

UNIVERSITATEA DIN ORADEA
**Facultatea de Geografie,
Turism și Sport**

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Nr. 158 Din 24.11.2025

Averea 12.
U.S. 31/12.12.2025

Către,

Consiliul de Administrație al Universității din Oradea spre avizare

Senatul Universității din Oradea spre aprobare

Prin prezenta vă rugăm să ne aprobați avizarea Planului de învățământ *Blended Intensive Programme* (BIP), cu titlul „Smart, Sustainable and Resilient Cities, by Managing Hazards and Risks”, care se va desfășura în perioada 9-20 martie 2026 și este coordonat de prof. univ. dr. habil. Morar Cezar.

Acest BIP are următoarea structură:

- Participare online: 9-13 martie 2026;
- Participare fizică în perioada: 16-20 martie 2026.

Partenerii din cadrul acestui BIP sunt:

- Universitatea din Oradea (coordonator)
- Universitatea din Enna “Kore” (Italia)
- Universitatea Mediterraneană din Reggio Calabria (Italia)
- Universitatea din Cagliari (Italia)
- Universitatea din Poznań de Științe ale Vieții (Polonia)
- University of Gdańsk (Polonia)



Vă mulțumim!

Data 21.11.2025

Facultatea de Geografie, Turism și Sport

Decan

Prof. univ. dr. Ilies Alexandru



Departamentul de Geografie,
Turism și Amenajarea Teritoriului

Director

Conf. univ. dr. Josan Ioana

Coordonator BIP

*Smart, Sustainable and Resilient
Cities, by Managing
Hazards and Risks*

Prof. univ. dr. habil. Morar Cezar

Pt aviz CA și aprobare SUO
Prorector MA



CURRICULUM

Valid from academic year 2025-2026

UNIVERSITY OF ORADEA

FACULTY OF GEOGRAPHY, TOURISM AND SPORT
Department of Geography, Tourism and Territorial Planning
Blended Intensive Program (BIP):

Smart, Sustainable and Resilient Cities, by Managing Hazards and Risks

Duration of studies / no. of credits: 2 weeks / 3 ECTS credits



1. MISSION OF THE STUDY PROGRAM (BIP) - Smart, Sustainable and Resilient Cities, by Managing Hazards and Risks

This BIP proposes a European collaboration to share resources and best practices for enhancing and creating state-of-the-art university educational programs, supporting in the same time smart, sustainable and resilient urban areas, by addressing hazards that are impacted especially by climate change, together with ways to reduce and manage associated risks. At the same time the methodological efforts will be concerned on sharing best practices by exchanging relevant ideas, methods, and strategies, investigating at the same time diverse perspective over global smart cities using case studies. This project is designed by a consortium of six institutions represented by seasoned and younger researchers from three nations: Romania, Italy and Poland, each bringing their valuable expertise for providing input to a common methodological framework for an appropriate understanding of smart city planning and hazards & risks management. This international multi-partner project is a first step towards creating collaborations and developing and implementing some of the best practices and tools that can be applied across borders and continents. The project incorporates a broad range of educational and research opportunities for students. In addition, this project intends to enhance stronger links among municipalities, stakeholders and end-users involved in smart city planning in the participating countries and among the participating institutions. Furthermore, the project has a broader applicability beyond the partner countries as the topics addressed are of global concern in many developed and developing countries.

2. OBJECTIVES OF THE STUDY PROGRAM / BIP - Smart, Sustainable and Resilient Cities, by Managing Hazards and Risks

The criticality and vulnerability of urban environments to disasters is a serious challenge for the densely populated European cities. In this context, understanding the multi-hazards potential in an urban context, together with addressing the combination of factors driving the associated risk processes is a key sustainability component. Implementing smart cities solutions support the cities in their effort of becoming more resilient and livable, by using technology and data to enhance urban services efficiency, to improve infrastructure and to better manage resources, enhancing this way the overall decision-making process.

