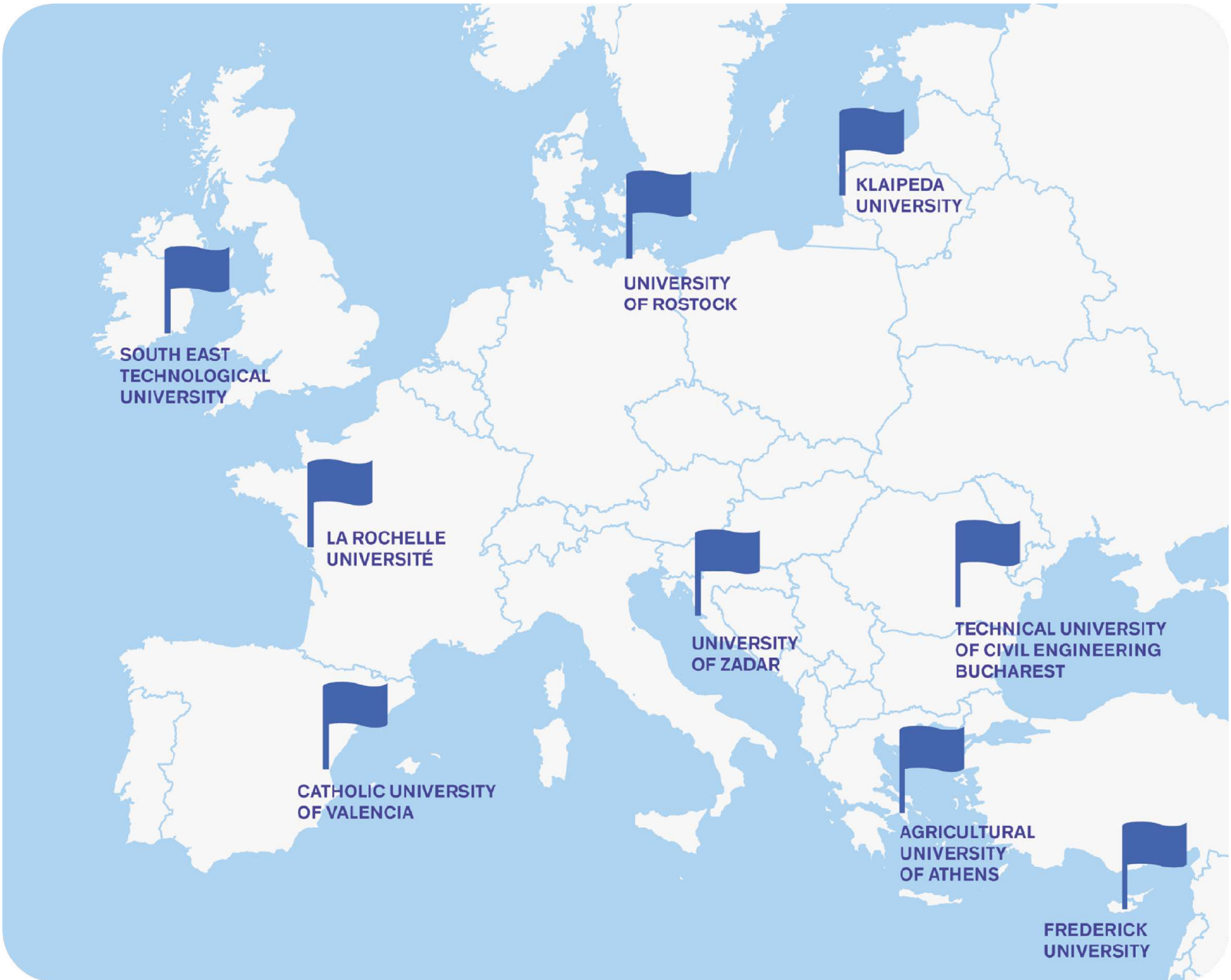
EU-CONEXUS PhD Transversal and SmUCS Courses' Catalogue

