



**SETOF**

**Soil Erosion and TOrrential Flood**  
*Prevention: Curriculum Development at the*  
*Universities of Western Balkan Countries*

# Short report of the Project Coordinator

**Prof. Nada Dragović**

Reference Number: 598403-EPP-1-2018-1-RS-EPPKA2-CBHE-JP

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# Soil Erosion and TOrrential Flood Prevention: Curriculum Development at the Universities of Western Balkan Countries

## NAUČNA OBLAST

Tehničko—tehnološke nauke

## TRAJANJE STUDIJSKOG PROGRAMA

Jedna školska godina (dva semestra)

## AKADEMSKI NAZIV

Master inženjer šumarstva—erozija zemljišta i prevencija od bujičnih poplava

## BROJ BODOVA

60 ESPB

## ZNANJA I VEŠTINE KOJE SE STIČU

- Integrirana znanja i veštine za profesionalno obavljanje poslova iz oblasti zaštite zemljišta od erozije i prevencije od bujičnih poplava na principima integralnog upravljanja šljivim područjima;
- Znanja potrebna za rešavanje problema degradacije zemljišta i voda i njihovog korišćenja na principima održivog razvoja;
- Osposobljenost za praktičnu primenu stečenog znanja za zaštitu zemljišta od degradacije i odbranu od bujičnih poplava kroz izradu projekata i izvođenje radova, kao i primenu metoda baziranih na informacionim tehnologijama.

## MOGUĆNOST ZAPOŠLJAVANJA

- Kompanije, preduzeća i ustanove u oblasti vodoprivrede, šumarstva, poljoprivrede i zaštite prirode,
- Republičke, pokrajinske i lokalne institucije (ministarstva, opštine, RHMZ, agencije),
- Organizacione jedinice u okviru gradskih i opštinskih uprava, nadležne za mere zaštite i spasavanja u slučaju prirodnih katastrofa,
- Obrazovne i istraživačke organizacije (instituti, fakulteti),
- Ostale institucije i privredni subjekti koji se bave projektovanjem i izvođenjem radova za zaštitu zemljišta i voda.

## SETOF PROJEKAT

Zajednički studijski program master akademskih studija „Erozija zemljišta i prevencija od bujičnih poplava“ razvijen je u okviru ERASMUS+ I2 projekta „Erozija zemljišta i prevencija od bujičnih poplava: razvoj kurikuluma na univerzitetima država Zapadnog Balkana (SETOF)“. Prva godina realizacije zajedničkog studijskog programa finansira se sredstvima SETOF projekta i studenti u toj godini ne plaćaju školarinu.

## CILJ PROJEKTA

Unapređenje obrazovanja inženjera za zaštitu zemljišta od erozije i prevenciju od bujičnih poplava kroz razvoj novih i unapređenje postojećih studijskih programa u visokoskolskim ustanovama u Srbiji i Bosni i Hercegovini.

## TRAJANJE PROJEKTA

Novembar 2018—Novembar 2022

## KOORDINATOR

- Šumarski fakultet Univerziteta u Beogradu

## UČESNICI

- Poljoprivredni fakultet Univerziteta u Novom Sadu
- Fakultet zaštite na radu Univerziteta u Nišu
- Šumarski fakultet Univerziteta u Banjoj Luci
- Šumarski fakultet Univerziteta u Sarajevu
- Institut za šumarstvo, Beograd
- BOKU—University of Natural Resources and Life Sciences, Beč
- Ss. Cyril and Methodius University, Skopje
- University Mediterranea of Reggio Calabria
- Forest Research Institute at the Bulgarian Academy of Sciences



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**MASTER AKADEMSKE STUDIJE  
EROZIJA ZEMLJIŠTA I  
PREVENCIJA OD BUJIČNIH  
POPLAVA**  
Zajednički studijski program

**NOSIOCI PROGRAMA**

- UNIV ERZTET U BEOGRADU Šumarski fakultet
- UNIV ERZTET U NOVOM SADU Poljoprivredni fakultet
- UNIV ERZTET U NIŠU Fakultet zaštite na radu

**PARTNERSE ORGANIZACIJE**

- UNIV ERZTET U BANJOJ LUCI Šumarski fakultet
- UNIV ERZTET U SARAJEVU Šumarski fakultet

- After the PMU, SC, and QAC meetings in mid-June 2021 we received the Certificate of Accreditation of the new master program (June 13, 2021) and we started the process of promoting master program for student enrollment. In mid-July 2021, a competition was announced to enroll students with all the necessary information. The competition was published on the website of all universities/faculties of participants in the realization of master's programs.





