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IPA South Adriatic
SuS_AGRI

"SuS_AGRI"

"SuStainable AGRIculture and climate change: impacts, strategies, and mitigation actions"

TRAINING COURSE

"INNOVATIVE METHODS TO CONTRAST THE CLIMATE CHANGE IMPACTS AND XYLELLA FASTIDIOSA IN THE AGRICULTURAL SECTOR"

From 13th to 16th May 2025

Technical Economic and Technological Institute "Pantanelli-Monnet" – Pantanelli section

C.da San Lorenzo, 72017 OSTUNI (BR)

Day 1 – 13/05/2025 – 8 hours	
09:00 – 09:30	**Registration and welcome coffee**
09:30 – 10:30	**Introduction: Sus_Agri Project and Agenda overview** • Michele Lastilla – Director - Regional Natural Park of the Coastal Dunes • Natale Palmisano – Principal - Pantanelli Monnet Technical Institute
10:30 – 13:00	**Lecture Session 1: Endotherapy – Technique Management - Prof. Michele Trotti**
Contents and inputs	• Introduction to endotherapy • Endotherapy for woody plants as a method to deliver nutrients and plant protection products directly into the vascular system, reducing environmental dispersion and using precise dosages • Practical experience on olive trees affected by CoDiRO
Expected output	• Understand theoretical foundations of endotherapy • Recognize environmental and health benefits • Evaluate its effectiveness in real scenarios (e.g., olive trees affected by CoDiRO)
13:00 – 14:00	**Lunch break**
14:00 – 18:30	**Practical session: Endotherapy in Olive Growing – Techniques and Field Practice - Prof. Trotti Michele**
Contents and inputs	• Practical demonstration of low-impact endotherapy • Analysis of injection equipment (manual and automatic devices) • Field treatment execution on olive trees affected by rapid desiccation

	• Discussion on safety, dosage, timing, and legal requirements
Expected output	• Learn proper equipment use • Understand physiological principles behind the technique • Compare efficacy with traditional methods
18:30 End of sessions	

Day 2 – 14/05/2025 – 8 hours	
09:00 – 09:30	**Registration and welcome coffee**
09:30 – 11:30	**Lectures Session 1: Olive Tree – Sustainable Management - Prof. Trotti Michele**
Contents and inputs	• Olive farming: planting and cultivation practices (phytosanitary, water, nutritional, soil management) • Xylella fastidiosa: sustainable countermeasures (PowerPoint and video) • Management of century-old olive groves in the context of climate change (drought) • Monumental olive trees: landscape protection, support policies, and territorial development opportunities
Expected output	• Learn sustainable olive grove management • Understand sustainable methods to combat Xylella • Recognize the value of traditional olive heritage
11:30 – 13:00	**Lectures Session 2: Olive Oil – Quality, Certification, and Value - Prof. Trotti Michele**
Contents and inputs	• Olive oil certification systems (Organic, PDO, IPP), Pantanelli experience • Recognizing olive oil quality
Expected output	• Understand certification schemes (BIO, PDO, IPP) • Identify sensory and organoleptic quality criteria • Understand the added value of traceability and certified quality
13:00 – 14:00	**Lunch break**
14:00 – 18:30	**Practical session: Pruning and Phytosanitary Treatments – Sustainable Methods in Olive Farming - Prof. Trotti Michele**
Contents and inputs	• Demonstration of pruning techniques under water stress • Equipment presentation for pruning and targeted treatments • Introduction to sustainable use of plant protection products
Expected output	• Execute targeted pruning interventions • Optimize eco-compatible phytosanitary treatments

	• Increase olive grove resilience to extreme climate conditions
18:30 End of sessions	

Day 3 – 15/05/2025 – 8 hours	
09:00 – 09:30	**Registration and welcome coffee**
09:30 – 13:00	**Lectures Session 1: Soilless Cultivation - Prof. Nigro Luigi**
Contents and inputs	• Hydroponic cultivation method (PowerPoint and video) • Soilless farming techniques: limitations and opportunities • Substrate selection (expanded clay, perlite, vermiculite, coconut fiber, rock wool, zeolite, etc.) • Cultivation management: yields, water and fertilizer efficiency, sustainability in extreme environments
Expected output	• Understand hydroponic and soilless farming foundations • Assess benefits, challenges, and sustainability • Interpret productivity and environmental efficiency data
13:00 – 14:00	**Lunch break**
14:00 – 18:30	**Practical session: Soilless Cultivation – From Theory to Practice in the Greenhouse - Prof. Nigro Luigi**
Contents and inputs	• Visit to the Pantanelli teaching greenhouse • Analysis of structures, substrates, and irrigation systems • Hands-on application of hydroponic concepts (nutrition, pH, EC)
Expected output	• Develop familiarity with soilless techniques • Assess adaptability to adverse climatic conditions • Integrate theory and practice in real-world environments
18:30 End of sessions	

Day 4 – 16/05/2025 – 6 hours	
09:00 – 11:00	Study Visit: Orti Urbani, Ostuni
11:00 – 12:00	Recap of the methodology and technical – Prof. Marilisa D'Errico
12:00 – 13:00	Final examination
13:00 – 14:00	**Lunch break**
14:00 – 16:00	Conclusions, evaluation form and distribution of certificates
16:00 End of sessions	