APRIL - JUNE 2023

EU CONEXUS

Co-funded by the European Union



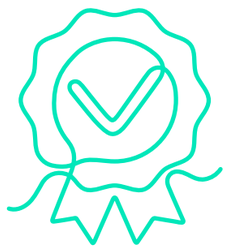
About EU-CONEXUS

We increase the academic opportunities for EU-CONEXUS PhD Students by launching the EU-CONEXUS PhD Courses' Catalogue open to all PhD Students in the alliance. The European University for Smart Urban Coastal Sustainability (EU-CONEXUS) focuses on interdisciplinary studies and research in urban and semi-urban coastlines because they are increasingly densely populated areas and very important for trade, aquaculture and fisheries, transports, energy, and tourism. These challenges cannot be overcome without interdisciplinary attitude, therefore EU-CONEXUS created a catalogue with courses open for PhD students on the thematic of SmUCS (Smart Urban Coastal Sustainability) including courses developing transversal competencies, from all the partner universities in EU-CONEXUS:

- La Rochelle Université (LRUniv), France
- Agricultural University of Athens (AUA), Greece
- La Universidad Catolica de Valencia (UCV), Spain
- Klaipeda University (KU), Lithuania
- University of Zadar (UNIZD), Croatia
- Technical University of Civil Engineering Bucharest (UTCB), Romania
- South-East Technological University (SETU), Ireland
- University of Rostock (UROS), Germany
- Frederick University (FredU), Cyprus

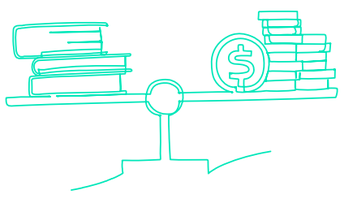
Why to take these courses?

- Access to a transversal and SmUCS-related courses, in a stimulating and international environment
- Acquire new skills and competences useful for the PhD research and for the following career
- Interact with other PhD Students but also with internationally recognized experts, and professors
- Practiced and improved scientific and professional communication in an international language
- Application of integrated concepts, data, techniques, tools, perspective from various research fields, related to SmUCS
- For co-tutelle PhD within EU-CONEXUS alliance, for which funds are granted
- Knowledge of the academic PhD programmes in EU-CONEXUS and creating a network of PhD students
  Having a starting point to develop new Research partnerships, writing projects together
- Increase chances to be selected to the EU-CONEXUS PhD physical Summer Schools or to other EU-CONEXUS funded opportunities for PhD Students.



Certificate

All the PhD students will receive an EU-CONEXUS Certificate testifying the participation in the course. Additionally, some courses offer ECTS. Courses can also be recognized through the mobility scheme and/or co-tutelle agreement.



NO COSTS

The participation to the EU-CONEXUS PhD Courses is free of charge for all selected participants.

Teaching mode

For the academic year 2022 - 2023, the majority of the courses will be offered online through the EU-CONEXUS Moodle Platform.

How to apply?

EU-CONEXUS PhD Courses can be offered by your home university or any other university within EU-CONEXUS. In order to register for the course/courses, all you need to do is to consult this catalog, check your availability to attend the courses, and contact the local responsible from your university.

Contacts
of PhD Officers

University	E-mail adress
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FredU	l.nardi@frederick.ac.cy

Catalogue for transversal and SmUCS skills
Spring 2023

University	Title
LRUniv	Cost and Effectiveness Of Resilience Measures Proposed by the EU
UCV	Building my Career Project
KU	Sustainable Business Development
UNIZD	Data Science Research Methods
UTCB	Geographic Information Systems
SETU	Research Planning and Project Management
UROS	Introduction to Academic Writing and Presentation Skills
FredU	Collection and Analysis of Research Data

Cost and Effectiveness of Resilience Measures Proposed by the EU

La Rochelle Universite - LRUniv

No of teaching hours	ECTS	Timetable	Teaching mode	Language
5h	-	Asynchronous course. The content will be available online.	Virtual	English

Course Description

1. Method for evaluating the effectiveness of European policies
2. Analysis by field of action
3. Consistency of EU actions within the Green Deal framework/ EU global strategy/ international commitments
4. Assessment of the added value of European action in the field of resilience

a) with respect to individual action by Member States
b) with respect to local actions
c) In the context of international cooperation (humanitarian / development / security)

Learning outcomes:

- Develop capacity building in project development
- Acquire skills in the evaluation of European policies.