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## 5.5. Promotion trainings with engineers in enterprises 5.6 Trainings in local communities

Training with engineers took place on 14 June 2021 at the Faculty of Occupational Safety in Niš.



Training for local communities Niš and Leskovac was held on 15 June 2021 also at the Faculty of Occupational Safety in Niš.



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External financial control reporting planned for the middle of the project was completed on 15.06.2021. The report is positive and the Auditors were satisfied with the efficiency of cooperation with project administrators and well-prepared documentation.

**UNIVERSITY OF BELGRADE**  
**Independent Report of Factual Findings – Type II**  
**on costs claimed under a Grant Agreement financed**  
**under the Erasmus+ Programme**

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## 5.5. Promotion trainings with engineers in enterprises 5.6 Trainings in local communities

Training with forestry engineers was held at the Faculty of Forestry, University of Sarajevo 16.09.2021.



Training with employees in local communities Zenica was held on September 17th, 2021



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## Students enrollment

- According to the announced competition, 23 students have applied to the joint master's programme, among them:
  - 6 graduated bachelor students from the faculties of the University of B&H ( 4 from the University of Banja Luka and 2 from the Faculty of the University of Sarajevo)
  - 17 students from the University of Serbia (8 graduated bachelor students from the faculties of the University of Belgrade; 4 graduated bachelor students from the faculties of the University of Niš and 5 graduated bachelor students from the Faculty of the University of Novi Sad).
- Candidate registration in the first enrollment period was from 14.09.2021 until 05.10.2021. The preliminary list was published on 07.10.2021 and 16 students were on the list of enrolled students. In the second enrollment period (student registration was on 19 and 20.10.2021.) 7 students were registered and enrolled.



## 5.5. Promotion trainings with engineers in enterprises

Training with engineers in enterprise VD  
„Dunav“ ad Bačka Palanka was held on  
October 29<sup>th</sup>, 2021



Training with engineers in enterprise VPD  
„Srednji Banat“ Zrenjanin was held on  
December 9<sup>th</sup>, 2021







## 5.6 Trainings in local communities

Promotion training with employees in local community Beočin was held on October 28, 2021



Training with employees in local community Bačka Palanka was held on October 29, 2021





## 3.2. New master programme implemented

The implementation of the master program started by enrolling students in the school academic year 2021/2022. SETOF project plans to hold a block classes at the teaching base of the University of Belgrade- Faculty of Forestry in Goč. The block of classes was held from 01.11.2021 until 05.11.2021 according to the schedule of teaching, adopted by the Academic Board of the Study Program and published on the website of the Faculty of Forestry, University of Belgrade.



## Activity 2.7. Introduce and training teaching staff

Training held on November 10<sup>th</sup> at the University of Niš and November 12<sup>th</sup> at the University of Novi Sad. The Training covered several topics in framework of Soil Erosion and Torrential Flood Prevention at the Mediterranean University of Reggio Calabria (WP2 Development of curricula, Activity 2.7. Introduce and training teaching staff). Prof. Paolo Porto gave some inside into soil erosion and torrential floods problem and prevention in Reggio Calabria, Italy. The member of the SETOF project and training participants discussed the previous works on erosion and torrential flood prevention, good and bad examples of the constructed objects.



