

ANNEX 1 - TEACHING PLAN

Unit 1 - From Soil Genesis to Sustainable Practices: A Comprehensive Approach (6 ECTS/CFU)			
SUB-UNITS	DATE	TITLE	ECTS/CFU
<i>SUB 1.1</i>	3 - 7 Nov 2025	Sustainable land management for agricultural systems: strategies, tools, assessment approaches	2
<i>SUB 1.2</i>	10 - 14 Nov 2025	Surface hydrology for sustainable water resources management	2
<i>SUB 1.3</i>	17 - 21 Nov 2025	Groundwater Resources management	2

Unit 2 - Soil-Plant-Atmosphere Dynamics in Sustainable Irrigation (6 ECTS/CFU)			
SUB-UNITS	DATE	TITLE	ECTS/CFU
<i>SUB 2.1</i>	24 - 28 Nov 2025	Pedology, soil survey, soil classification, soil management	2
<i>SUB 2.2</i>	1 - 5 Dec 2025	Soil physics: water and solute movements	2
<i>SUB 2.3</i>	9 - 12 Dec 2025	Soil-plant-atmosphere continuum	2

Unit 3 - Advanced Irrigation Water Management: Principles, Practices and Tools (6 ECTS/CFU)			
SUB-UNITS	DATE	TITLE	ECTS/CFU
<i>SUB 3.1</i>	15 - 19 Dec 2025	Crop Response to Water and Water Use Efficiency	2
<i>SUB 3.2</i>	5, 7, 8 and 9 Jan 2026	Irrigation scheduling and crop growth modelling	2
<i>SUB 3.3</i>	12 - 16 Jan 2026	Irrigated agriculture at farm level: technologies, practices and implications	2

Unit 4: Modern Irrigation Infrastructure: Planning, Design, and Management (6 ECTS/CFU)			
SUB-UNITS	DATE	TITLE	ECTS/CFU
SUB 4.1	19 - 23 Jan 2026	Renewable energy for sustainable irrigation: basics and applications	2
SUB 4.2	26 - 30 Jan 2026	Open channel irrigation design and management	2
SUB 4.3	2 - 6 Feb 2026	Multi-objective planning of large-scale pressurized systems	2

Unit 5: Harnessing Geomatics for Natural Resource Management in Agriculture (6 ECTS/CFU)			
SUB-UNITS	DATE	TITLE	ECTS/CFU
SUB 5.1	9 - 13 Feb 2026	GIS data and mapping for irrigation design implementation	2
SUB 5.2	16 - 20 Feb 2026	Geomatic: theory and applications (Remote sensing and GPS)	2
SUB 5.3	23 - 27 Feb 2026	Precision irrigation management	2

Unit 6: Reimagining Irrigation: Sustainable Use of Alternative Water Resources (6 ECTS/CFU)			
SUB-UNITS	DATE	TITLE	ECTS/CFU
SUB 6.1	2 - 6 Mar 2026	Drainage and drainage systems design and management	2
SUB 6.2	9 - 13 Mar 2026	Salinity control and management in relation to irrigation	2
SUB 6.3	16 - 20 Mar 2026	Treated wastewater use in agriculture, design, and sustainability aspects	2

Unit 7: Economic Principles of Irrigated Agriculture and Water Management (6 ECTS/CFU)			
SUB-UNITS	DATE	TITLE	ECTS/CFU
<i>SUB 7.1</i>	23 - 27 Mar 2026	Principles of farm economics	2
<i>SUB 7.2</i>	30 Mar - 3 Apr 2026	Optimal allocation of irrigation water	2
<i>SUB 7.3</i>	7 - 10 Apr 2026	Water Charging for Irrigated Agriculture	2

Unit 8: Eco-Environmental Evaluation in Irrigation: Governance and Sustainability (6 ECTS/CFU)			
SUB-UNITS	DATE	TITLE	ECTS/CFU
<i>SUB 8.1</i>	13 - 17 Apr 2026	Cost-Benefit Analysis of investment projects	2
<i>SUB 8.2</i>	20 - 24 Apr 2026	Water footprint - Environmental sustainability assessment	2
<i>SUB 8.3</i>	27 - 30 Apr 2026	Monitoring and evaluation of water systems with a participatory perspective	2

