EU CONEXUS

Co-funded by the European Union

VISUAL CULTURE

Sector: European	**Thematic area:** Intercultural communication/Multilingualism
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

A course that will introduce students into an interdisciplinary field of inquiry that employs a variety of approaches to analyze and interpret visual images. The aim of the course and core objectives are to recognize, identify, and date the significance of the various art and design movements and related theories, gain a broader understanding of how art and design is affected by culture and vice versa, develop an awareness of art and design history and how it relates to professional practices by identifying important artists and designers, and their works associated with the periods and styles covered.

LEARNING OUTCOMES:

1. Demonstrate an understanding of how and why fine, applied, and decorative arts, and visual and material cultures are produced, mediated, and consumed;
2. Acquire the ability to differentiate between and employ a variety of historical and contemporary cross- and inter-disciplinary theories and methods, and have applied them to the critical analysis of the history of art and design.

SUSTAINABLE DEVELOPMENT GOALS:

4. Quality education

HARD SKILLS:

Research skills

Critical thinking

SOFT SKILLS:

Problem solving

Team work

Study format: Online	**Study methods:** Seminars, tutorials, student presentations and workshops.
Study period: Autumn 2024	**Synchronous contact hours:** 20 **Asynchronous hours & self directed learning:** 5
Entry requirements: Communication in English at a B2 level	**Assessment:** Continuous array of assessments used to help students learn. In-class participation discussion: 25%, Short Answer Quiz Midterm: 20%, Presentations: 25%, Final Paper: 30%
Provider: Frederick University	**Stage of accreditation:** Pending on national legislation

EU CONEXUS

Co-funded by the European Union

DURABLE, SUSTAINABLE, RESILIENT?

Sector: European	**Thematic area:** International standardisation
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

Official documents at all levels (university, working place, public administration at local, regional, and national level, EU, UN institutions, etc.) as well as media and social media are nowadays full of concepts like hazard, risk, durable, sustainable, resilient, disaster, etc. Appropriate use of such concept is essential since the UN SDG's are more and more part of professional and social realities.
Through this course, participants will understand the concepts and their correct use in different circumstances through case studies.

LEARNING OUTCOMES:

1. Define and describe the concepts of hazard, risk, durable, sustainable, resilient;
2. Distinguish and explain the use of the concepts in social and institutional environment.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG11: Sustainable cities and communities
- SDG17: Partnerships for the Goals

HARD SKILLS:

Understand and properly use the concepts for elarobating documents

SOFT SKILLS:

Critical thinking

Communication

Study format: Online	**Study methods:** Lectures notes, individual study, public presentation and discussions
Study period: Autumn 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Quiz, discussions, individual report and presentation.
Provider: Technical University of Civil Engineering Bucharest	**Stage of accreditation:** Part of a Bachelor program accredited by UTCB and by Romanian Agency for Quality Assurance in Higher Education (ARACIS)

EU CONEXUS

Co-funded by the European Union

TOWARDS A GREEN EUROPEAN INDUSTRIAL POLICY

Sector: European	**Thematic area:** European Enviromental policies
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

The aim of the course is to understand the need and pillars of European Industrial policy to enhance competitiveness of European industries in the context of current trends of globalization. Students will comprehend the impact of competition inside global value chains, implementing alternative business models.

LEARNING OUTCOMES:

1. Understand Economic growth and global competition, and the importance of global value chanis;
2. Evaluate Industrial Policy tools and their potential impact on the desired outcomes, as unintended consequences

SUSTAINABLE DEVELOPMENT GOALS:

- SDG8. Decent work and economic growth.
- SDG9: Industry, innovation and infrastructure.

HARD SKILLS:

Researching

SOFT SKILLS:

Critical thinking

Decision-making

Study format: Online	**Study methods:** Real case studies, lectures, groups discussions and reflective examples
Study period: Spring 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Quiz, case study, debates, discussion board and research assignment
Provider: Catholic University of Valencia	**Stage of accreditation:** Internally validated by the UCV Governing Council

EU CONEXUS

Co-funded by the European Union

LANDSCAPES FOR EXPLORING LANGUAGE AND CULTURE

Sector: European	**Thematic area:** Intercultural communication/Multilingualism
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

Talking about space we live in has become essential, among others due to climate change, sustainability, and migrations for various reasons.
Learning about the linguistics of space can be one of the steps how to acknowledge and start seeking for solutions of various problems connected to the landscape.
The aim of this course is to teach students how to identify expressions of space used when talking about landscapes connected to sea, how to use them in an intercultural setting, how to address contemporary challenges from the linguistic perspective.

