

Programme of the International Winter School on “Sustainable Coastal Management”

The Winter School

The International Winter School titled “**Sustainable Coastal Management**” is aimed at improving professionals’ and technicians’ skills in Sustainable Waste Management in Coastal Areas with a special focus on the plastic waste management. The training courses are organized and held under RE.CO.RD - «REcycling Strategies for the COastal Sustainable Waste Management towards R&D Innovation» Project listed in INTERREG V-A, Cross-border Cooperation Programme Greece-Italy 2014-2020.

Target

The International Winter School is addressed to: Young Professionals, Technicians, Employees of Public Authorities (Ports, Municipalities etc.), NGOs and other Relative Organizations, Recent Graduates / Post Graduates / Undergraduate Students of Physical Sciences, Engineering Sciences & Technology, Life Sciences, Mathematics & Information Sciences, Social Sciences, Environment & Energy, or relative studies. It is expected that after the completion of the training seminars the attendees will be able to improve their skills in sustainable waste management in coastal areas with a special focus on the plastic waste management. The participation to the Winter School is for free. 20 students (10 Italians and 10 Greeks), selected through a call for expressions of interest, will benefit of travel and accommodation costs.

The articulation of the course

The Winter School is divided into five (5) training days of eight (8) hours each, and into three (3) modules. The courses will be held in the Campus of the University of Ioannina in Kostakioi Arta, Greece and include study visits in the broader area of Arta and Lefkada.

The educational modules are:

- a) **Module 1: Sustainable Waste Management in Coastal Areas** includes 1-day of lessons at the University Campus in Arta and 1-day lesson at the Environmental Information Center of Arachtos in Kopraina with a study visit to the local museums.
- b) **Module 2: Environmental Management and Monitoring Systems in Coastal Areas** includes 1-day and a half of lessons at the University Campus in Arta and two-day study visit in the coastal area of Koronisia and a workshop in aquaculture facilities.



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c) **Module 3: Environmental Certification Schemes** includes a one-day of lessons at the Environmental Information Center of Lefkada and a study visit in the local marinas and at an environmental NGO.

Winter School Analytical Programme

Day 1

Welcome, Overview of the RE.CO.RD programme

Chrysostomos Stylios, University of Ioannina

Topics	Duration/hours	Venue	Date
The problem of marine litter, main polluters, sources etc.	1h	Classroom: University Campus in Arta	24 February 2020
Littoralization and anthropic pressure on coastal areas: a foreword.	1h		
Sustainable management of coastal areas: Stakeholder analysis, SWOT analysis	1h		
Territorial sustainability: theoretical evolution and general aspects.	1h		
Law and Economic Analysis of waste management	1h		
International, EU and National Legislation on Marine and Waste Policy	1h		
The particular case of Sea Litter	1h		
Comparing Greece and Italy	1h		
8h			

Day 2

<i>Topics</i>	<i>Duration/hours</i>	<i>Venue</i>	<i>Date</i>
Effective planning of an integrated plan Environmental Indicators and Risk assessment Protection Regimes in coastal areas of Greece (Natura 2000, Ramsar Convention)	2h	Classroom: Environmental Center of Arachthos, Kopraina, Arta	25 February 2020
Sustainable coastal management in the protected area of Amvrakikos Wetlands: the environmental, social and economic impacts	2h	Study visit: Museum of the Lighthouse Natural History and Fisheries in Kopraina	
Case studies, good practices	4	Study visit: Workshop in aquaculture facilities in Menidi and Psathotopi	
Total	8h		

Day 3

Topics	Duration/hours	Venue	Date
Environmental Monitoring systems, Innovative tools and approaches: Monitoring environmental pollution by the use of mobile laboratories, Design of the platform, Instrument suite, Experiment design, Finding the optimal measurement strategy/limitations and recommendations, Optimal mobile lab/sensor; Positioning, Impact of time sampling, Impact of spatial sampling, Data collection and analysis, Representative case studies Data collection and capitalization, Risk prevention	2h	Classroom: University Campus in Arta	26 February 2020
Overview on special guidelines for the sustainable plastic waste management in coastal areas Raising awareness	2h		
Marine litter monitoring	2h		
Marine litter: sources, impacts and possible solutions	2h		
8h			

Day 4



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<i>Topics</i>	<i>Duration/hours</i>	<i>Venue</i>	<i>Date</i>
Certification Programmes	1h	Classroom: Environmental Information Center of Lefkada	27 February 2020
Presentation of ISO 14001 EMAS	1h	Classroom: Environmental Information Center of Lefkada	
Case study: The role of touristic marinas	3h	Study visit: marina of Aktion	
Case study: the NGO's role in Re-use- Reduction-Recycling	3h	Study visit: workshop in the environmental NGO "Lefkogaia" in Lefkada	
8h			

Day 5



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Topics	Duration/hours	Venue	Date
Polymers and plastics: applications and typology, main properties of polymers, mechanical recycling of plastics: selection, washing, re-processing Technological approach for the collection, selection and recycling of plastic materials	2h	Classroom: University Campus in Arta	28 February 2020
Case studies: The experimental Characterization of collected plastic materials in the Innovation engineer laboratories at University of Salento	2h		
Collection and classification of plastic waste found on the beaches, characterization of collected plastic materials, main properties of polymers	4h	Study visit: Coastal area of Koronisia in the National Park of Amvrakikos	
8h			

Closing Ceremony.

Language

The lessons will be held in English

More information

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