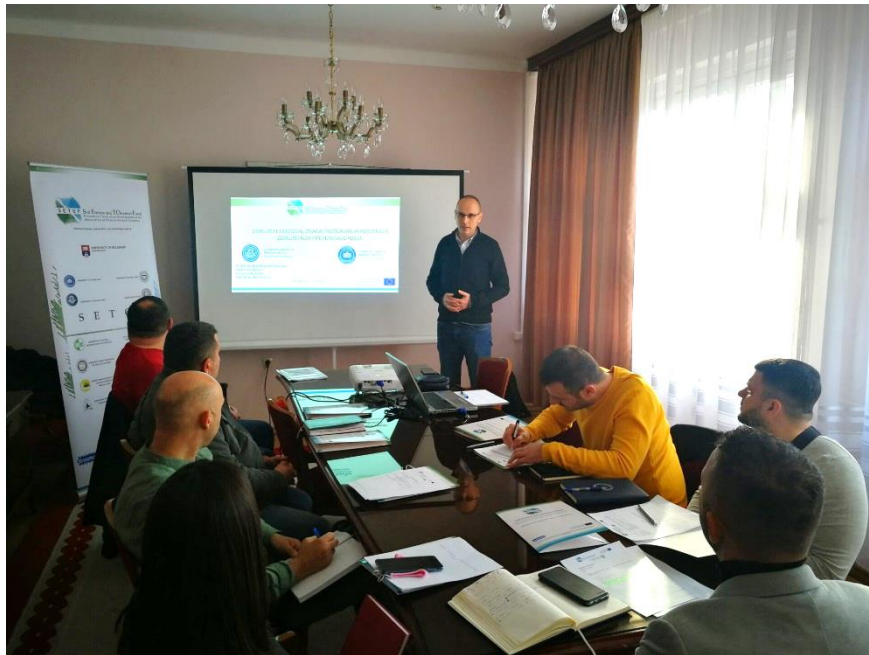




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## 5.6 Trainings in local communities

The promotion trainings with representatives of local communities of the Bosnia and Herzegovina within a SETOF project was held in Prijedor, B&H on December 7th, 2021.



The promotion trainings with representatives of local communities of the Bosnia and Herzegovina within a SETOF project was held in Teslić, B&H on December 30th, 2021.







## Prevention and Management of Soil Erosion and Torrential Floods

Slobodan Milutinović  
*University of Niš, Serbia*

Snežana Živković  
*Faculty of Occupational Safety, University of Niš, Serbia*

A volume in the Advances in Environmental  
Engineering and Green Technologies (AEEGT)  
Book Series



The monography Prevention and management of soil erosion and torrential floods was published in December 2021. Editors of this publication were Prof. Slobodan Milutinović and Prof. Snežana Živković.





## 3.2. New master programme implemented

The second block of teaching on the joint study programme Soil erosion and torrential flood prevention was successfully held at the Goč - teaching base of the Faculty of Forestry University of Belgrad, in the period 31.01.2022 - 04.02.2022.





## Training with employees in local community Mionica was held on February 25<sup>th</sup>, 2022.







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# The planned and realized activities

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# WORKPLAN for project year 2/3

Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
1.1	Analysis state of soil degradation/soil erosion in WBC	0												
1.2	Analysis of torrential floods in WBC	0												
1.3	Report of prevention measures for soil and torrent in EU	0												
1.4	Analysis and elaboration of bachelor and master curricula	0												
1.5	Workshop on bach. and master curricula in EU	0												
2.1	Defined study requirements with Bologna standards	0												
2.2	Defined goals, competences and learning outcomes	0												
2.3	Established new and improved existing subjects	6	2X	2X	2X									
2.4	Established new master programme	18	3X	3X	3X	3X	3X	3X						
2.5	Study visits EU partners and analysis best practices	4					2=	2=						
2.6	Harmonization of the proposed changes	6	X	X	X	X	X	X						
2.7	Introduce and training teaching staff	3							X=	X=	X=			
3.1	New bachelor subjects implemented	0												
3.2	New master programme implemented	0												
3.3	Evaluation of syllabi	0												
3.4	Report of bachelor and master curricula quality	4					2X=							2X=
4.1	Quality plan established	0												
4.2	Quality control according to the adopted plan	4								X=	X=	X=	X=	
4.3	External financial control	2										X=	X=	
4.4	Quality assurance Committee meetings	4						2X=						2X=
5.1	Project website created and maintenance	12	X	X	X	X	X	X	X	X	X	X	X	X
5.2	Establish dissemination plan	0												
5.3	Promotion material created	6							X	X	X	X	X	X
5.4	Trainings plan defined and adopted	6							X=	X=	X	X	X	X
5.5	Promotion trainings with engineers in enterprises	3									X	X	X	
5.6	Trainings in local communities	2										X	X	
6.1	Sustainability plan created	0												
6.2	Accreditation of master curricula	24							4X	4X	4X	4X	4X	4X
6.3	Promotion for students enrollment	4							X	X	X			
7.1	Project management meetings	2						X=						X=
7.2	Steering committee meetings	2						X=						X=
7.3	Guidelines on the reporting and correspondence	0												
7.4	Day-to-day coordination of project activities	22	2X=	2X=	2X=	2X=	2X=	2X=	2X=	2X=	X=	X=	2X=	2X=
7.5	Interim and finale report meeting	10						3X=	3X=	2X=	2X=			





