ANNEX 1

TEACHING PLAN

Unit 1 - Basic concepts of sustainable land and water management (6 ECTS/CFU)			
SUB-UNITS	***DATE***	***TITLE***	***ECTS/CFU***
SUB 1.1	*28 oct – 1 nov 2024*	Sustainable land management for agricultural systems: strategies, tools, assessment approaches	*2*
SUB 1.2	*4-8 nov 2024*	Surface hydrology for sustainable water resources management	*2*
SUB 1.3	*11 – 15 nov 2024*	Groundwater Resources management	*2*

Unit 2 - Sustainable on-farm irrigation management (6 ECTS/CFU)			
SUB-UNITS	***DATE***	***TITLE***	***ECTS/CFU***
SUB 2.1	*18-22 nov 2024*	Pedology, soil survey, soil classification, soil management	*2*
SUB 2.2	*25-29 nov 2024*	Soil physics: water and solute movements	*2*
SUB 2.3	*2-6 dec 2024*	Soil-plant-atmosphere continuum	*2*

Unit 3 – Irrigation water management (6 ECTS/CFU)			
SUB-UNITS	***DATE***	***TITLE***	***ECTS/CFU***
SUB 3.1	*9-13 dec 2024*	Crop Response to Water and Water Use Efficiency	*2*
SUB 3.2	*16-20 dec 2024*	Irrigation scheduling and crop growth modelling	*2*
SUB 3.3	*07-10 jan 2025*	Irrigated agriculture at farm level: technologies, practices and implications	*2*

Unit 4 – Irrigation systems design, planning and management (6 ECTS/CFU)			
SUB-UNITS	***DATE***	***TITLE***	***ECTS/CFU***
SUB 4.1	*13-17 jan 2025*	Renewable energy for sustainable irrigation: basics and applications	*2*
SUB 4.2	*20-24 jan 2025*	Open channel irrigation design and management	*2*
SUB 4.3	*27-31 jan 2025*	Multi-objective planning of large-scale pressurized systems	*2*

Unit 5 – Use of smart tools in agriculture (6 ECTS/CFU)			
SUB-UNITS	***DATE***	***TITLE***	***ECTS/CFU***
SUB 5.1	*3-7 feb 2025*	GIS data and mapping for irrigation design implementation	*2*
SUB 5.2	*10-14 feb 2025*	Geomatic: theory and applications (RS and GPS)	*2*
SUB 5.3	*17-21 feb 2025*	Precision irrigation management	*2*

Unit 6 – Use of Alternative Water Resources in Agriculture (6 ECTS/CFU)			
SUB-UNITS	***DATE***	***TITLE***	***ECTS/CFU***
SUB 6.1	*24-28 feb 2025*	Drainage and drainage systems design and management	*2*
SUB 6.2	*3-7 mar 2025*	Salinity control and management in relation to irrigation	*2*
SUB 6.3	*10-14 mar 2025*	Treated wastewater use in agriculture, design, and sustainability aspects	*2*

Unit 7 –Water economics (6 ECTS/CFU)			
SUB-UNITS	***DATE***	***TITLE***	***ECTS/CFU***
SUB 7.1	*17-21 mar 2025*	Principles of farm economics	*2*
SUB 7.2	*24-28 mar 2025*	Optimal allocation of irrigation water	*2*
SUB 7.3	*31 mar - 4 apr 2025*	Water Charging for Irrigated Agriculture	*2*

Unit 8 – Eco-environmental evaluation in irrigation (6 ECTS/CFU)			
SUB-UNITS	***DATE***	***TITLE***	***ECTS/CFU***
SUB 8.1	*7-11 apr 2025*	Cost-Benefit Analysis of investment projects	*2*
SUB 8.2	*14-18 apr 2025*	Water footprint - Environmental sustainability assessment	*2*
SUB 8.3	*21-25 apr 2025*	Monitoring and evaluation of water systems with a participatory perspective	*2*