LEARNING OUTCOMES:

1. Define expressions that belong to the linguistics of space;
2. Relate these expressions with intercultural knowledge (through language contact, metaphorical concepts, cultural specificity).

SUSTAINABLE DEVELOPMENT GOALS:

- SDG4. Quality of education
- SDG8: Decent work and economic growth

HARD SKILLS:

Work with corpus

Linguistic knowledge

SOFT SKILLS:

Cooperation

Oral presentations

Study format: Online	**Study methods:** Lectures, discussions, groups and individual work
Study period: Spring 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Continual assesment, quizz, search of expressions and final presentation
Provider: University of Zadar	**Stage of accreditation:** Institutional accreditation

EU CONEXUS

Co-funded by the European Union

TRANSLATING RESEARCH INTO ACTION STRATEGIES FOR EFFECTIVE RESEARCH TRANSFER

Sector: University	**Thematic area:** Research transfer
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

The course "Translating Research into Action: Strategies for Effective Research Transfer" is designed to equip participants with the necessary knowledge and skills to bridge the gap between research findings and practical applications. In today's fast-paced world, it is crucial to ensure that valuable research is effectively transferred into actionable solutions that benefit society.

LEARNING OUTCOMES:

1. Differentiate between and describe various research transfer forms, including knowledge transfer, technology transfer, and policy transfer.
2. Describe the variables that affect the transfer of research.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG3: Good health and well-being
- SDG4: Quality of education

HARD SKILLS:

Research transfer

Intellectual property (IP) management

SOFT SKILLS:

Problem solving

Collaboration

Study format: Online	**Study methods:** Workshops, seminars, presentations, reflections, group work
Study period: Autumn 2024	**Synchronous contact hours:** 6 **Asynchronous hours & self directed learning:** 19
Entry requirements: Communication in English at a B2 level	**Assessment:** Quizzes, presentations, exercises, reflective essays
Provider: Frederick University	**Stage of accreditation:** Pending on national legislation

EU CONEXUS

Co-funded by the European Union

INNOVATIVE THINKING

Sector: University	**Thematic area:** Research and Innovation Thinking
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

The course will use the permaculture method as a way to experiment with innovative thinking.
Permaculture is based on meticulous observation and imitation of ecosystems and natural cycles. The course isn't about gardening, but it will use this relatively new concept of the nurturing garden to apply it to innovative thinking. In a context of accelerated urbanisation and climate change and resource scarcity, analytical thinking and innovation is critical. The course will promote critical thinking and analysis

LEARNING OUTCOMES:

1. Identify agility based on a grounded approach to current problems;
2. Determine a plan of the actual and ideal garden.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG3: Good health and well-being
- SDG12: Responsible consumption and production

HARD SKILLS:

Organising a project schematics

Observation

SOFT SKILLS:

Innovative thinking

Understanding your environment

Study format: Online	**Study methods:** Discussions, inductive and metaphorical approach, observation´s data
Study period: Autumn 2024	**Synchronous contact hours:** 0 **Asynchronous hours & self directed learning:** 25
Entry requirements: Communication in English at a B2 level	**Assessment:** Written reports, individual project
Provider: La Rochelle Université	**Stage of accreditation:** As part of the Diploma Supplement

EU CONEXUS

Co-funded by the European Union

TOOLS FOR DATA ANALYTICS

Sector: University	**Thematic area:** Smart learning
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

In a digital world, almost anything can be data. Data is an endless resource, and knowing how to turn data into useful and valid information can create added value for business and public sector. Analytical processes make raw data useful by translating those attributes into intelligence with purpose.
This course will equip talents from all disciplines with innovative research skills to meet the challenges of today's and tomorrow's world.