The main objective of this project is to develop educational state-of-the-art teaching activities & practices for enhancing knowledge on the *Smart, Sustainable and Resilient Cities, by Managing Hazards and Risks* in the European Union countries and beyond. The project will establish an interdisciplinary and intercultural expert forum for the exploration of both the theory and practice of the concepts involved.

Objectives:

- 1) to promote sustainable state-of-the-art university educational systems;
- 2) to increase the prestige of the participating universities;
- 2) to support effective high level didactic activities;
- 3) to increase the quality of the staff for improved educational services;
- 4) to enhance the students' academic and professional potential;
- 5) to encourage innovation by inspiring the participants to explore innovative scientific approaches and technologies;
- 6) to understand the evolution of sustainability and resilience phenomenon in urban research, understanding also smart city technologies;
- 7) to integrate the Smart City approach to holistically envision the planning of sustainable communities for meeting the social needs, expanding the economy & protecting the environment;
- 8) to enhance cooperation among academic, local authorities & other stakeholders on issues of common interest;
- 9) to establish a Smart City Trans-European Educational and Research Network (SC-TEERN) through the participating institutions to ensure that the high-quality education and research opportunities will extend far beyond the program period;
- 10) to promote a trans-European dialog & collaborative relationship that spans across different cultures, institutions & diverse regulatory infrastructure.
- 11) to build practical cooperation between various European and worldwide partner countries;
- 12) to emphasize the importance of creating inclusive educational environments for everyone in need.



3. COMPETENCES THAT GRADUATES WILL OBTAIN UPON COMPLETION OF STUDIES

Professional competences:

1. Ability to collect, analyze, and leverage complex urban data (e.g., Big Data, GIS, real-time sensor information) to inform evidence-based planning and decision-making for city optimization;
2. Proficiency in integrating and managing advanced urban technologies to develop resilient and digitally-enabled infrastructure systems;
3. Skill in designing and implementing smart and sustainable mobility solutions that utilize technology to optimize public transit, reduce congestion, and enhance multimodal urban accessibility;
4. Capacity to identify and drive innovation processes by applying creative problem-solving methodologies to develop novel solutions for pressing urban challenges;
5. Expertise in managing and coordinating complex, multidisciplinary projects within dynamic urban ecosystems;
6. Competence in developing and integrating risk mitigation and hazard preparedness strategies into urban planning and policymaking;
7. Critical understanding and ability to address key social, cultural, and environmental challenges necessary for the development, governance, and long-term sustainability of modern cities.

Transversal competences:

1. Demonstrated capacity for continuous self-assessment and proactive engagement in life-long learning, recognizing the need to adapt skills and knowledge in response to rapidly evolving professional and technological landscapes;
2. Commitment to upholding the highest standards of ethics, integrity, and professional deontology in all academic and professional activities;
3. Proficiency in efficient task management, organization, and execution of a successful plan;
4. Skillful application of appropriate communication techniques (written, verbal, and visual) and effective documentation practices.



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Duration of studies / no. of credits: 2 weeks / 3 credits (ECTS)

Valid from academic year
2025-2026

CURRICULUM

Modules	Hours				Evaluation	Credits	IS (hours)
	C	S	L	P			
Smart Cities and Sustainability	6	-	-	4	CV	1	15
Urban Analytics and Resilience	6	-	-	4	CV	1	15
Urban Risks Management	6	-	-	4	CV	1	15
TOTAL	18	-	-	12	-	3	45

Legend: C - Course; S - Seminar; L - Practical works (laboratory); P - Project.
Evaluation. - form of evaluation; Cv - colloquium; Credits - number of ECTS credits; IS - Individual Study.

ONE CREDIT POINT REQUIRES A TOTAL OF 25 HOURS OF STUDY

Study program responsible,
Professor Dr. Habil.
Cezar MORAR

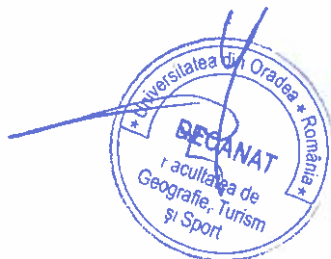
Morar



Head of department,
Associate Professor Dr.
Ioana JOSAN

Josan

Dean FGTS,
Professor
Alexandru ILIEȘ



Rector,
Professor Dr. Habil.
Constantin BUNGĂU



FACULTY OF GEOGRAPHY, TOURISM AND SPORT
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Duration of studies / no. of credits: 2 weeks / 3 credits

Valid from academic year
2025-2026

DISTRIBUTION OF THE VIRTUAL AND IN PRESENCE ATTENDANCE

Modules	Hours					Evaluation	Credits	IS (hours)
	VT	VP	PT	VP	Total			
Smart Cities and Sustainability	2	-	4	4	10	CV	1	15
Urban Analytics and Resilience	2	-	4	4	10	CV	1	15
Urban Risks Management	2	-	4	4	10	CV	1	15
SUBTOTAL	6	-	12	12	30	-	3	45
TOTAL	6		24		30			

Legend:

C - Course; S - Seminar; L - Practical works (laboratory); P - Project.

Evaluation. - form of evaluation; Cv - colloquium; Credits - number of ECTS credits;

IS - Individual Study;

VT=virtual theory, VP=virtual practice, PT=in presence theory, PP=in presence practical,

Study program responsible,
Professor Dr. Habil.
Cezar MORAR

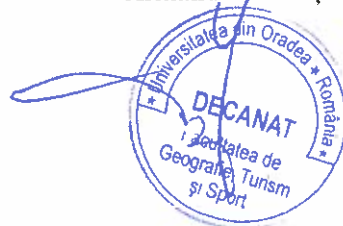
Morar



Head of department,
Associate Professor Dr.
Ioana JOSAN

Josan

Dean FGTS,
Professor
Alexandru ILIEȘ




Rector,
Professor Dr. Habil.
Constantin BUNGAU




Blended Intensive Programme (BIP)

Title	Smart, Sustainable and Resilient Cities, by Managing Hazards and Risks	
Category	Students	
Parteners	<ul style="list-style-type: none"> -University of Oradea (coordinator) -University of Enna "Kore" (Italy) -University of the Mediterranean of Reggio Calabria (Italy) -University of Cagliari (Italy) -Poznań University of Life Sciences (Poland) -University of Gdańsk (Poland) 	
Priorities Addressed	Environment and fight against climate change	
Objectives & Description	<p>Description</p> <p>The criticality and vulnerability of urban environments to disasters is a serious challenge for the densely populated European cities. In this context, understanding the multi-hazards potential in an urban context, together with addressing the combination of factors driving the associated risk processes is a key sustainability component. Implementing the smart cities solutions supports the cities in their effort of becoming more resilient and livable, by using technology and data to enhance urban services efficiency, to improve infrastructure, to better manage resources and to enhance the decision-making process.</p> <p>The overall objective of this project is to develop educational state-of-the-art teaching activities & practices for enhancing knowledge on <i>the Smart, Sustainable and Resilient Cities, by Managing Hazards and Risks</i> in the European Union countries and beyond. The project will establish an interdisciplinary & intercultural expert forum for the exploration of both the theory and practice the involved concepts.</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1) to promote sustainable state-of-the-art university educational systems; 2) to increase the prestige of the participating universities; 2) to support effective high level didactic activities; 3) to increase the quality of the staff for improved educational services; 	Max 5.000 characters



	<p>4) to enhance the students' academic and professional potential;</p> <p>5) to encourage innovation by inspiring the participants to explore innovative scientific approaches and technologies;</p> <p>6) to understand the evolution of sustainability and resilience phenomenon in urban research, understanding also smart city technologies;</p> <p>7) to integrate the Smart City approach to holistically envision the planning of sustainable communities for meeting the social needs, expanding the economy & protecting the environment;</p> <p>8) to enhance cooperation among academic, local authorities & other stakeholders on issues of common interest;</p> <p>9) to establish a Smart City Trans-European Educational and Research Network (SC-TEERN) through the participating institutions to ensure that the high-quality education and research opportunities will extend far beyond the program period;</p> <p>10) to promote a trans-European dialog & collaborative relationship that spans across different cultures, institutions & diverse regulatory infrastructure.</p> <p>11) to build practical cooperation between various European and worldwide partner countries;</p> <p>12) to emphasize the importance of creating inclusive educational environments for everyone.</p>	
<p>Methods & Outcomes</p> 	<p>Methods</p> <p>This BIP proposes a European collaboration to share resources, best practices & methodologies for enhancing and creating state of the art university educational programs, supporting in the same time smart, sustainable and resilient urban areas, by addressing hazards that are impacted especially by climate change, together with ways to reduce and manage associated risks. In the same time the methodological efforts will be concerned on sharing best practices by exchanging relevant ideas, methods, and strategies, investigating in the same time diverse perspective over global smart cities using case studies. This project provides input to a common methodological framework for an appropriate understanding of smart city planning and hazards & risks management. This international multi-partner project is a first step towards creating collaborations and developing and implementing some of the best practices and tools</p>	<p>Max 5.000 characters</p>

	<p>that can be applied across borders and continents. The project incorporates a broad range of educational and research opportunities for students. In addition, this project intends to enhance stronger links among municipalities, stakeholders and end-users involved in the smart city planning in the participating countries and among the participating institutions. Furthermore, the project has a broader applicability beyond the partner countries as the topics addressed are of global concern in many developed and developing countries.</p> <p>Outcomes</p> <p>A great outcome following implementation is connected to highly competitive students. At professional level they will have their academic and research skills improved. At personal level getting acquainted with other languages and cultures, the capacity to adapt and work in multicultural environments is increased, not to mentioned that the BIP represents a a great added value opportunity in the life learning continuous professional development process. Several other outcomes are connected to experience in joint international activities and projects, develop international student networking, exchange of best practice and know-how, spin-off effects by overcoming international borders and also mobility and multi-cultural environment stimulate creativity.</p> <p>For professors and staff involved, further research projects are anticipated, together with further international networking opportunities and exchange of best practices and knowledge. This BIP is an instrument for raising the quality of professional education and the adjustment of professional competences to labour market demands. Increasing mobility means new learning approaches, higher employability and better competences. The Romanian, Italian and Polish cooperation will bring its contribution towards the strengthening the European Union cooperation.</p>	
Field of Education	Earth Sciences	
Level of Study	Bachelor	
Physical start date	16 March 2026	
Physical end date*	20 March 2026	
Virtual component description	The virtual component will be implemented by distant and updated technologies for innovative teaching methods, supporting the educational performance.	Max 5.000 characters

Virtual component timing	Before	
Dates virtual component	9-13 March 2026	
Field of Education	Earth Sciences	
Number of ECTS awarded	3	3 - 6 ECTS
Number of teachers delivering the programme	University of Oradea Professor PhD Habil. Morar Cezar (Coordinator) Professor Ilieş Alexandru Professor PhD Habil. Ilieş Dorina Camelia Associated Professor PhD Grama Vasile Assistant Professor PhD Caciora Tudor Assistant Professor PhD Nistor Stelian Assistant Professor PhD Deac Anca University of Enna “Kore” (Italy) Associated Professor PhD Habil. Celestina Fazio Associated Professor PhD Habil. Tiziana Campisi University of the Mediterranean of Reggio Calabria (Italy) Professor PhD Habil. Clarastella Vicariaversa Professor PhD Habil. Marcello Sestito University of Cagliari (Italy) Associated Professor Habil. PhD Chiara Garau Poznań University of Life Sciences (Poland) Associated Professor PhD Habil Jan Barabach PhD Joanna Kocięcka University of Gdańsk (Poland) Professor PhD Habil. Jan Wendt Professor PhD Habil. Agnieszka Bógdał-Brzezińska	
Number of Participants	15 students	
Number of countries of the Participants	3 (Romania, Poland, Italy)	
Number of HEIs in the Partnership	6	

