

MARDS

**REFORMING DOCTORAL STUDIES IN MONTENEGRO AND
ALBANIA – GOOD PRACTICE PARADIGM**

Grant: 598465-EPP-1-2018-1-ME-EPPKA2-CBHE-SP

Erasmus+ CBHE Field Monitoring Visit

University of Montenegro, 23.03.2023



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Summary on achievements

Prof. dr Radovan Stojanović



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Field Monitoring Visit



Project overview

- **15 Partners**
 - **EU (5)** : University of Vienna, University of Zagreb, University of Maribor, University of Banska Bistrica, Association of professionals in doctoral education.
 - **ME (5)**: University of Montenegro, University of Donja Gorica, Ministry of education of Montenegro, Ministry of Science of Montenegro, Montenegrin Chamber of Commerce,
 - **AL(6)**: University of Schroder “Luigj Gurakuqi”, Technical University of Tirana, Vlore University, University Metropoliten Tirana, Ministry of sport and education of Albania.
- **Coordinator: University of Montenegro**
- **EU garnt (all partners): 868.120 EUR, UCG 201.740 EUR (23.2%),** Staff: 61,460.00, Travel: 17,770.00, Stay: 34,560.00, Equ: 57,950.00, Sub: 34,000.00
- **Duration: 4 years, NOV 15 2018- NOV 14 2022**

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General objectives

1. To reconstruct Albanian and Montenegrin systems of doctoral education in line with Salzburg Principles
2. to establish sustainable and modern Pilot Joint Doctoral Schools between two friendly neighbours partner countries that will serve as an example of “good practice” for the WB Region.

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Specific objectives

1. **to reconsider** the existing national policies/standards for doctoral studies in two countries and their compatibility with EU practices.
2. **to develop and propose** a new model of doctoral studies in two countries, adapted to the acquired experiences over past decades and current and future countries' needs.
3. **to propose a sustainable method** of financing doctoral studies in two countries on national levels.
4. **to establish two Joint Doctoral Schools**
 - "Natural sciences and Technology for Sustainable Development" with place in Montenegro (Podgorica)
 - "Economy and Tourism for Sustainable Development" with place in Albania (Shkoder) as the recommendable examples of cross-border PhD programmes.
5. **to establish a sustainable cooperation** with EU partners and established Doctoral School in order to maintain developed standards.

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Specific outcomes

1. Report on existed doctoral education in Montenegro and Albania with Action plans. ✓
2. Proposal of basic legal documents including the model of funding doctoral studies in Montenegro and Albania. ⌚
3. Conference on PhD education in Montenegro and Albania. ✓
4. Guidelines and recommendations for WB academics and professionals in Doc. studies. ✓
5. Training staff and support. ✓
6. Providing infrastructural and human resources ✓
7. Accredited Joint Pilot Doctoral School: "Natural sciences and Technology for Sustainable Development" with place in Montenegro, Podgorica, ✓

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Specific outcomes

8. Accredited Joint Pilot Doctoral School: “Economy and Tourism for Sustainable Development” with place in Albania , Shkoder. 
9. The First Scholarships for doctoral studies in two countries based on recommended funding model (if allowed by policy makers) 
10. MARDS Doctoral Colloquium of first PhD generation enrolled under title “Science, Technology and Services for Sustainable development”, 
11. Provided model of cooperation academia – nonacademia in term of MARDS 
12. Providing sustainability of the achieved results 

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What we are proud of?

- **We change the system of PhD studies in Montenegro** (modern approach, lower fees, intensive work, motivated candidates and teachers, mobility, research, publications, the tuition fee for doctoral studies has been reduced to symbolic 0€-€250- €750 per semester.). In addition, the MARDS project contributed to the improvement of other policies and measures in doctoral education in Montenegro, e.g. at the University of Montenegro.
- We developed, accredited, licensed and start up the first international multidisciplinary PhD programme “Sustainable Development” in Montenegro, <https://www.mards.ucg.ac.me/PhD/>
- We developed, accredited and start up the First International multidisciplinary PhD programme “Economy and Tourism in Sustainable Development” in Albania,
- **We enrolled 2 generations of the students in Montenegro and one in Albania.** The first generation students made great progress The MARDS program attracted most of the students enrolled in Ph.D. studies (16 studies programs) at the University of Montenegro in the 2021/2022 academic year. As many as 15 students out of a total of 93 are enrolled in this program (16%). At the end of the academic year, all enrolled students mastered the defined curriculum with more than 75 % of success. All of them defended their colloquium works within Doctoral Symposium . The students were very proactive in mobility, their research stays at a partner institution, and 83% spent that stay, mainly at the University of Maribor.

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What we are proud of?

- The MARDS is a “de facto and de jure” international program. It originated from an international project, conducted in English by international institutions and professors, including international students. Circa 36 % of the enrolled students of the first generation completed their previous level of education at one of the foreign universities. This percent in 2nd generation goes to 90%. Some of them returned to Montenegro to continue their studies and professional development. About 50% of professors and supervisors were from foreign universities. About 40% of all authors, at Symposium, were out of Montenegro. The Program offers opportunities for the scientific diaspora of Montenegro and the wider Western Balkan.
- We have established traditional Colloquium for Doctoral Students, the first in history of WB DS, www.doc-me.com .
- We have become an good example in the Region on modern DS.

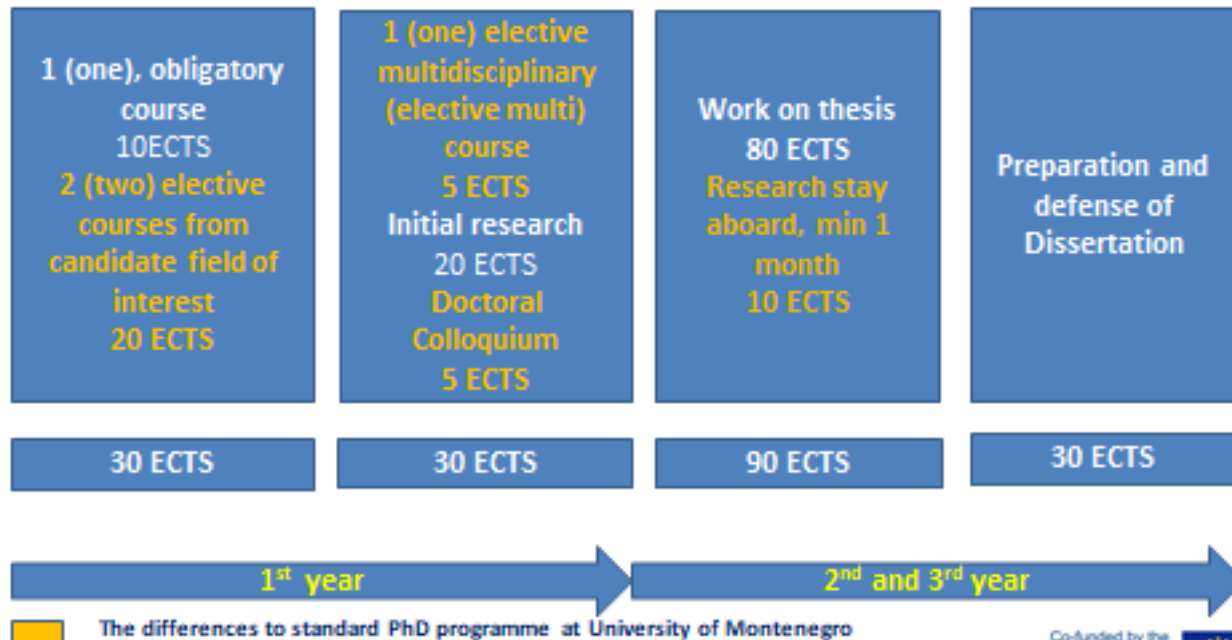
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PhD in Sustainable Development



“Sustainable development” PhD Structure



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PhD in Sustainable Development

- Eligibility

- MSc students obtained 300 ECTS in one of the following profiles:

1. All technical sciences
2. Biotechnical/technology sciences
3. Natural sciences and mathematics
4. Multidisciplinary sciences compatible with programme
5. Biomedical engineering
6. Medicine and related sciences

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PhD in Sustainable Development

Spisak predmeta - doktorske studije "Održivi razvoj" (MARDS, UCG)

The list of the courses - PhD studies "Sustainable Development" (MARDS, UCG=University of Montenegro)

#	Predmet (MNE)	Course(ENG)	Predavač/Teacher	ECTS	Status	Nosilac Institution
1	Metodologija naučno-istraživačkog rada	Methodology of science and research work	Prof. dr Veljko Milutinović	10	obavezni obligatory	Indiana University Bloomington
2	Daljinsko istraživanje	Remote sensing	Prof. dr Dušan Gleich	10	izborni elective	Univ. Maribor
3	Upravljanje i zaštita elektroenergetskih sistema	Power system control and protection	Prof. dr Boštjan Polajžer	10	izborni elective	Univ. Maribor
4	Komunikacija čovjek-računar u medijima	Human-computer interaction in the media	Prof. dr Matjaž Debevc	10	izborni elective	Univ. Maribor
5	Inteleigentna obrada podataka	Intelligent data analysis	Prof. dr Iztok Fister	10	izborni elective	Univ. Maribor
6	Distributivni sistemi za smještanje podataka	Distributed data storage systems	Prof. dr Aida Kamišalić Latifić	10	izborni elective	Univ. Maribor
7	Pretraživanje nestrukturisanih podataka	Mining unstructured data and natural language processing	Prof. dr Sašo Karakatič	10	izborni elective	Univ. Maribor

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8	Savremeni građevinski materijali	Contemporary building materials	Prof. dr Radomir Zejak	10	izborni elective	GF UCG
9	Eksperimentalna analiza konstrukcija	Experimental analysis of structures	Prof. dr Biljana Šćepanović	10	izborni elective	GF UCG
10	Upravljanje rizikom u građevinarstvu	Risk management in civil engineering	Prof. dr Miloš Knežević	10	izborni elective	GF UCG
11	Energetska efikasnost zgrada	Energy efficiency of buildings	Prof. dr Radmila Sinđić Grebović	10	izborni elective	GF UCG
12	Izabrana poglavlja iz električnih mašina	Selected topics in electrical machines	Prof. dr Gojko Joksimović	10	izborni elective	ETF UCG
13	IoT ekosistemi	IoT ecosystems	Prof. dr Radovan Stojanović	10	izborni elective	ETF UCG
14	Eksergetske analize u HVAC instalacijama	Power analyses in HVAC systems	Prof. dr Igor Vušanović	10	izborni elective	MF UCG
15	Kompleksi metala i njihova primjena	Metal complexes and their application	Prof. dr Željko Jaćimović, Prof. dr Nedeljko Latinović	10	izborni elective	MTF UCG i BTF UCG

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Staff Week Meeting, November, 2022



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16	Hemija životne sredine	Environmental chemistry	Prof. dr Željko Jaćimović, Doc. dr Miljan Bigović	10	izborni elective	PMF UCG
17	Ekologija i životna sredina	Ecology and environment	Prof. dr Marijana Krivokapić	10	izborni elective	PMF UCG
18	Ekologija i biodiverzitet akvatičnih sredina	Ecology and biodiversity of aquatic ecosystems	Prof. dr Marijana Krivokapić	10	izborni elective	PMF UCG
19	Biološki procesi u životnoj sredini - odabrana poglavlja	Biological processes in the environment - selected chapters	Prof. dr Jelena Rakočević	10	izborni elective	PMF UCG
20	Precizna poljoprivreda	Precision agriculture	Prof. dr Radovan Stojanović, Prof. dr Nedeljko Latinović	10	izborni elective	ETF UCG i BTF UCG
21	Brodaska alternativna goriva i pogoni	Ships' alternative fuels and propulsion	Prof. dr Danilo Nikolić	10	izborni elective	PF UCG
22	Održavanje zasnovano na pouzdanosti	Reliability-based maintenance	Prof. dr Špiro Ivošević	10	izborni elective	PF UCG
23	Modeliranje u Supply Chain Management- u	Modeling the supply chain	Prof. dr Branislav Dragović	10	izborni elective	PF UCG

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Staff Week Meeting, November, 2022



PhD in Sustainable Development

24	Kontinuiteti u građenju grada	Continuities in the city building	Doc. dr Vladimir Bojković	10	izborni elective	AF UCG
25	Energetska i ekološka rehabilitacija zgrada	Energy and environmental refurbishment of buildings	Prof. dr Dušan Vuksanović	10	izborni elective	AF UCG
26	Dizajn i priroda	Design and nature	Prof. dr Slavica Stamatović Vučković	10	izborni elective	AF UCG
27	Naučna komunikacija i pisanje	Science communication and writing	Doc. dr Nela Milošević	5	izborni elective	Univeristy Donja Gorica
28	Napredno preduzetništvo	Advanced entrepreneurship	Prof. dr Dijana Kovačević	5	izborni elective	University Donja Gorica
29	Tehnološko preduzetništvo	Technological entrepreneurship	Prof. dr Radovan Stojanović	5	izborni elective	ETF UCG

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Programme Coordinator

Prof. dr Radovan Stojanović, University of Montenegro





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Research Coordinator

Prof. dr Veljko Milutinović, Indiana University
Bloomington





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Students of the first generation of international doctoral studies
"Sustainable Development" at the University of Montenegro



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Ana Radović

Master of Science – Chemical technology
Manager of Department of accreditation laboratories and
inspection bodies, Lead assessor for laboratories and inspection
bodies Accreditation body of Montenegro



Anita Martić

Master of Science - Sustainable Agriculture
Plant protection technologist at 13 Jul-
Plantaze



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David Kočović

Master of Science – Food Technology and Processing
Head of Laboratory at “Institute for medicines and medical
devices of Montenegro”



Branka Knežević

Master of Science - Biology
Deputy Secretary in Secretariat for Spatial Planning and Sustainable
Development of Capital City Podgorica



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Ivana Mitrović
Master of Science –Ecology
Advisor at Environmental Protection Agency Montenegro



Maša Jovanović
Doctor of Veterinary Medicine
Dr vet. Med RoyalVet



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Neda Bošković

Master of Science- Environmental Protection
PhD student - Environmental Protection
Professional person for performing safety at work



Mladen Femić

Master of Science - Geodesy and GIS
Land use and surveying lead engineer in Project manager unit
for the Bar-Boljare highway Project
Monteput doo



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Sanja Pavićević
Master of Science - Physics
Consultant/Freelancer



Osman Šurla
Master of Science – Biology
High-school teacher of biology, life sciences and health education



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Stefanela Žarković

Master of Science - Architectural technology and construction
Architect at Zetagradska



Snežana Lješnjak

Master of Science – Ecology
Teacher of Biology at Primary School "Marko Miljanov"



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Vesna Pavlović

Master of Science – Biology

Implementation Manager at Ministry of Finance and Social Welfare



Tanja Radovanović

Master of Science / Master of Architecture

UX/UI Designer



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Students of the **2nd generation** of international doctoral studies
"Sustainable Development" at the University of Montenegro

Students of the 2nd generation of international doctoral studies "Sustainable Development" at the University of Montenegro



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[Selma Sellaku](#)
[Anja Babić](#)



Dragana Nikčević
Pantović



[Azra Vuković](#)



[Branislav Proročić](#)

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Maja Božović



Željko Kalezić



Dejan Zejak



Nikola Bajović



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society



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management



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Conclusion

- it was not an easy job.
- we succeeded.
- we will maintain and improve achievements.
- where we failed, we will always do it again.
- because the green reforms and new ideas never end.
- For more info:
- <https://www.mards.ucg.ac.me/workflow.html>
- <https://www.mards.ucg.ac.me/PhD/>



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