LEARNING OUTCOMES:

1. Demonstrate an understanding of innovative research methods.
2. Apply innovative research skills to tackle both todays and tomorrow's world challenges

SUSTAINABLE DEVELOPMENT GOALS:

- SDG4: Quality in education

HARD SKILLS:

Statistical analysis

Text analysis

SOFT SKILLS:

Problem solving

Creativity

Study format: Online	**Study methods:** Lectures, practice with software, individual project development
Study period: Spring 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Individual feedback
Provider: Klaipeda University	**Stage of accreditation:** Pending on national legislation

EU CONEXUS

Co-funded by the European Union

ENVIRONMENTAL LITERATURE

Sector: University	**Thematic area:** Enviromental and Science Education
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

Climate action, preservation of life on land and below water, transition to clean energy and responsible consumption are a necessity in today's world.
The aim of this course is to consider why does literary fiction matter in the context of discussions on climate change, investigate on how literary and cultural forms shape the ways in which people see and relate to the environment, understand how writers express their concerns about the environment within broader debates and discourses about it and see how fictional texts can help raising awareness and suggest new ways for thinking about climate change.

LEARNING OUTCOMES:

1. Recite and analyse climate fiction;
2. Use literary and cultural texts within wider debates and discourses on environment and climate change.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG13: Climate action
- SDG14: Life below water
- SDG15: Life on land

HARD SKILLS:

Presentation skills

Spoken languages

SOFT SKILLS:

Analytical & critical thinking

Active listening

Study format: Online	**Study methods:** Lectures, discussions, individual work.
Study period: Spring 2024	**Synchronous contact hours:** 8 **Asynchronous hours & self directed learning:** 17
Entry requirements: Communication in English at a B2 level	**Assessment:** Classrooms discussions, attendance and participation, final essay
Provider: University of Zadar	**Stage of accreditation:** Institutional accreditation

EU CONEXUS

Co-funded by the European Union

LUDIC CHINESE LANGUAGE LEARNING METHOD WITH TACTILE HYPA KEYBOARD

Sector: University	**Thematic area:** Professional Communication & Academic Writing
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

On shore cities are very often linguistic mixed societies. EU-Conexus also is such international institution.
By participating in this course, the students will learn not only important basis of Chinese language but also will do it in a ludic way allowing them to learn also sequences of meaningful gestures.

LEARNING OUTCOMES:

1. Show a basic knowledge of Chinese language;
2. Demonstrate a first level of oral proficiency.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG4: Quality education
- SDG10: Reduced inequalities
- SDG11: Sustainable Cities and Communities

HARD SKILLS:

Oral comprehension

Mastering digital tools

SOFT SKILLS:

Creative thinking

Communication

Study format: Online	**Study methods:** Phonetic initiation, writing, vocabulary and common gestures learning
Study period: Spring 2024	**Synchronous contact hours:** 0 **Asynchronous hours & self directed learning:** 25
Entry requirements: Communication in English at a B2 level	**Assessment:** Basic writing, translations, characters encoded indentification, practical registration
Provider: La Rochelle Université	**Stage of accreditation:** As part of the Diploma Supplement

EU CONEXUS

Co-funded by the European Union

NEUROSCIENCE AND ARTIFICIAL INTELLIGENCE

Sector: Smart	**Thematic area:** Cognitive systems and neuroscience
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

Natural Language Processing (NLP) can aid in identifying patterns in unstructured medical data, such as symptoms, diagnoses, treatment outcomes, and patient experiences. In the context of cognitive impairment detection, NLP algorithms can analyze speech patterns, written language, and electronic health records to identify linguistic markers that indicate cognitive decline. This has the potential to revolutionize early diagnosis and intervention strategies for conditions like Alzheimer's disease and dementia.
The course aims to equip students with the knowledge, skills, and practical expertise necessary to effectively utilize NLP techniques in the field of health science for the purpose of early and accurate detection of cognitive impairment in individuals

LEARNING OUTCOMES:

1. Demonstrate the fundamentals of Natural Language Processing;
2. Apply NLP basics to spontaneous language.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG3: Good health and well-being
- SDG5: Gender equality

HARD SKILLS:

AI for Neuroscience Research

Ethics

SOFT SKILLS:

Teamwork

Problem-solving

Study format: Online	**Study methods:** Study cases, presentations, group work
Study period: Spring 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Exercises, assignments, presentation
Provider: Catholic University of Valencia	**Stage of accreditation:** Internally validated by the UCV Governing Council