Building my Career Project

Universidad Católica de Valencia - UCV

No of teaching hours	Timetable	Teaching mode	Language
20	09/06/23; 16/06/23; 23/06/23; 30/06/23; 9.00 - 14.00 CET	Virtual	English

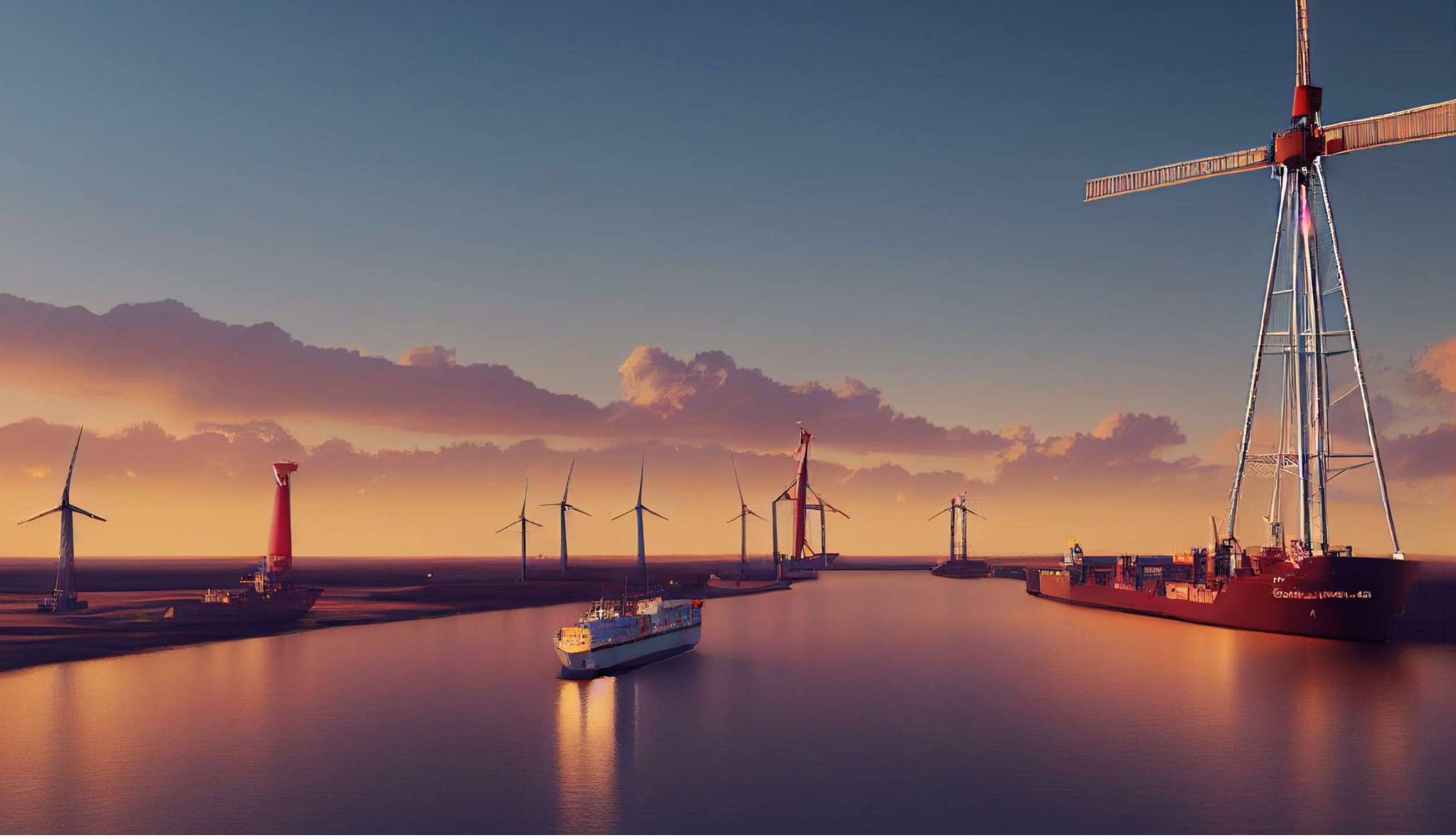
Course Description

The aim of this course is to guide students in the construction of their professional career project and career pathways. This is a practical course in which students will begin with a self-assessment process of their professional profile. They will then analyze the opportunities currently available to them and will end the course with a decision-making process that includes a medium-term action plan.The course is recommended for the first year PhD students.

Learning outcomes:

At the end of this course, the doctoral students will learn how to manage their professional careers, with the following learning outcomes:

- review their priorities, values, current capabilities, commitments, and career constraints to enhance or revise their career at any time
- explore the range of options and possibilities for a future career
- design their career objectives, plan the steps to achieve them and decide on actions to affect their career plan



Sustainable Business Development

Klaipėda University - KU

No of teaching hours	ECTS	Timetable	Teaching mode	Language
30h	6	2- 31 May 2023 flexible timetable to be discussed with students	Virtual	English

Course Description

With the combination of increased market demand for environmentally sustainable products and the significant impact Global Warming has and will continue to have on raw material components on which products and their manufacturing processes are based, it is critical for students that will work in the for-profit sector to understand new trends in sustainable business. Realize sustainable business benefits and importance of the organization, employee and every member of the society.

Learning outcomes:

- Understands the importance and significance of sustainable development, sustainable business and responsible consumption.
- Knows the goals of sustainable development and their practical implementation in organizations.
- Analyzes sustainable development reports.
- Ability to identify aspects of sustainable development in organizations.
- Able to develop a sustainable business strategy
- Identifies corporate social responsibility contribution to sustainable business development