# WORKPLAN for project year 3/4

Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
1.1	Analysis state of soil degradation/soil erosion in WBC	0												
1.2	Analysis of torrential floods in WBC	0												
1.3	Report of prevention measures for soil and torrent in EU	0												
1.4	Analysis and elaboration of bachelor and master curricula	0												
1.5	Workshop on bachelor and master curricula in EU	0												
2.1	Defined study requirements with Bologna standards	0												
2.2	Defined goals, competences and learning outcomes	0												
2.3	Established new and improved existing subjects on bachelor	0												
2.4	Established new master programme	0												
2.5	Study visits EU university and analysis best practices	4	2=	2=										
2.6	Harmonization of the proposed changes	0												
2.7	Introduce and training teaching staff	2					=	=						
3.1	New bachelor subjects implemented	30	X	X	X		X	X	X	X	X	X		X
3.2	New master programme implemented	30	X	X	X		X	X	X	X	X	X		X
3.3	Evaluation of syllabi	6				2X							2X	2X
3.4	Report of bachelor and master curricula quality	4					2X							2X
4.1	Quality plan established	0												
4.2	Quality control according to the adopted plan	4	X=	X=				X=	X=					
4.3	External financial control	4						X=	X=				X=	X=
4.4	Quality assurance Committee meetings	4						2X=						2X=
5.1	Project website created and maintenance	6	X	X	X	X	X	X	X	X	X	X	X	X
5.2	Establish dissemination plan	0												
5.3	Promotion material created	2	X	X										
5.4	Trainings plan defined and adopted	2								X	X			
5.5	Promotion trainings with engineers in enterprises	5					X	X	X	X	X			
5.6	Trainings in local communities	4	X	X	X	X								
6.1	Sustainability plan created	0												
6.2	Accreditation of master curricula	0												
6.3	Promotion for students enrolment	6							X	X	X	X	X	X
7.1	Project management meetings	3						X=						2X=
7.2	Steering committee meetings	2						X=						X=
7.3	Guidelines on the reporting and correspondence	0												
7.4	Day-to-day coordination of project activities	18	X=	X=	X=	X=	2X=	2X=	2X=	2X=	X=	X=	2X=	2X=
7.5	Interim and finale report meeting	9										3X=	3X=	3X=







## WP 2 – DEVELOPMENT

### Development of curricula

		Time	Done
2.5	Study visits to EU partners and analysis best practices		
	Report of the study visit	15.09.2020 – 15.03.2021	not done
2.7	Introduce and training teaching staff		
	Report of the training teaching staff	09.11.2021-13.11.2021	done





## WP 3 – DEVELOPMENT

### Implementation of developed curricula and training

	Time	Done
3.2. New master programme implemented		
Teaching material, event	01.11.2021	done
3.4 Report of bachelor and master curricula quality		
Report of curricula quality	15.02.2022	done





## WP4 QUALITY PLAN

### Quality plan and monitoring

		Time	Done
4.2	Quality control according to the adopted plan		
	Report of Quality control according to the adopted plan	10.03.2022	done
4.4	Quality assurance Committee meeting		
	Minutes of the Quality assurance Committee meeting- UNIRC in consultation with other participating institutions UB, UNSCM, FRI-BAS	11.03.2022	done







## WP5 - DISSEMINATION & EXPLOITATION

### Dissemination of project results

		Time	Done
5.1	Project website created and maintenance		
	Project website created - UB in consultation with UNI	In progress	done
5.5	Promotion trainings with engineers in enterprises		
	Training material	10.12.2021	in progress
5.6	Trainings in local communities		
	Training material	10.12.2021	in progress





## WP6 - DISSEMINATION & EXPLOITATION

### Exploitation of project results

		Time	Done
6.3	Promotion for students enrollment		
	Report of promotion for students enrollment	10.12.2021	done





## WP7 – MANAGEMENT

### Project management

	Time	Done
7.1 Project management meeting		
Minutes of the meeting - UB in consultation with other partner institutions	15.12.2021 10.03.2022	not done done
7.2 Steering committee meeting		
Minutes of the meeting - UB in consultation with other partner institutions	15.12.2021 11.03.2022	not done done
7.4 Day-to-day coordination of project activities		
Report of day-to-day coordination - UB in consultation with other partner institutions	15.12.2021	done







# Events

## **2.5 Study visits to EU partners university and analysis best practices**

From project Application form “.. study stays with teachers and students from Serbian and Bosnian-Herzegovinian universities at EU countries’ and Macedonia’s universities... The goal ... is obtaining a perception of the teaching process at the universities (methodologies, pieces of equipment etc.) and the adoption of good practices in those countries.”

Proposal (preliminary):

- Study visit at the Forest Research Institute (FRI-BAS) in Bulgaria– beginning of October, 2021

**Due to Corona virus pandemic in the participating countries, the planned event was not conducted.**