EU CONEXUS

Co-funded by the European Union

SYSTEMS THINKING AND SYSTEM DYNAMICS MODELING

Sector: Smart	**Thematic area:** Digital Humanities
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

Rapid changes in all spheres of our lives complicate the world. As recent WEF reports highlight, megatrends such as the emergence of a global economy, rapid urbanization, technological breakthroughs, climate change, and resource scarcity are shaping a whole new set of global risks for which our society must be better prepared.
Systems thinking is often referred to as the "cognitive skill of the 21st century" because it is important to learn a new way of thinking about this ever-changing, increasingly complex world and equip students with the skills they need to succeed in their future lives.

LEARNING OUTCOMES:

1. Demonstrate fresh knowledge of systems analysis principles and a deeper understanding of system dynamics methodology, including elements of causal loops and stock and flow diagrams, system archetypes and typical steps of simulation model development procedure;
2. Design system dynamics models of typical real-life situations, implement them in a computer-based simulation system, interpret and evaluate their results.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG4 (Quality education), SDG8 (Decent work and economic growth) & SDG11 (Sustainable cities and communities)

HARD SKILLS:

System dynamics diagramming methods

Design & application of simulation models

SOFT SKILLS:

Creative & critical thinking

Problem solving

Study format: Online	**Study methods:** Lectures, discussions, debates, causal loops and stock and flow diagramming, simulation of real-life situations, problem-based learning
Study period: Autumn 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Problem-solving tasks, models presentation, debates, final written exam.
Provider: Klaipeda University	**Stage of accreditation:** Pending on national legislation

EU CONEXUS

Co-funded by the European Union

USING AI WHEN WORKING WITH VERY LARGE DOCUMENT COLLECTIONS: OPPORTUNITIES AND RISKS

Sector: Smart	**Thematic area:** Digital Humanities
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

In the context of the digital transformation and subsequent technological breakthrough, the advent of AI and mass digitization provide us with access to a wealth of documents that were either out of reach or simply too numerous to grasp. While this is undeniable progress, it is important to note that advances due to AI and computer science should not be taken blindly, as they come with specific risks.
This course will focus on understanding the impact and risks of using digitised documents collections and/or automatically analysed collections for studies and research.

LEARNING OUTCOMES:

1. Demonstrate a critical thinking in using tools and datasets and understanding hermeneutics;
2. Show knowledge of the concept of digital humanities.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG4: Quality education
- SDG9: Industry, innovation and infrastructure.

HARD SKILLS:

Understanding NewsEye project

Using digital libraries

SOFT SKILLS:

Critical thinking

Cross-cultural collaboration

Study format: Online	**Study methods:** Online material and lectures, independent work
Study period: Spring 2024	**Synchronous contact hours:** 0 **Asynchronous hours & self directed learning:** 25
Entry requirements: Communication in English at a B2 level	**Assessment:** Online test and individual reports
Provider: La Rochelle Université	**Stage of accreditation:** Pending on national legislation

EU CONEXUS

Co-funded by the European Union

INTRODUCTION TO FILM LITERACY AND FILMMAKING

Sector: Smart	**Thematic area:** Digital Marketing & Communication
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

In recent years, private and public communication and digital marketing have largely been based on the creation, sharing and viewing of films of various contents and purposes. Covid-19 pandemic strengthened this trend, when many individuals and organizations for the first time started to communicate with people through films which they made themselves. However, in order to communicate through films, those who have aspirations and needs to take on the role of filmmakers should possess different knowledge, skills and competences to create informative, educational, convincing and entertaining films. This micromodule will introduce participants to basic elements of film literacy and filmmaking.

LEARNING OUTCOMES:

1. Perform shooting and editing of films at the basic level;
2. Describe and demonstrate an understanding of the possibilities of different technologies used in filmmaking.

SUSTAINABLE DEVELOPMENT GOALS:

All 17 goals of the UN could be described and explained in detail, as well as convincingly advocated and promoted with various types of films.

