



UNIVERSITATEA  
DIN  
CRAIOVA



**FIELD OF STUDY:  
GEOGRAPHY**

MASTER  
PROGRAMME:

## **SMART REGIONAL DEVELOPMENT**

Language: **English**

Official length of the  
programme of study and  
number of ECTS credits

**2 years**

**60 ECTS credits/year**

**120 credits accumulated before final  
examination**

**Mode of study:**

*Full time study*

**Access requirement(s):**

*Bachelor's degree Diploma or  
equivalent and admission exam*

Registration (April -July),  
documentation check, admission  
(July), enrollment (July-  
September)

**Register at:**

[https://www.ucv.ro/admitere/romani/inscriere\\_online.php](https://www.ucv.ro/admitere/romani/inscriere_online.php)

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## Mission

The mission of the Smart Regional Development master's program at the University of Craiova is to train specialists capable of designing, implementing and managing strategies, policies and projects for sustainable and smart territorial development, in line with European and national strategic directions, by capitalizing on smart technologies, spatial data and collaboration between local and regional actors. The program responds to the increasingly acute need for the transformation of regions through digitalization, innovation and territorial cohesion, actively contributing to the sustainable development of the South-West Oltenia region and other regions in Romania and the European Union, capable of responding to new demographic, economic, climatic and social challenges.

### This programme:

- *Supports the commitment of the University of Craiova to contribute to the sustainable development of the Southwest Oltenia region;*
- *Strengthens the profile of regional excellence and internationalization of the university;*
- *Ensures the training of skills adapted to the labour market and the demands of contemporary society;*
- *Promotes inter-institutional collaboration, especially with public administration, the economic environment and local and regional organizations*



## LEARNING OUTCOMES

### Professional competences:

- manages data in the research field;
- gathers data;
- demonstrates discipline expertise;
- abstract thinking;
- applies principles of ethics and scientific integrity in research activities;
- applies scientific methods;
- carries on qualitative research;
- carries on quantitative research;
- applies techniques of statistical analysis;
- interacts professionally in research and professional environments;
- interprets present data;
- approaches problems critically;
- computer skills;
- uses geographic information systems;
- identifies tendencies in geographic data;
- collects data using GPS.

### Transversal competencies:

- thinks analytically;
- critical thinking;
- works independently.



Knowledge	Skills	Responsibility and Autonomy	Courses Contributing to Learning Outcomes
In-depth understanding of concepts such as regional development, territorial cohesion, and European and national public policies	Critical analysis of regional disparities and their causes; development and implementation of regionally adapted strategies	Ability to develop policies and make decisions independently, taking responsibility for their impact	Foundations of Smart Territorial Development EU Regional Development Policy
Regional analysis methods, use of GIS systems and socio-economic indicators, models of territorial and urban development	Evaluation of a region's development potential; designing data-based solutions	Making informed initiatives and decisions in complex contexts, taking responsibility for data accuracy	GIS Use in Territorial Analysis Digital Tools for Smart Regional Development Web Mapping
Smart technologies applicable in regional development, strategies for green and digital transitions	Integration of smart technologies in territorial projects and development of sustainable initiatives	Independent design and management of innovative initiatives, with responsibility for their social and environmental effects	Digital Tools for Smart Regional Development Web Mapping
Scientific basis of climate change, regional climate effects, adaptation strategies	Analysis of territorial vulnerability to climate change; design of local adaptation and mitigation strategies	Work independently in interdisciplinary contexts and take professional responsibility for decisions on intervention priorities affecting resources, population, and territory in the context of sustainable development and climate adaptation	Climate Change, Mitigation and Adaptation Climate Change, Agriculture and Food Security Water Management and Adaptation to Climate Change
Principles of smart development applied to natural resources; types of natural resources and their management	Qualitative and quantitative assessment of natural resources; creation of sustainable management plans; identification of resource use conflicts and proposal of solutions	Ability to autonomously manage local and regional policies on natural resource use. Responsibility for integrating sustainability criteria in development plans. Decision-making capacity in multisectoral contexts (urban planning, agriculture)	Water Resources and Regional Development Geomorphological Vulnerabilities and Risks in Regional Development Planning and Sustainable Use of Natural Resources Waste, Resources, and Energy Management Biodiversity Conservation, Strategies and Legislation



Knowledge	Skills	Responsibility and Autonomy	Courses Contributing to Learning Outcomes
Socio-economic policies, regional and urban planning	Critical and creative thinking in formulating solutions tailored to regional/local contexts; identification of local resources and use of human capital	Ability to connect demographic needs, urban innovation, and rural development in a coherent smart regional planning vision	Demographic Changes and Sustainable Development Rural Space – Revitalization and Sustainability The Economic Geography of Rural Areas
Knowledge of territorial governance, the role of regional actors, partnerships	Coordination of intersectoral collaborations	Leadership in interdisciplinary teams; ability to manage conflicts and build consensus	Practical Training
Interdisciplinary knowledge of urban development, infrastructure, and local economy	Applied skills in analysis, planning, and integration of digital and sustainable solutions	Can act independently and take responsibility in complex projects with direct impact on communities and territories	Smart Cities and Communities Sustainable Transport and Mobility Tourism and Regional Development Cultural Heritage and Sustainable Development
Research methods, professional ethics, communication	Critical thinking, writing, public presentation, collaboration	Ethical, responsible decision-making and constant self-assessment of one's own and the team's activities	Ethics and Academic Integrity Research Laboratory

Grades are integer numbers given on a scale from 10 (the highest grade) to 1 (the lowest grade); the lowest passing grade is 5. The passing overall average grades are: lowest average 5 (out of 10) and highest average 10 (out of 10).

**Occupations covered by the study program, according to COR or ISCO-08:**

- 263202 geographer;
- 263205 urban planning analyst;
- 263213 Geography research assistant;
- 263220 local promoter;
- 242229 counsellor for local and regional development;
- 242232 expert sustainable development

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