



# SUSTAINABLE COASTAL GROWTH AND RESILIENCE

OFFICIAL PROGRAMME

2025 edition



## Course Timetable

<p><b>Module 1: Overview of Coastal Resilience and its Importance for Business</b>  <b>Week 1-1 Jan 27-31</b></p>		
<p><b>Opening Ceremony</b>  <b>January 27 14:00-16:00 CET</b></p> <p><b>Live session</b>  Speakers: Nadia Pinardi (DCC-CR, University of Bologna), Renata Archetti (University of Bologna), Quillon Harpham (HR-Wallingford), Ana Carolina Mazzuco (OTGA).</p>		
Lecture Title	Hours	Lecturer
<i>Overview of Coastal Resilience Concepts</i>	2	Giulia Galluccio
<i>Adaptation Planning for Coastal Resilience</i>	2	Chiara Trozzo
<i>Sustainability transition management and the importance of coastal resilience for business</i>	2	Matteo Mura
<i>Circular Economy for the Marine Environment</i>	2	Alessandra Bonoli
<i>Early Warning Systems for Disaster Preparedness</i>	2	Carlo Cacciamani
<p><b>Week 1-2 Feb 3-7</b></p>		
<p>Webinar Speakers: Godwell Nhamo and Cecilia Bittoni  <b>Live online webinar - Tuesday, 4 February 14:00-16:00 CET</b></p>		
<p>Week 1-2 Tutor: Chiara Trozzo  <b>Live online session - Friday, 7 February 14:00-15:00 CET</b></p>		
<p><b>Module 2. Understanding Coastal Hazards from Operational Oceanography Products</b>  <b>Week 2-1 Feb 10-14</b></p>		
Lecture Title	Hours	Lecturer
<i>Overview of Global Products from Operational Oceanographic Services</i>	2	Nadia Pinardi
<i>Coastal Earth Observation Satellites Products and Applications for Monitoring Coastal Hazards</i>	2	Jérôme Benveniste
<i>Introduction to Cloud Space and the Jupyter Notebooks</i>	2	Megi Hoxhaj
<i>Visualization and Extraction of Time Series for Specific Coastal Areas</i>	2	Megi Hoxhaj
<i>Hazard Mapping for Waves</i>	2	Salvatore Causio
<p><b>Week 2-2 Feb 17-21</b></p>		
<p>Week 2-2 Webinar Speakers: Emanuela Clementi and Ghada El Serafy  <b>Live online webinar - Tuesday, 18 February 14:00-16:00 CET</b></p>		
<p>Week 2-2 Tutor: Salvatore Causio  <b>Live online session - Friday, 21 February 14:00-15:00 CET</b></p>		

**Module 3: Impact Assessment and Risk Management**  
**Week 3-1 Feb 24-28**

Lecture Title	Hours	Lecturer
<i>Introduction to Environmental Impact Assessment</i>	2	Marie Pendle
<i>Environmental Impact Assessment Techniques</i>	2	Marie Pendle
<i>Consultation as part of Environmental Impact Assessment</i>	2	Marie Pendle
<i>Flood and Coastal Erosion Risk Management</i>	2	Mike Panzeri
<i>Environmental Impact Assessment Case Studies</i>	2	Lorenzo Bertolé

**Week 3-2 Mar 3-7**

Week 3-2 Webinar Speakers: Marie Pendle and TBD  
**Live online webinar – Tuesday, 4 March 14:00-16:00 CET**

Week 3-2 Module 3 Tutor: Marie Pendle  
**Live online session Friday, 7 Mar 14:00-15:00 CET**

**Module 4: Enabling Technologies**  
**Week 4-1 Mar 10-14**

Lecture Title	Hours	Lecturer
<i>Informatics and Big Data</i>	2	Quillon Harpham
<i>Artificial Intelligence for Coastal Extreme Sea Level Events</i>	2	Lorenzo Mentaschi
<i>Delivering Better GIS</i>	2	Mike Panzeri
<i>Introduction to Data Assimilation and Data Assimilation and Reanalysis for Coastal Resilience</i>	2	Sarah Dance
<i>Coastal Altimetry Products Design for Monitoring Coastal Hazards</i>	2	Jérôme Benveniste

**Week 4-2 Mar 17-21**

Week 4-2 Webinar Speakers: Jacopo Alessandri and Michiel Knaapen  
**Live online webinar – Tuesday, 18 March 14:00-16:00 CET**

Week 4-2 Tutor Michael Panzeri  
**Live online sessions - Friday, 21 Mar 14:00-16:00 CET**

**Module 5: Solutions for Coastal Resilience**  
**Week 5-1 Mar 24-28**

Lecture Title	Hours	Lecturer
<i>Green and Sustainable Ports</i>	2	Mariano Buccino
<i>NBS for Coastal Protection</i>	2	Renata Archetti
<i>Sustainable Mariculture</i>	2	Slim Gana
<i>Sustainable Coastal Cities</i>	2	Vassiliki Kourafalou

<i>Marine Carbon Dioxide Removal Solutions</i>	2	Emanuele Di Lorenzo
<b>Week 5-2 Mar 31- Apr 4</b>		
Week 5-2 Webinar Speakers: Achilleas Samaras and Patricio Winckler <b>Live online webinar – Tuesday, 1 April 14:00-16:00 CET</b>		
Week 5-2 Tutor Renata Archetti <b>Live online sessions - Friday, 4 April 14:00-15:00 CET</b>		
<b>Module 6: Solutions for Coastal Resilience</b>		
<b>Bertinoro, April 7-11</b>		
<b>Day 1:</b> Opening and Project Kickoff		
<b>Day 2:</b> Team Collaboration and Guidance		
<b>Day 3:</b> Team Outdoor Activity- City of Rimini		
<b>Day 4:</b> Project Presentations (Part 1)		
<b>Day 5:</b> Project Presentations (Part 2) and Certificate delivery		



COASTAL RESILIENCE  
SCHOOL



**unesco**  
Intergovernmental  
Oceanographic  
Commission



UN Decade  
Collaborative Centre  
for COASTAL  
RESILIENCE



OceanTeacher Global Academy