HARD SKILLS:

- Basic film shooting skills
- Basic film editing skills

SOFT SKILLS:

- Problem solving
- Creativity

Study format: Online	**Study methods:** Lectures, practical activities and group dicussions
Study period: Spring 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Assignments related to filmmaking and knowledge test
Provider: University of Zadar	**Stage of accreditation:** Institutional accreditation

EU CONEXUS

Co-funded by the European Union

UAS PRINCIPLES, DATA MODELING AND ANALYSIS

Sector: Smart	**Thematic area:** Digital Humanities
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

Digital space has evolved from pixelated representations of real-world objects to exact photorealistic digital copies. The methods to create digital objects and scenery has evolved as well. To design a single realistic digital object of life-like quality often requires hours and hours of modeling and texturing. What if there was another way? What if the object could instead be scanned into the computer, capturing its exact shape and texture? Data Modeling helps to solve complex problems and affects all aspects of life.
This course will equip students with knowledge and operational tools in order to develop their professional career in UAS Principles and Data Modeling and Analysis.

LEARNING OUTCOMES:

1. Demonstrate knwoledge on operating a UAS and flying procedures, data expectancy and analysing by specific tools.
2. Identify UAS pre-flight requirements, designing the UAS flight planning, identifying steps about UAS data acquisition.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG4: Quality education
- SDG9: PIndustry, innovation and infrastructure

HARD SKILLS:

Technology use

Technological literacy

SOFT SKILLS:

Analytical thinking

Curiosity

Study format: Online	**Study methods:** Lectures, case studies, dicussions, tutorials, presentations
Study period: Spring 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Independent research, quizzes, team presentations, group project
Provider: Technical University of Civil Engineering Bucharest	**Stage of accreditation:** Part of a Bachelor program accredited by UTCB and by Romanian Agency for Quality Assurance in Higher Education (ARACIS)

EU CONEXUS

Co-funded by the European Union

SMART GREEN CITIES: INNOVATIONS FOR SUSTAINABLE URBAN DEVELOPMENT

Sector: Urban	**Thematic area:** Smart green cities
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

The course aims to explore the intersection of technology, sustainability, and urban planning to equip participants with the skills and insights needed to contribute to sustainable urban solutions.

LEARNING OUTCOMES:

1. Demonstrate the core principles of urban planning and the integration of smart infrastructure technologies within urban settings.
2. Acquire familiarity with the application of renewable energy systems in the development of sustainable cities.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG 7: Affordable and Clean Energy
- SDG 11: Sustainable Cities and Communities
- SDG 13: Climate Action

HARD SKILLS:

Technological integration

Energy management

SOFT SKILLS:

Critical thinking

Adaptability

Study format: Online	**Study methods:** Lectures, workshops, case study analysis
Study period: Autumn 2024	**Synchronous contact hours:** 3 **Asynchronous hours & self directed learning:** 22
Entry requirements: Communication in English at a B2 level	**Assessment:** Individual/group assignments
Provider: Frederick University	**Stage of accreditation:** Pending on national legislation

EU CONEXUS

Co-funded by the European Union

INNOVATIVE HERITAGE RESORTS AS SUSTAINABLE ECOSYSTEMS

Sector: Urban	**Thematic area:** Modernisation and Heritage protection
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

The idea of innovation is not only based on digitalization but also on shared (networked) governance. Creatively generated innovative ideas can be implemented as creative industries that both will improve the sustainability of the resort and help to compete with resorts alike.

This course will provide knowledge and skills on the sustainable development and innovations (social and digital) for heritage resorts that can increase the value and attractiveness of these resorts through becoming modern and sustainable ecosystems

LEARNING OUTCOMES:

1. Demonstrate a deeper understanding of the concept of sustainable development in the context of 21st century governance;
2. Discuss the creative industry's sub-sectors as a potential for innovative services and interpret them in a sample resort.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG9: Industry, innovation and infrastructure
- SDG11:Sustainable cities and communities

HARD SKILLS:

Focus group or World café methods

Concept mapping

SOFT SKILLS:

Consensus building in networking

Decision making

Study format: Online	**Study methods:** Active listening, discussions presentations, ideas design, readings
Study period: Spring 2024	**Synchronous contact hours:** 15 **Asynchronous hours & self directed learning:** 10
Entry requirements: Communication in English at a B2 level	**Assessment:** Reports, presentations, assignments
Provider: Klaipeda University	**Stage of accreditation:** Pending on national legislation

EU CONEXUS

Co-funded by the European Union

SUSTAINABLE AND SMART CITIES. AN INTRODUCTION

Sector: Urban	**Thematic area:** Smart Green cities
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

In an era of rapid urbanisation and unprecedented global challenges, the concept of smart and sustainable cities has emerged as a bright and hopeful spot. Cities are not just centres of commerce and culture; they are at the forefront of tackling some of humanity's most pressing problems.
This course will provide learners with a foundational understanding of key concepts and principles related to urban sustainability and smart city technologies.

