

Blended Intensive Program

Important note: Students interested in this program have to apply to their home university according to the internal procedure.

General information

BIP Title	Coastal Management
Coordinating Institution	Université de Bretagne Occidentale
Partner institutions	Kiel University (CAU) Universidad de Cádiz (UCA1) Universidade do Algarve (UAlg) Split University (UNIST)
BIP Code	2024-1-FR01-KA131-HED-000209909-3
Study field (ISCED)	0532 Earth sciences
Abstract (a few lines describing the course)	Coasts are hotspots of human use, ecosystem diversity and the effects of climate change. Future generations will face massive challenges in coastal management of any kind: River mouths, tidal flats, beaches, cliffs in various tidal and climatic environments, and with various degrees of urbanization and coastal management. This calls for interdisciplinary hands-on experience and training of students in the field of coastal dynamics. The aim of this international and interdisciplinary field and study programme is to develop competencies to describe and compare the geophysical and socio-economic states of different coastlines in Europe, developing abilities to predict their possible future evolution. The participant will have to propose an adequate survey/monitoring program for impact studies based on their knowledge on coastal processes. This program is mainly composed of online courses and field observation.
Erasmus+ priorities addressed	Environnement et lutte contre le changement climatique
Calendar	<ul style="list-style-type: none"> ● Application deadline: 1st of March ● Confirmation of acceptance by: 1st of march ● Virtual component dates: 6-13-20-27th of may 2025 from 4 PM to 6 PM ● Physical component dates: 23rd-27th of June 2025
Total number of	48 hours (online: 8h visio + 5h autonomous work / on-site:

hours	35h)
Number of participants	<p>Partner SEA-EU universities :</p> <ul style="list-style-type: none"> ● CAU : can propose up to 5 students ● UALG, UNIST, UCA can propose up to 3 students <p>Other SEA-EU universities: can propose 1 student</p> <p>The minimum number of participants is 15, maximum is 20</p>
Coordinator(s)	France Floc'h
Teacher(s)	Christian Winter (Kiel University), Nicolas Le Dantec (UBO), ...
Contact	<p>Regarding organisational aspects: severine.allain@univ-brest.f</p> <p>Regarding pedagogical aspects: france.floch@univ-brest.fr</p>
Mobility costs	This mobility is eligible for Erasmus+ funding. Please contact your university for more information.

Pedagogical contents

Target group/Expected profile	The course is more adapted to Master and Doctoral students in coastal and marine sciences, physics, geomorphology, geography, geology but right & laws or economy students having expertise in coastal environments are welcomed.
Language requirements	Minimum B1 (test can be taken on EU academy)
Selection criteria	<p>Students will be selected by the sending university based on:</p> <ul style="list-style-type: none"> • Academic background • Proven interest (e.g. a member of a club...) • Academic level (average grades etc.) • Diversity and Inclusion Criteria
Description of the virtual component	<p>May 6: Syllabus, presentation of the course, presentation of the students (1h), Coastal risks (1h)</p> <p>May 13: Coastal processes (2h)</p> <p>May 20: Geomorphology, coastal types (2h)</p> <p>May 27: Conditions in Brittany (1h), Measurement methods (1h)</p> <p>Students will have access to a Small Portable Online Course untitled Coastal Processes developed by France Floc'h (about 5 hours of numerical contents to follow in autonomy)</p>
Objectives and Description	<p>The aim of this international and interdisciplinary field and study programme is to develop competencies to describe and compare the geophysical and socio-economic states of different coastlines in Europe, developing abilities to predict their possible future evolution. The participant will have to propose an adequate survey/monitoring program for impact studies based on their knowledge on coastal processes. This program is mainly composed of online courses and field observation.</p>
Methods and outcomes	<p>Field Survey: For the field surveys students from (at least two) international incoming institutions will meet a local group. They will travel together to two coastal sites (one wild and one anthropized) and perform a measuring program that combines standardised observations (report sheet) with own interpretations.</p>

