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Importance of knowledge sharing through the theme-based training activities

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University of Nis



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Strengthening of master curricula in water resources
management for the Western Balkans HEIs and stakeholders

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6 TRAININGS

Strengthening of master curricula in water resources management
for the Western Balkans HEIs and stakeholders

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Theme-based training

- **University of Architecture, Civil Engineering and Geodesy (UACEG): 29 - 31 May 2019**
- **Norwegian University of Life Sciences (NMBU): 17-20 June 2019**
- **Faculty of Civil Engineering as part of the University of Rijeka (UNIRIFCE): 18-20 September 2019**
- **Aristotle University of Thessaloniki (AUTH): 30 October-01 November 2019**
- **Universidade de Lisboa (UL): 27-29 November 2019**
- **University of Natural Resources and Life Sciences, Vienna (BOKU): 04-06 February 2020**

Trainings objectives

Education of WB teachers in innovative teaching methods

Improvement of teachers' professional, pedagogical and methodological knowledge.

WHAT DID WE LEARN

Strengthening of master curricula in water resources management
for the Western Balkans HEIs and stakeholders

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University of Architecture, Civil Engineering and Geodesy (UACEG)

- Twenty representatives from 8 partner institutions were present at the training (14 out of 20 were from WB partner HEIs).

The lessons (topics) presented:

- Implementation of EU policies in Water Resources Management;
- Circular economy policies for sustainable development in UWM;
- Interactive educational tool: WAT-A-GAME;
- Implementation of EU Floods directive;
- Application of water balances for supporting RBM planning;
- Teaching and Learning Methods in UACEG.

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University of Architecture, Civil
Engineering and Geodesy (UACEG)

The study visit of
Wastewater Treatment
Plant “Kubratovo” –
operated by “Sofiyska voda”
AD



Norwegian University of Life Sciences (NMBU)

- Seventeen representatives from 8 partner institutions were present at the training (14 out of 17 were from WB partner HEIs).

The lessons (topics) presented:

- Water – scarce resource: need for sound management;
- Climate Change impacts: consequences of increased precipitation;
- Use of digital tools in water education: Water-smart circular economy;
- Problem-based learning: Introduction to project work;
- Practice-based teaching approaches;
- Internationalization of universities and harmonization of water-related HE;
- Digital tools in education: Conducting digital exams;



Norwegian University of Life Sciences (NMBU)

Educational tour to the underground wastewater treatment plant

Faculty of Civil Engineering as part of the University of Rijeka (UNIRIFCE)

- Twenty-three representatives from 8 partner institutions were present at the training (15 out of 23 were from WB partner HEIs).

The lessons (topics) presented:

- UNIRIFCE studies related to WRM;
- Quality Assurance and Monitoring – University and Faculty level;
- Presentation of the course “Water resources management” (master study) and models of master thesis;
- E-learning in WRM;
- Issues on WRM in Croatia in climate change context;
- Innovative and scientific approaches in WRM;
- Assessment of Proper Wastewater Treatment Level according to the Marine Ecosystem State.



Aristotle University of Thessaloniki (AUTH)

- Nineteen representatives from 8 partner institutions were present at the training (15 out of 19 were from WB partner HEIs).

The lessons (topics) presented:

- Studies and activities related to WRM;
- Postgraduate Course on Research Methodology for Engineers and Scientists;
- Hydro-Governance in Greece – Past, Present and Future;
- Transboundary water cooperation;
- Innovations in the Water Supply Sector;
- Ecological restoration of Greek lakes: success stories?;
- Development of strategic flood management plans of urban and rural areas in Greece;
- Postgraduate Studies Program on Environmental Protection and Sustainable Development;
- Postgraduate Studies Program on Integrated Management of Watersheds and Coastal zone.



Aristotle University
of Thessaloniki
(AUTH)

Visit to the Water
treatment plant
(close to
Thessaloniki)

University of Lisbon, Portugal (UL)

- Nineteen representatives from 8 partner institutions were present at the training (16 out of 19 were from WB partner HEIs).

The lessons (topics) presented:

- Principles of water governance;
- Mooc - Massive Open Online Courses: how to develop a Mooc for engineering courses;
- Drainage master plan of Lisbon city;
- Agreements for the protection and sustainable use of waters of International river basins. The case of the Portuguese-Spanish Convention.

University of Lisbon, Portugal (UL)

Visits to the Lisbon
sewage treatment
plant, at Alcântara and
to the XVIII century
water distribution
system to Lisbon



University of Natural Resources and Life Sciences, Vienna (BOKU)

- Twenty-one representatives from 8 partner institutions were present at the training (18 out of 21 were from WB partner HEIs).

The lessons (topics) presented:

- Innovative teaching practices;
- Online learning methods;
- Introduction to the e-learning system BOKUlearn;
- eLearning exercises and tests.



University of Natural Resources and Life Sciences, Vienna (BOKU)

Visits to the Waste Water Treatment Plant of Vienna and to the hydro power plant Freudenau





TRAINING OUTCOMES

Strengthening of master curricula in water resources management for the Western Balkans HEIs and stakeholders

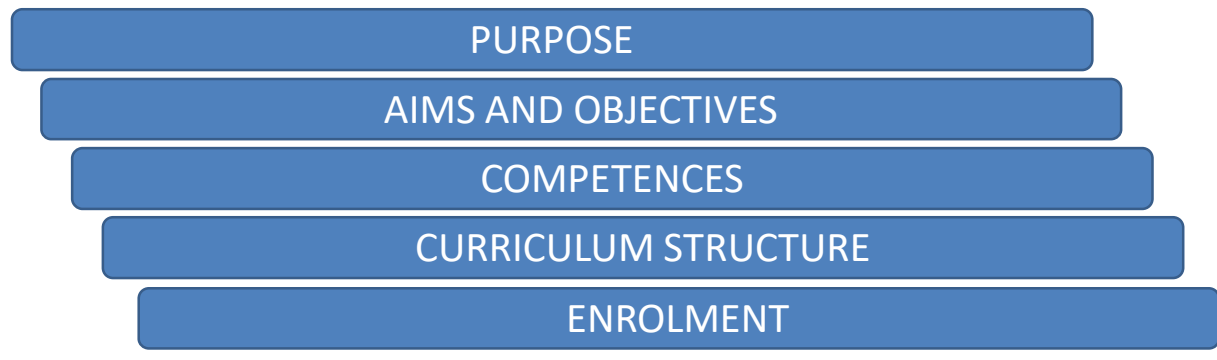
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WB HEI	Undergraduate		Master	
	New courses	Upgrade/improve of existing courses	New courses	Upgrade/improve of existing courses
University of Pristina in Kosovska Mitrovica/ Faculty of Technical Sciences		2	4	
Technical College of Applied Sciences Urosevac-Leposavic			3	
University of Montenegro/ Faculty of Civil Engineering				4
University of Novi Sad/ Faculty of Technical Sciences			5	1
Dzermal Bijedic University of Mostar/ Faculty of Civil Engineering			1	2
University of Nis/ Faculty of Civil Engineering and Architecture	3		1	2
University of Sarajevo/ Faculty of Civil Engineering				4
TOTAL	3	2	14	13



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Innovation of existing and development of new master curricula for WRM in WB



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THE LAST BUT NOT THE LEAST

PROFESSIONAL DEVELOPMENT

VISTING NEW AND „OLD“ COUNTRIES AND TOWNS

MEET NEW POTENTIAL PARTNERS

NEW COLABORATIONS AND JOINT ACTIVITIES

NEW FRIENDSHIPS