LEARNING OUTCOMES:

1. Demonstrate the core principles of sustainable and smart cities;
2. Discuss the role of energy efficiency and RES in smart cities, analyze sustainable transportation options, explore and create smart mobility solutions, examine and generate green infrastructure solutions.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG8: Decent work and economic growth
- SDG9: Industry, innovation and infrastructure
- SDG11:Sustainable cities and communities

HARD SKILLS:

Analysing solutions on sustainable energy and transport

Analysing policies for smart and sustainable cities

SOFT SKILLS:

Cooperation

Problem thinking

Study format: Online	**Study methods:** Lectures, case studies, interactive learning, visual aids.
Study period: Spring 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Exercises, presentations, case study analysis, creative solutions
Provider: Technical University of Civil Engineering Bucharest	**Stage of accreditation:** Part of a Bachelor program accredited by UTCB and by Romanian Agency for Quality Assurance in Higher Education (ARACIS)

EU CONEXUS

Co-funded by the European Union

CYBERSECURITY FOR SMART PORTS & SHIPPING ORGANIZATIONS

Sector: Coastal	**Thematic area:** Smart Ports
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

The cybersecurity landscape is fast evolving, driven by a reinforcing feedback loop of increasingly sophisticated attacks and defences. On top of their asymmetrical "attacker's advantage", threat actors have matured their organizational structures to facilitate information sharing, specialized techniques, and dark markets for buying or selling exploits, vulnerabilities, services, and training on how to circumvent detection or defence systems.
This course will train a next generation of professionals that will advance cybersecure digitalization for sustainable smart ports and maritime industries.

LEARNING OUTCOMES:

1. Demonstrate a good level of knowledge of cybersecurity jargon, tools and methodologies;
2. Assess organization (Port/Maritime) security posture, plan & execute stable, compliant & cybersafe operations.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG9: Industry, innovation and infrastructure

HARD SKILLS:

Security posture analysis

Identified threats mitigation

SOFT SKILLS:

Decision making

Critical thinking

Study format: Online	**Study methods:** Debates, formal lectures, hands-on lab tasks
Study period: Autumn 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Quizzes, individual/group research, presentations
Provider: Klaipeda University	**Stage of accreditation:** Pending on national legislation

EU CONEXUS

Co-funded by the European Union

BUILD WITH NATURE - TECHNIQUES FOR SANDY COASTS

Sector: Coastal	**Thematic area:** Anatomy of coastal areas
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

The course "Build with Nature" techniques for sandy coasts will provide students with a range of technical, legal, and professional competences such us analytic thinking, complex problem solving, critical thinking and analysis, reasoning, problem solving. These competences include GIS, environmental law and policy, project planning and management, and social and cultural considerations.

LEARNING OUTCOMES:

1. Demonstrate a deep understanding of coastal processes and assessment of coastal risks;
2. Present innovative solutions for coastal enviroment protection and managment.

SUSTAINABLE DEVELOPMENT GOALS:

- SD13: Climate action
- SDG15: Life on land
- SDG4: Quality education

HARD SKILLS:

Data analysis

Research and reporting

SOFT SKILLS:

Problem solving

Creative & critical thinking

Study format: Online	**Study methods:** Debates, lectures, project-based learning
Study period: Autumn 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Tests, deliverables, presentation, final exam
Provider: Klaipeda University	**Stage of accreditation:** Pending on national legislation

EU CONEXUS

Co-funded by the European Union

UNDERWATER CULTURAL HERITAGE AS A TOURIST RESOURCE

Sector: Coastal	**Thematic area:** Coastal tourism
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

Europe's rich underwater cultural heritage is a valuable tourist resource, which has not been sufficiently exploited. Underwater sites belong to different periods, from prehistory to modern age, and are usually very attractive for underwater or land presentation.
The aim of the course is to teach students how to recognize the potential of the underwater cultural heritage, and how to include it in the tourist offers in various situations and under various conditions.

