



MASTER'S DEGREE IN ENVIRONMENTAL AND LAND ENGINEERING

DEGREE PROGRAMME 2013/2014

Course contents are available at this [link](#)

1st year

Sem	Teaching course	SSD*	TAF*	Credits	h
Common courses					
1	Numerical Calculus and Applied Mathematics	MAT/08	C	8	80
1	Environmental Geoengineering	ING-IND/28	B	6	60
1	Applied Geophysics	GEO/11	B	6	60
1	Computer Science Lab		F	5	50
1	GIS and Geostatistics Lab		F	5	80
2	Hydrogeology	GEO/05	B	6	60
2	Environmental Hydraulics	ICAR/01	B	6	60
2	Impact Assessment and Environmental Rehabilitation	ING-IND/28	B	6	60
2	Integrated Course: Remediation and Chemical-Physical Treatment of Soils				
2	- Module: Contaminated Sites Remediation	ICAR/03	B	6	60
2	- Module: Chemical-Physical Treatment of Soils	ING-IND/29	B	6	60

2nd year

Sem	Teaching course	SSD*	TAF*	Credits	h
Common courses					
1	<i>One course among:</i> Foundations and Earth Retaining Structures	ICAR/07	C	6	60
1	Recovery of Secondary Raw Materials	ING-IND/29	C	6	60
2	Water Supply and Sewerage	ICAR/02	C	6	60
2	Geochemical characterization	GEO/09	C	6	60
2	Safety and Project Management at Construction Sites	ING-IND/28	C	6	60
Environment Curriculum					
1	Solid waste management	ICAR/03	B	9	90
1	Wastewater Treatment Plants	ICAR/03	B	9	90
2	Integrated Course: Treatment of Fluids and Waste Gases				
2	- Module: Treatment of Fluids	ING-IND/29	B	6	60
2	- Module: Treatment of Gaseous Effluents	ING-IND/25	B	6	60
Geo-engineering and Land protection Curriculum					
1	Integrated Course: Hydrogeological Protection				
1	- Module: Watershed and Stream Restoration Engineering	ICAR/02	B	6	60
1	- Module: Slope Instability and Hydrogeological Risk	GEO/05	B	6	60



1	Integrated Course: Rock Engineering - Module: Rock Mechanics	ING-IND/28	B	6	60
2	- Module: Excavation Engineering and Underground Works	ING-IND/28	B	6	60
2	Maritime Hydraulics	ICAR/01	B	6	60
<i>Regional and Urban Planning Curriculum</i>					
1	Integrated Course: Strategic Environmental Planning - Module: Environmental Planning	ICAR/20	B	6	60
1	- Module: Strategic planning	ICAR/20	B	6	60
2	Integrated Course: Georesources Planning - Module: Regional Planning of Georesources	ICAR/20	B	6	60
2	- Module: Georesources	GEO/09	C	6	60
2	<i>Choose between:</i> Photogrammetry	ICAR/06	B	6	60
2	Transportation Planning	ICAR/05	B	6	60

Additional credits to be acquired

Sem	Activity	SSD*	TAF*	Credits	h
	Elective activities ¹		D	9	
	Final Examination		E	15	

TOTAL CREDITS 120

(1) The elective activities must be consistent with the personal educational plan and they need approval by the Degree Programme Board.

***Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity