

ANNEX 1 - TEACHING PLAN

Unit 1 - Water dynamics and land management strategies: a comprehensive approach (6 ECTS/CFU)			
<i>SUB-UNITS</i>	<i>DATE</i>	<i>TITLE</i>	<i>ECTS/CFU</i>
<i>SUB 1.1</i>	2 - 6 Nov 2026	Groundwater Resources management	2
<i>SUB 1.2</i>	9 - 13 Nov 2026	Surface hydrology for sustainable water resources management	2
<i>SUB 1.3</i>	16 - 20 Nov 2026	Sustainable land management for agricultural systems: strategies, tools, assessment approaches	2

Unit 2 - Integrated soil physics and pedology for sustainable irrigation management (6 ECTS/CFU)			
<i>SUB-UNITS</i>	<i>DATE</i>	<i>TITLE</i>	<i>ECTS/CFU</i>
<i>SUB 2.1</i>	23-27 Nov 2026	Pedology, soil survey, soil classification, soil management	2
<i>SUB 2.2</i>	30 Nov -4 Dec 2026	Soil physics: water and solute movements	2
<i>SUB 2.3</i>	7-11 Dec 2026	Soil-plant-atmosphere continuum	2

Unit 3 - Advanced Irrigation Water Management: Principles, Practices and Tools (6 ECTS/CFU)			
<i>SUB-UNITS</i>	<i>DATE</i>	<i>TITLE</i>	<i>ECTS/CFU</i>
<i>SUB 3.1</i>	14 -18 Dec 2026	Crop Response to Water and Water Use Efficiency	2
<i>SUB 3.2</i>	4 -8 Jan 2027	Irrigation scheduling and crop growth modelling	2
<i>SUB 3.3</i>	11-15 Jan 2027	Irrigated agriculture at farm level: technologies, practices and implications	2

Unit 4: Modern Irrigation Infrastructure: Planning, Design, and Management (6 ECTS/CFU)			
<i>SUB-UNITS</i>	<i>DATE</i>	<i>TITLE</i>	<i>ECTS/CFU</i>
<i>SUB 4.1</i>	18-22 Jan 2027	Open channel irrigation design and management	2
<i>SUB 4.2</i>	25-29 Jan 2027	Multi-objective planning of large-scale pressurized systems	2
<i>SUB 4.3</i>	1-5 Feb 2027	Renewable energy for sustainable irrigation: basics and applications	2

Unit 5: Harnessing Geomatics for Natural Resource Management in Agriculture (6 ECTS/CFU)			
<i>SUB-UNITS</i>	<i>DATE</i>	<i>TITLE</i>	<i>ECTS/CFU</i>
<i>SUB 5.1</i>	8-12 Feb 2027	GIS data and mapping for irrigation design implementation	2
<i>SUB 5.2</i>	15-19 Feb 2027	Geomatic: theory and applications (Remote sensing and GPS)	2
<i>SUB 5.3</i>	22-26 Feb 2027	UAV-Based Remote Sensing for Agriculture: Principles, Applications, and Data Analysis	2

Unit 6: Reimagining Irrigation: Sustainable Use of Alternative Water Resources (6 ECTS/CFU)			
<i>SUB-UNITS</i>	<i>DATE</i>	<i>TITLE</i>	<i>ECTS/CFU</i>
<i>SUB 6.1</i>	1-5 Mar 2027	Drainage and drainage systems design and management	2
<i>SUB 6.2</i>	8-12 Mar 2027	Salinity control and management in relation to irrigation	2
<i>SUB 6.3</i>	15-19 Mar 2027	Treated wastewater use in agriculture, design, and sustainability aspects	2

Unit 7: Economic Principles of Irrigated Agriculture and Water Management (6 ECTS/CFU)			
<i>SUB-UNITS</i>	<i>DATE</i>	<i>TITLE</i>	<i>ECTS/CFU</i>
<i>SUB 7.1</i>	22-26 Mar 2027	Principles of farm economics	2
<i>SUB 7.2</i>	29 Mar -2 Apr 2027	Water Charging for Irrigated Agriculture	2
<i>SUB 7.3</i>	5-9 Apr 2027	Optimal allocation of irrigation water	2

Unit 8: Eco-Environmental Evaluation in Irrigation: Governance and Sustainability (6 ECTS/CFU)			
<i>SUB-UNITS</i>	<i>DATE</i>	<i>TITLE</i>	<i>ECTS/CFU</i>
<i>SUB 8.1</i>	12-16 Apr 2027	Cost-Benefit Analysis of investment projects	2
<i>SUB 8.2</i>	19-23 Apr 2027	Water footprint - Environmental sustainability assessment	2
<i>SUB 8.3</i>	26 - 30 Apr 2027	Monitoring and evaluation of water systems with a participatory perspective	2