



ILHAM-EC

Modules and Courses of the Master in SLM

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A- Foundation Modules and courses			
Core Module	Specific courses	ECTS#	ECH##
Sustainable agro-ecosystem management	• Agroecosystems *	6	2
	• Biodiversity and Ecosystem services *	6	2
	• Advanced Land Degradation *	6	2
Geomatics and Spectroscopy	• GIS and Spatial Analysis (GIS/RS/Geostats) *	9	3
	• Advanced spectroscopy *	6	2
Bioeconomics of land management	• Economics of land degradation*	6	2
	• Biostatistical analysis *	6	2
Scientific English and project proposal Writing	• English language and proposal writing*	3	1
	• Research Methods and Scientific Communications *	3	1
Mobility Strand	Training*	12	4
Seminar in SLM	Students seminars in SLM *	3	1
Subtotal Foundation Credits		66	24

European Credit Transfer System

* Mandatory Course

Egyptian Credit Hours

Total ECTS for the Master = 120 distributed as follows: 30 ECTS for thesis research and 90 ECTS for courses.

B- Specialization Modules and courses (Select 3 courses)			
Core Module	Specific course	ECTS#	ECH##
Land Use Planning and Assessment	• Land use planning for sustainable development	6	2
	• Land evaluation (capability, suitability, productivity)	6	2
	• Climate change and food security	6	2
	• Modelling of land Use changes	6	2
	Land Use policies and legislations	6	2
Environmental Soil and Water Resources Management	• Advanced soil and water pollution and remediation	6	2
	• System approach to water management	6	2
	• Socioeconomic aspects of water resource management	6	2
	• Sustainable Soil Fertility Management	6	2
	• Alternative agricultural systems	6	2
Farming system modelling in land management	• Plant system modelling in land management	6	2
	• Animal system modelling in land management	6	2
	• Integrated Pest Management (IPM)	6	2
	• Applied Bioeconomics	6	2
	• Agricultural Waste Management	6	2
Subtotal Specializations Credits		18	6
Master Thesis	Thesis research	30	8
Seminar in SLM	Students seminars in SLM *	6	2
Total SLM Master Credits		120	38

European Credit Transfer System

Egyptian Credit Hours

* Mandatory Course

Courses Distribution by Semester for SLM Master

First Year: First Semester

ECH	ECTS	Activities	Practical	Lecture	Course
2	6	7	2	1	Biostatistical Analysis
2	6	7	2	1	Advanced Land Degradation
1	3	4	-	1	English Language and Proposal
3	9	11	2	2	Writing
2	6	7	2	1	GIS and Spatial Analysis
					Agroecosystem
10	30	36	8	7	Total

First Year: Second Semester

ECH	ECTS	Activities	Practical	Lecture	Course
2	6	7	2	1	Advanced Spectroscopy
2	6	7	2	1	Biodiversity and Ecosys. Services
1	3	4	-	1	Seminar in SLM
2	6	7	2	1	Economics of Land Degradation
1	3	4	-	1	Research Methods and Sci. Communic
8	24	29	6	5	Total

First Year: Summer Semester

ECH	ECTS	Activities	Practical	Lecture	Course
4	12	12	8	-	Mobility Strand
4	12	12	8	-	Total

Second Year: First Semester

ECH	ECTS	Activities	Practical	Lecture	Course
1	3	4	-	1	Seminar in SLM
2	6	7	2	1	Specialization Course
2	6	7	2	1	Specialization Course
2	6	7	2	1	Specialization Course
7	21	25	6	4	Total

Second Year: Second Semester

ECH	ECTS	Activities	Practical	Lecture	Course
1	3	4	-	1	Seminar in SLM
1	3	4	-	1	Total
8	30	34	16	-	MSc Thesis
8	30	34	16		Total

1 ECTS is equal to 25 hours of work per semester. Semester consists of 15 weeks. Activities are any educational action the student is performing outside the class including homework, internet search, field visits, making reports and presentations etc.