

**Curriculum
Master
Civil Engineering : Geotechnics and Environment**

	Semestre 1						
	Code	Matière	ECTS	MC	Ex.	Lab	Total
M1	MS1MEMC	Continuum Mechanics	4	15	15		30
	MS1REGG	Geotechnics and Geophysics Investigations	5	30		15	45
	MS1MERO	Rock Mechanics	4	18	12		30
	MSTERR	Earthworks	4	18	12		30
	MSQUSE	Quality - Security- Environment	5	24	21		45
	MSREDE	Various Networks and Environment	4	15	15		30
	MS1CATE	Tensor Calculus	4	15	15		30
	Total	7	30	135	90	15	240

Semestre 2						
Code	Matière	MC	Ex.	Lab	TP	Total
MS2HYBA	Dams and Hydrology	5	21	24		45
MS2DYSS	Soils and Structures Dynamics	5	21	24		45
MS2MEEF	Finite Elements Method	5	18	18	9	45
MSRSTS	Soils Reinforcement and Retaining Techniques	5	18	15	12	45
MSFSRO	Special Foundations and under Structures Works	5	12	18	15	45
MSPRTU	Bibliographic Study	4	9		36	45
						0
Total	6	29	99	99	72	270

	Semestre 3						
	Code	Matière	ECTS	MC	Ex.	Lab	Total
M2	MS3COSI	Seismic Design	5	18	18	9	45
	MS3OUST	Tunnels and Under Ground Works	5	21	24		45
	MS3SIGR	Geographic Information System and Networks	4	18	12		30
	MS3RHGM	Rheology of Geomaterials	4	18	12		30
	MS3DESO	Soil Decontamination *	4	18	12		30
	MS3GDMI	Management and Valorization of Wastes*	5	24	21		45
	MS3TEPU	Water Treatment *	4	12	12	6	30
	MS3MEMP	Porous Materials Mechanics*	4	18	12		30
	MS3INSS	Soil Structure Interaction*	5	24	21		45
	MS3SCAR	Structure and Behavior of Clays*	4	18	12		30
Total	7	31	129	111	15	255	

Semestre 4						
Code	Matière	ECTS	MC	Ex.	Lab	Total
MS4MEMO	Seminar, Internship, Research	30			300	300
						0
						0
						0
						0
						0
						0
						0
						0
Total	1	30	0	0	300	300

* : elective Courses - ECTS : European Credits Transfer and accumulation System - CM : Main Course - Ex. : Exercises - Lab : Laboratory

Total ECTS :	120
Total Hours :	1065