Data Science Research Methods

University of Zadar - UNIZD

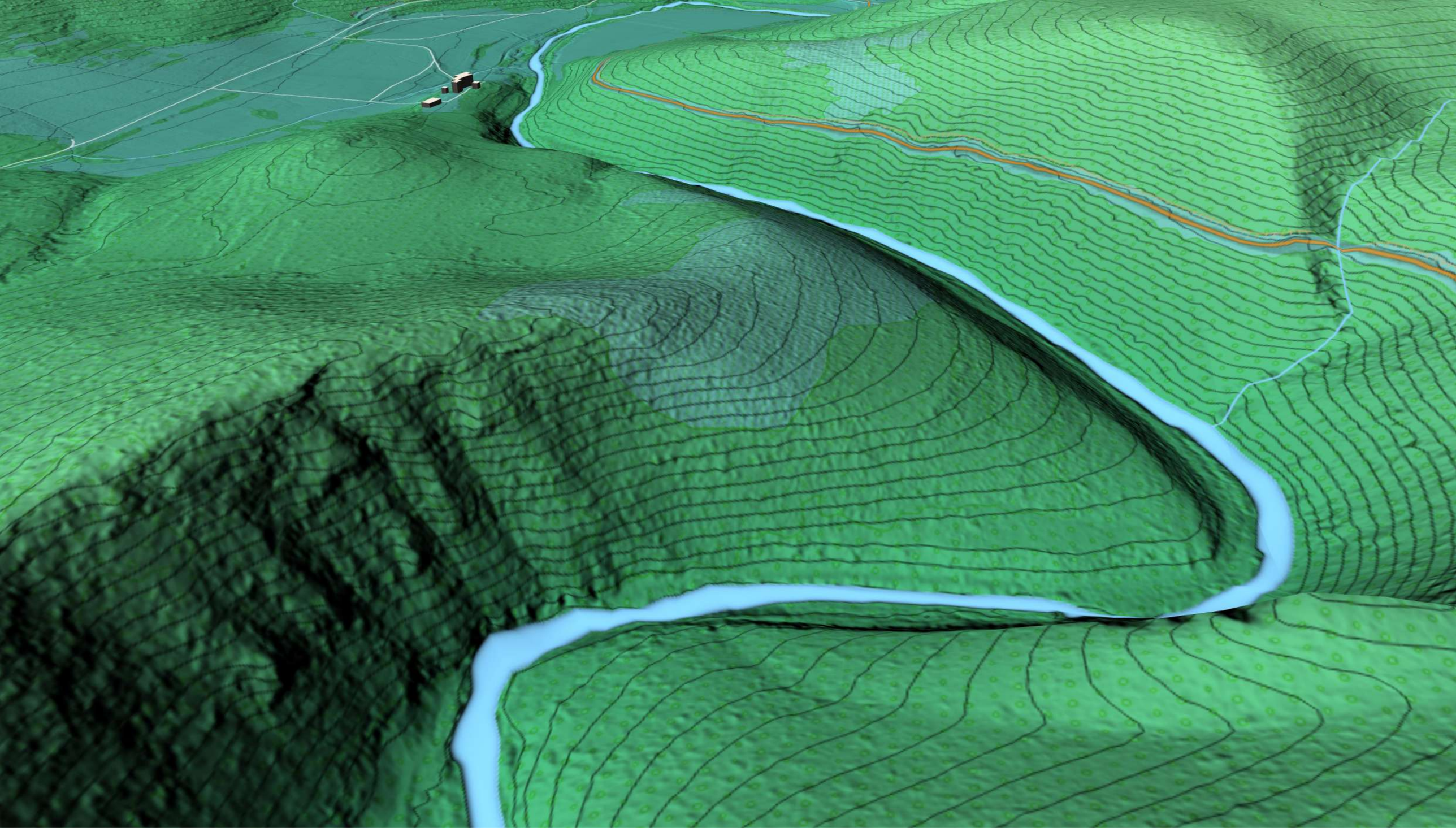
No of teaching hours	ECTS	Timetable	Teaching mode	Language
10h	4	02/05/2023 14:00 – 15:00CET 03/05/2023 9:00 – 12:00CET 10/05/2023 9:00 – 12:00CET 24/05/2023 9:00 – 12:00CET	Virtual	English

Course Description

Data science is an increasingly important interdisciplinary field that encompasses statistical methods and techniques as well as a range of computational and data manipulation skills. The course covers topics such as data collection, exploratory data analysis, data visualization, and simple data modeling techniques. Students will learn how to use the statistical programming language R to access, collect and analyze data from various sources. They will also learn how to use popular R packages such as ggplot2, dplyr, tidyr, and modelr to visualize and transform data and build statistical models. The course also covers ethical considerations in data science research and provides students with hands-on experience working with real-world datasets.

Learning outcomes:

- Understand the basic principles of data science, including data acquisition, data cleaning, exploratory data analysis, and visualization.
- Develop basic knowledge of R programming language, including data manipulation, visualization, and modeling using popular packages such as ggplot2, dplyr, etc. Learn how to use statistical methods and basic machine learning algorithms for predictive modeling and classification tasks
- Develop skills in communicating data science findings to various audiences, including data visualization and reporting. Understand the ethical considerations and limitations of data science, including issues of bias, privacy, and data protection.
- Apply data science skills to real-world data sets from a range of domains



Geographic Information Systems

Technical University of Civil Engineering Bucharest

No of teaching hours	ECTS	Timetable	Teaching mode	Language
14	7	03/05/23 16 - 20 CET 05/05/23 16 - 20 CET 10/05/23 16 - 20 CET 12/05/23 16 -18 CET	Virtual	English

Course Description

This interactive course is especially relevant for students with an academic background who deal with geospatial data (events that take place in a certain location) but who have only a limited knowledge of the principles of GIS and earth observation in their field of application. Skills in the online environment workflow regarding the visualization and exploitation of geospatial data, linking statistical data to spatial location, using real time data services in GIS and integrated exploitation using various Webapps.
During the course, the students will have educational accounts inside ESRI ArcGIS Organization of UTCB - Doctoral School, having the possibility to access environmental geospatial data in the most powerful online GIS environment. There will be opportunities to reinforce the acquired skills in self-study assignments with feedback.

