systems for a sustainable environment	6
<b>FINAL THESIS/DISSERTATION</b>	<b>21</b>

**ANY FURTHER NOTES**

(\*) LANGUAGE SKILLS: Compulsory one of the two: native Italian speakers students must take ENGLISH LANGUAGE B2, other students must take ITALIAN LANGUAGE A2.  
Attendance at teaching activities is not compulsory but strongly recommended.

**MASTER (LM) DEGREE COURSE IN**

**ENVIRONMENTAL ENGINEERING**

**Study track ENVIRONMENTAL ENGINEERING IN COOPERATION WITH ENSTP**

*Study programme for students enrolled in the academic year 2025-2026*

<b>1st YEAR</b>	
<b>MANDATORY UNITS</b>	<b>CREDITS</b>
Remediation of contaminated sites	9
Geology and geochemistry	6
Environmental geotechnics	6
Wastewater treatment	6
Solid waste management	9
Design of structures for environmental protection	9
<b>OTHER MANDATORY ACTIVITIES</b>	
Advanced English	3

2nd YEAR	
<b>MANDATORY UNITS</b>	<b>CREDITS</b>
Air pollution	<b>6</b>
Sustainable and renewable resources	<b>6</b>
Modelling and control of environmental systems	<b>6</b>
River Engineering	<b>9</b>
Environmental impact assessment and LCA	<b>6</b>
<b>OTHER MANDATORY ACTIVITIES</b>	
Research methodology	<b>3</b>
<b>15 ADDITIONAL FREE-CHOICE CREDITS</b>	
GIS and Cartography	<b>6</b>
Ecotoxicology	<b>6</b>
Water supply treatment	<b>6</b>
<b>FINAL THESIS/DISSERTATION</b>	<b>21</b>

**ANY FURTHER NOTES**

The study track "Environmental Engineering in cooperation with ENSTP" is reserved only for students enrolled at the Ecole Nationale Supérieure des Travaux Publics (ENSTP) in Yaoundé Cameroon.