	<p>The field work is centered around geoscientific site description (e.g. beach state, boundary conditions, slopes, sediment particle size, wave climate...) but shall be extended by socio-economic aspects (land use, housing, coastal protection, threats...) depending on the expertise of participating students. The survey days will start with a brief introduction of the very field site and methods. The measuring days are to be ended soon enough to allow for team work (data processing, reporting, visualisation) after each day. The students must work in international teams and submit their field report every evening.</p> <p>Seminar / Presentation: After the field course every student team chooses a certain site or aspect and prepares a seminar or poster presentation to be given on the last day of the field courses. Here additional and comparative data should be included (e.g. Wave climate, past states as seen in satellite images (google earth engine)).</p> <p><u>Outcomes:</u></p> <ul style="list-style-type: none"> - Knowledge on coastal processes and analysis methods - Competencies to analyze the coastal state and past evolution, to propose adequate survey/monitoring program for impact studies, quick reporting, group compilation and presentation of results - Experience: International and interdisciplinary discourse, hands-on field techniques, experience coastlines
Added value compare with existing courses	Integrated point of view of coastal risks and coastal processes - Engineer point of view : build on multidisciplinary expertise to propose adequate and realistic survey/monitoring program for impact studies
ECTS credits to be recognized (only for students)	4 ECTS
Evaluation (only for students)	Poster presentation on the last day
Transcript of records (only for students)	Failed/passed

Programme

	Dates	Programme (Contents, Teachers, modalities of work, evaluation...any relevant information for the applicants)
Virtual part	6 - 13 - 20 - 27th may from 4 PM to 6 PM	<p>May 6: Syllabus, presentation of the course, presentation of the students (1h) France Floc'h and Nicolas Le Dantec from University of Brest and Christian Winter from Kiel University, Coastal risks (1h) by Nicolas Le Dantec</p> <p>May 13: Coastal processes (2h) by France Floc'h</p> <p>May 20: Geomorphology, coastal types (2h) by Christian Winter</p> <p>May 27: Conditions in Brittany and Measurement methods (2h) by Nicolas Le Dantec and France Floc'h</p> <p>Students will have access to a Small Portable Online Course untitled Coastal Processes developed by France Floc'h (about 5 hours of numerical contents to follow in autonomy)</p>
Physical part	23-27 June 2025	<p>4 days in the field, 1 day for discussion and presentation, 3 Groups of 5-7 students visit 6 coastal sites in total, allowing two days on one system for each group. Groups shall be international. One tutor is joining per group. They perform on site coastal classification, description, and accompany with information on boundary conditions and additional information in the evening session. Results are reports on the physical and environmental state and future pathways of that very system after two days.</p>

		<p>Day 1:</p> <p>8:00 Welcome at host institution IUEM.</p> <p>8:15 Introduction to course, divide into 3 international groups A,B,C of students, one tutor per group.</p> <p>9:00 Pack the vans. Leave to respective sites 1,2,3 with the tutors.</p> <p>10:00 On site: Short intro to site by tutor, explanation of equipment, health and safety, survey / description self organised in the group</p> <p>12:00 Lunch on site</p> <p>12:30 Coniune survey</p> <p>14:30 Return to host institution</p> <p>15:30 Reporting, survey of additional information / literature, discuss with the other groups, identification of knowledge gaps for second day</p> <p>18:30 End of day, Sociallising</p> <ul style="list-style-type: none"> • Day 2: <p>9:00 Repeat the first day, same group, same site, same schedule, but add observations, interviews, secondary information</p> <p>15:30 Reporting, survey of additional information / literature, discuss with the other groups, Finalise report on site.</p> <p>Open end</p> <ul style="list-style-type: none"> • Day 3: <p>Leave to respective site 4,5,6 with the tutors.</p> <p>Like day 1</p> <ul style="list-style-type: none"> • Day 4: <p>Like day 2</p>
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Practical information

<p>Venue</p>	<p>The physical mobility will take place at : Institut Universitaire Européen de la Mer Technopôle Brest-Iroise rue Dumont d'Urville 29280 Plouzané – FRANCE</p>
<p>Accommodation recommendations</p>	<p>Will be precised in the Welcome Booklet.</p>
<p>Other useful information</p>	