Learning outcomes:

- Learn how to explore geoportals and open geospatial data for environment; Knowledge of the principles of geospatial modeling;
- Disseminate the geospatial information in the online environment - applications;
- Understand geospatial web applications; Use geospatial web applications;
- Understand Geospatial Data Standards and GIS Interoperability

Research Planning and Project Management

South East Technological University - SETU

No of teaching hours	ECTS	Timetable	Teaching mode	Language
20h	5	20/04, 27/04, 04/05, 11/05, 18/05 10.30 to 13.30 CET	Virtual	English

Course Description

This module will provide participants with an understanding of project management theory in the context of academic research and will introduce them to a portfolio of relevant tools and techniques. Participants will learn how to plan research projects and studies, focussing on the communication of plans in the context of research funding proposals. The module will cover how to set research plans in the context of the state-of-the-art, how to define research objectives and research questions as well as standard project management aspects including time management, cost management, communications management, IP management and risk management. Module assessment will be via individual assignments where the learner prepares a project plan for a PhD project in their area of expertise and where the learner develops a case study of a completed research project (preferably within their research area), together with a group assignment to develop a short proposal for a collaborative research project.

Learning outcomes:

On successful completion of this module, a student will be able to:

- Originate, plan and develop proposals for funding of research projects within a complex context (for example involving various stakeholders with different objectives, international collaboration and large project teams)
- Select, apply and continuously evaluate project management techniques for a range of research project types
- Analyze the progress of running research projects to identify impending critical situations and implement appropriate mitigation strategies
- Plan how to effectively engage with funding agencies and external sponsors/stakeholders to report on project progress and effectively communicate issues of concern

Introduction to Academic Writing and Presentation Skills

University of Rostock - UROS

No of teaching hours	ECTS	Timetable	Teaching mode	Language
6h	-	3x2 hours in three consecutive weeks, details tbc	Virtual	English

Course Description

This course is designed for graduate students who would like an introduction to the specifics of standard research papers and academic presentations. It provides input, guidance, and useful tools and raises awareness of appropriate language, organizational patterns, and revision/correction skills. There will be opportunities to practice the skills taught during the course in self-study assignments with feedback. Course participants need to plan for an extra 6 hours in addition to the online class time to complete those self-study tasks outside class times.

Learning outcomes:

At the end of this course, participants will be able to:

- use an academic writing style which is clear and concise
- know what elements contribute to the user-friendliness of their texts and how to use those
- structure a standard research paper and also how to structure individual paragraphs
- review a text written by their peers
- know the most relevant aspects to be mindful of when giving an academic presentation

Collection and Analysis of Research Data

Frederick University - FredU

No of teaching hours	ECTS	Timetable	Teaching mode	Language
18h	5	05/04/2023; 26/04/2023; 03/05/2023; 10/05/2023; 17/05/2023; 24/05/2023 16:00 – 19:00 CET	Virtual	English

Course Description

The course purpose is to provide students with the knowledge and tools needed for designing and executing research analysis including developing their research question and objectives, reviewing the literature and choosing and applying an appropriate research design (qualitative and quantitative) in order to obtain and provide results according to the objectives set and write a doctoral dissertation. The course engages students in advanced statistical analysis techniques which are widely used by social researchers worldwide. The same applies to qualitative data analysis.

Learning outcomes:

- Understand the need for, and methods to search for, extract, and synthesize information in subjects related to smart urban coastal sustainability;
- Obtain information from a variety of sources and appraise information sources on the basis of quality and reliability
- Formulate and clarify their research topic and objectives
- Consider different research strategies based on their research project and objectives
- Apply data collection through interviews and evaluate the data obtained
- Collect, enter and analyze quantitative data and interpret results using the IBM SPSS software and or R

European University for Smart Urban Coastal Sustainability

71 423
students

927
study programmes
at all levels

8 173
staff

98
research units

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