LEARNING OUTCOMES:

1. Classify underwater cultural heritage, and its potential for tourist presentation;
2. Identify underwater cultural heritage sites for potential tourist presentation.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG5 : Gender equality
- SDG14 : Life below water

HARD SKILLS:

Project Management

Interpreting data

SOFT SKILLS:

Communication skills

Critical thinking

Study format: Online	**Study methods:** Lectures, group and individual work, discussions
Study period: Spring 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Discussions, presentations, group research
Provider: University of Zadar	**Stage of accreditation:** Institutional accreditation

EU CONEXUS

Co-funded by the European Union

MAKING SUSTAINABLE FASHION TRENDY

Sector: Sustainability	**Thematic area:** Sustainable Consumption
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

The aim of the course is to raise awareness of the consequences of fashion production and consumption and to start taking steps towards a (more) sustainable lifestyle.

LEARNING OUTCOMES:

1. Identify and explain the impact of fast fashion and fashion consumption for the planet;
2. Analyze the sustainability practices within the fashion industry.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG12: Responsible consumption & production
- SDG1: No poverty
- SDG6: Reduce water & sanitation
- SDG2: Reduce inequalities

HARD SKILLS:

Researching

Problem-solving

SOFT SKILLS:

Decision making

Critical thinking

Study format: Online	**Study methods:** Group discussions, research project, case study, presentations
Study period: Spring 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Research project and its presentation
Provider: Catholic University of Valencia	**Stage of accreditation:** Internally validated by the UCV Governing Council

EUCONEXUS

GREEN COMPETENCES 4 ALL

Co-funded by the European Union

Sector: Sustainability	**Thematic area:** Green skills
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

The aim of this unit is to develop green competences to participants regardless their background using competences of the European GreenComp framework. The course intends to help learners develop knowledge, skills and attitudes concerning the issue of climate change (SDG13), that promote ways to think, plan and act with empathy, responsibility, and care for our planet. The GreenComp competences this course focuses on are Systems thinking and futures thinking.

LEARNING OUTCOMES:

1. Identify and explain the causes of climate change and discuss the systemic connections - consequences on the environment, the society and the economy, locally and globally.
2. Suggest different possible solutions – scenarios and identify the most appropriate ones for climate change mitigation.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG12: Climate action
- SDG17: Partnerships for the goals

HARD SKILLS:

Monitoring & Evaluation

SOFT SKILLS:

Attention to detail

Creative & critical thinking

Study format: Online	**Study methods:** Discussions, role-plays, simulation activities
Study period: Autumn 2024	**Synchronous contact hours:** 4 **Asynchronous hours & self directed learning:** 21
Entry requirements: Communication in English at a B2 level	**Assessment:** Group project
Provider: Frederick University	**Stage of accreditation:** Pending on national legislation

EU CONEXUS

Co-funded by the European Union

MANAGEMENT STRATEGIES OF PLANT DIVERSITY FOR SUSTAINABLE DEVELOPMENT

Sector: Sustainability	**Thematic area:** Sustainable Management
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

This learning unit will offer a general, and interdisciplinary approach on the main strategies for the management of wild plants as a resource for sustainable economic development. This background will provide the principles of plant diversity management to achieve the global food security, preservation and use of genetic resources for industries, under the principles of the UN Sustainable Development Goals.

LEARNING OUTCOMES:

1. Comprehend the updated strategies in plant diversity management
2. Identify the most suitable resource or strategy for organization, development, and innovation in some fields of applications.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG1: No poverty
- SDG2: Zero hunger
- SDG12: Responsible consumption & production
- SDG15: Life on land

HARD SKILLS:

Plant diversity management

Data analysis

SOFT SKILLS:

Communication

Problem solving

Study format: Online	**Study methods:** Lectures and case-study exercises.
Study period: Spring 2024	**Synchronous contact hours: 10** **Asynchronous hours & self directed learning: 15**
Entry requirements: Communication in English at a B2 level	**Assessment:** Multiple choice test, case study exercise
Provider: Catholic University of Valencia	**Stage of accreditation:** Internally validated by the UCV Governing Council

EU CONEXUS

Co-funded by the European Union

TRADITIONAL TIMBER HOUSES CARPENTRY IN SEISMIC AND COASTAL AREAS

Sector: Sustainability	**Thematic area:** Technologies for Sustainable Development
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

The traditional houses represent a part of the cultural identity of each country, adapted to the local climate and material availability.
The course aims to present the main materials that were used for traditional houses, structural layout and construction technology secrets and wisdom transferred to us from long time ago by our ancestors who learned in time what details are better and how to adapt to local environment.

