

Curriculum

Master Program in Environmental Engineering and Management



First Semester			
Code	Name of the lesson	Required/Elective	Credit
MIF-B01	Modern problems of ecology	Required Courses	6
MIF-B02	History and methodology of ecology	Required Courses	6
MIF-B05A	Waste Prevention	Required Courses	6
MIF-B05B	Environmental planning	Required Courses	6
	Elective Courses	Required Courses	6
Second Semester			
Code	Name of the lesson	Required/Elective	Credit
MIF-B05C	Resource Economics	Required Courses	6
MIF-B05D	Waste processing system	Required Courses	6
MIF-B05E	Waste water management	Required Courses	6
	Elective Courses	Required Courses	6
	Elective Courses	Required Courses	6
Third Semester			
Code	Name of the lesson	Required/Elective	Credit
MET-B01	Individual work	Required Courses	30
MET-B02	Thesis	Required Courses	30

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Elective Courses			
Code	Name of the lesson	Required/Elective	Credit
MIF-B04	Integrated Waste Management	Elective Courses	6
MIF-B04	Industrial Waste Management	Elective Courses	6
MIF-B04	Waste management organizations	Elective Courses	6
MIF-B04	Household Waste Management	Elective Courses	6
MIF-B04	Soil recultivation	Elective Courses	6
MIF-B04	Agricultural waste management	Elective Courses	6

Profile of the Programme

The MSc Environmental Engineering program aims at educating young people who will be experts in their field, who are dynamic, culturally engaged, active, research-oriented and capable of finding solutions to present and future environmental problems. Besides working as researchers in their fields, graduates of this program can work, in municipal water and wastewater plants, environment-related firms, enterprises and organizations, or within the Ministry of Environment and Forestry and its related branches.

Access to Further Studies

May apply to doctorate programmes in any field or proficiency in fine arts programmes.

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Field of Qualifications

- 1 Complete and apply knowledge based on limited or deficient data through scientific methods; integrate knowledge from different disciplines.
- 2 Have extensive knowledge on recent techniques and methods used in engineering, and the constraints of these techniques and methods
- 3 Have access to advanced knowledge in the field of engineering through scientific research; evaluate, interpret and apply knowledge.
- 4 Are aware of new and developing applications in the profession; examine and learn these applications, when required.
- 5 Define problems related with engineering; and develop methods for their solution, and use innovative methods in problem solving.
- 6 Generate new and/or original ideas and methods; and develop innovative solutions in system, component or process designs.
- 7 Design and conduct analytical, modeling and experiment-based research; solve and interpret complex problems encountered in this process.
- 8 Assume the leadership role in multi-disciplinary teams; produce solutions in complicated situations and take responsibility
- 9 Establish oral and written communication in a foreign language at minimum B2 level, as defined by the European Language Portfolio.
- 10 Report systematically and clearly in written or oral form the processes and results of their research/work in national and international settings
- 11 Describe social and environmental aspects of engineering applications.
- 12 Comply with social, scientific and ethical values in the process of collecting, interpreting and reporting data, and in all professional activities