LEARNING OUTCOMES:

1. Understand the taxonomy of existing traditional houses;
2. Identify the different construction details in terms of impact in the seismic/coastal climate resistance.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG11: Sustainable cities and communities
- SDG12: Responsible consumption and production

HARD SKILLS:

Recognize structural characteristics of traditional timber houses

SOFT SKILLS:

Organisation

Collaboration

Study format: Online	**Study methods:** Reflective learning, group work
Study period: Spring 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Case study discussions, scientific paper analysis
Provider: Technical University of Civil Engineering Bucharest	**Stage of accreditation:** Part of a Bachelor program accredited by UTCB and by Romanian Agency for Quality Assurance in Higher Education (ARACIS)

EU CONEXUS

Co-funded by the European Union

SDGS - THE BLUE PRINT FOR THE SUSTAINABLE DEVELOPMENT

Sector: Sustainability	**Thematic area:** SDGs
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

Today our activities are increasingly complex and our context (economic, social, environmental, technological etc.) is constantly evolving. In addition to competencies associated to our specialization, we need to keep up with the pace of the context dynamics. The aim of the course is to equip students with knowledge and operational tools in order to develop their professional career in the sustainability arena: comprehensive understanding of SDGs, awareness of global challenges, and understanding of the importance of integrating sustainability into economic activities/business models for the benefit of society.

LEARNING OUTCOMES:

1. Demonstrate a critical understanding of sustainability (goals) at local, European and global level;
2. Illustrate incorporation of specific SDGs at organisation level.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG 4 – Quality Education
- SDG 8 – Decent Work and Economic Growth

HARD SKILLS:

Sustainability reporting and compliance

SOFT SKILLS:

Systems thinking

Problem solving

Study format: Online	**Study methods:** Lectures, presentations, case-studies, plenary reflections
Study period: Spring 2024	**Synchronous contact hours:** 10 **Asynchronous hours & self directed learning:** 15
Entry requirements: Communication in English at a B2 level	**Assessment:** Tests, team presentation
Provider: Technical University of Civil Engineering Bucharest	**Stage of accreditation:** Part of a Bachelor program accredited by UTCB and by Romanian Agency for Quality Assurance in Higher Education (ARACIS)

EU CONEXUS

Co-funded by the European Union

CLIMATE ADAPTATION ENGINEERING

Sector: Sustainability	**Thematic area:** Climate change and resilience
Volume (ECTS): 1 (25h)	**Language:** English

DESCRIPTION:

The course explores the measures implemented to minimize vulnerability and enhance the resilience of built infrastructure. Students will learn about various strategies such as improving design standards, strengthening structures, utilizing innovative materials, and modifying inspection and maintenance practices, among others. The course delves into the impact of climate change variables on infrastructure and examines risk-management policies through the lens of real-world case studies. The instructor of this course also adopts a forward-thinking approach by addressing multiple facets of climate change. The content is presented in a manner that is easily understandable to students, emphasizing practical decision-making outcomes.

LEARNING OUTCOMES:

1. Recognise the risks posed by climate change to infrastructure:
2. Determine adaptation strategies for various infrastructures.

SUSTAINABLE DEVELOPMENT GOALS:

- SDG9: Industry, innovation and infrastructure
- SDG11: Sustainable cities and communities

HARD SKILLS:

Understanding the impact of climate change on the built environment

SOFT SKILLS:

Decision making

Problem solving

Study format: Online	**Study methods:** Online lectures, individual work
Study period: Autumn 2024	**Synchronous contact hours:** 0 **Asynchronous hours & self directed learning:** 25
Entry requirements: Communication in English at a B2 level	**Assessment:** Online tests, individual reports
Provider: La Rochelle Université	**Stage of accreditation:** Pending on national legislation