



**SETOF**

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

# WP2

# DEVELOPMENT OF CURRICULA

Dr Atila Bezdan

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

*"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"*

Co-funded by the  
Erasmus+ Programme  
of the European Union





# WP2: Development of curricula

- Since problems of erosion and torrential floods is very pronounced in the Western Balkans the countries of the region should have a unique approach to its solution
- In order for graduates to have the knowledge necessary for soil and landscape protection and regulation of torrential catchments that is as good as the knowledge of engineers in EU countries, it is necessary to improve and modernize the existing study programs
- The main aim of the project is the development and improvement of curricula for the education of professionals in the Western Balkans (Serbia and Bosnia and Herzegovina) who will solve problems of soil erosion control and protection against torrential floods in compliance with EU directives





# WP2: Development of curricula

- The stated goals of the project will be achieved through the development of new master curriculum and improvement of existing bachelor curriculum by modernization the existing and introducing new subjects in the field of prevention of flash floods in accordance with the Bologna Declaration and good EU practices
- Within the WP2, the objectives, competencies and outcomes of the curriculum of the new master program will be defined, as well as the bachelor curriculum, which will be promoted in the universities of partner countries
- All proposals for the development of new subjects, as well as changes in the existing syllabus will be harmonized





# WP2: Development of curricula

- Based on the report on flood prevention in the countries of the EU, Serbia and Bosnia and Herzegovina and already developed curricula in this field the objectives, competencies and outcomes of the curricula will be defined within the framework of WP2
- BOKU, USCM and AUTH universities shall organize study visits for teachers from universities from Serbia and B&H
- The harmonization of syllabuses of the subjects at universities in Serbia and B&H will ensure that the engineers have a joint approach to the solving of erosion and torrent control problems





# WP2: Development of curricula

- 9 new subjects will be introduced, and modernization of the existing subjects by introducing new teaching units shall be performed for 18 subjects in the study programs of the first and second degree
- The master program will have a workload of 60 ECTS
- The master program will include: 7 subjects (5 compulsory, 2 electives selected from 10 offered), study-research work, professional practice and master work





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

# WP2: Development of curricula

- Syllabus for subjects will include areas:

land degradation, soil erosion protection, torrential watershed management, land melioration, natural disaster risks management, organizational and socioeconomic aspects of protection from torrential floods

- Up to 50 students will be enrolled in the studies

Co-funded by the  
Erasmus+ Programme  
of the European Union







# WP2: Development of curricula

<b>Tasks</b>	<ul style="list-style-type: none"> <li>- Defined study requirements with Bologna standards</li> <li>- Defined goals, competences and learning outcomes of bachelor and master curricula</li> <li>- Established new and improved existing subjects of bachelor programme</li> <li>- Established new master programme</li> <li>- Study visits to EU partners university and analysis best practices</li> <li>- Harmonization of the proposed changes</li> <li>- Introduce and training teaching staff</li> </ul>		
<b>Estimated Start Date (dd-mm-yyyy)</b>	15-04-2018	<b>Estimated End Date (dd-mm-yyyy)</b>	15-04-2020
<b>Lead Organisation</b>	P2 (UNS-Serbia)		
<b>Participating Organisation</b>	P1 (UB-Serbia); P3 (UNI-Serbia); P4 (UBL-B&H); P5 (UNSA –B&H); P6 (INSZASUM – Serbia); P7 – (BOKU-Austria) P8 ((UNSCM – FYR of Macedonia); P 9 (AUTH – Greece); P10 (FRI-BAS - Bulgaria)		





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

# WP2: Development of curricula

## Task 2.1 Defined study requirements with Bologna standards

- Definition of the conditions for the improvement of the curricula in compliance with the Bologna Process and the existing laws on higher education, statutes and other legal acts
- Partners on the Project: P1-P5, P7-P9 will participate in this activity

Co-funded by the  
Erasmus+ Programme  
of the European Union







# WP2: Development of curricula

<b>Expected Deliverable/Results/Outcomes</b>	Work Package and Outcome ref.nr	2.1.	
	Title	Defined study requirements with Bologna standards	
	Type	<input type="checkbox"/> Teaching material <input type="checkbox"/> Learning material <input type="checkbox"/> Training material	<input type="checkbox"/> Event <input checked="" type="checkbox"/> Report <input type="checkbox"/> Service/Product
	Due date	4 weeks	
	Languages	English	
<b>Target groups</b>	<input checked="" type="checkbox"/> Teaching staff <input type="checkbox"/> Students <input type="checkbox"/> Trainees <input checked="" type="checkbox"/> Administrative staff <input type="checkbox"/> Technical staff <input type="checkbox"/> Librarians <input type="checkbox"/> Other		
	<i>If you selected 'Other', please identify these target groups. (Max. 250 characters)</i>		
<b>Dissemination level</b>	<input checked="" type="checkbox"/> Department / Faculty <input checked="" type="checkbox"/> Institution	<input type="checkbox"/> Local <input checked="" type="checkbox"/> Regional	<input type="checkbox"/> National <input checked="" type="checkbox"/> International





# WP2: Development of curricula

Task 2.2 Defined goals, competences and learning outcomes of bachelor and master curricula

- This activity will include the universities of Serbia and Bosnia and Herzegovina (P1-P5)

<b>Expected Deliverable/Results/Outcomes</b>	Work Package and Outcome ref.nr	2.2.	
	Title	Defined goals, competences and learning outcomes of bachelor and master curricula	
	Type	<input type="checkbox"/> Teaching material <input type="checkbox"/> Learning material <input type="checkbox"/> Training material	<input type="checkbox"/> Event <input checked="" type="checkbox"/> Report <input type="checkbox"/> Service/Product
	Due date	8 weeks	
	Languages	English	





# WP2: Development of curricula

<b>Target groups</b>	XTeaching staff <input type="checkbox"/> Students <input type="checkbox"/> Trainees XAdministrative staff <input type="checkbox"/> Technical staff <input type="checkbox"/> Librarians <input type="checkbox"/> Other		
	<i>If you selected 'Other', please identify these target groups. (Max. 250 characters)</i>		
<b>Dissemination level</b>	XDepartment / Faculty XInstitution	<input type="checkbox"/> Local <input type="checkbox"/> Regional	XNational <input type="checkbox"/> International





# WP2: Development of curricula

Task 2.3 Established new and improved existing subjects of bachelor programme

- Every university will, upon the adoption of the goals/objectives, outcomes and competencies, proceed to form new subjects and the modernization of the existing syllabuses by introducing new curricula units
- P1-P6 will participate in the implementation of this activity





# WP2: Development of curricula

	Type	<input checked="" type="checkbox"/> Teaching material <input checked="" type="checkbox"/> Learning material <input type="checkbox"/> Training material	<input type="checkbox"/> Event <input type="checkbox"/> Report <input type="checkbox"/> Service/Product
	Due date	22 weeks	
	Languages	Serbian, Bosnian	
Target groups	<input checked="" type="checkbox"/> Teaching staff <input checked="" type="checkbox"/> Students <input checked="" type="checkbox"/> Trainees <input checked="" type="checkbox"/> Administrative staff <input type="checkbox"/> Technical staff <input type="checkbox"/> Librarians <input type="checkbox"/> Other		
	<i>If you selected 'Other', please identify these target groups.          (Max. 250 characters)</i>		
Dissemination level	<input checked="" type="checkbox"/> Department / Faculty <input checked="" type="checkbox"/> Institution	<input type="checkbox"/> Local <input checked="" type="checkbox"/> Regional	<input checked="" type="checkbox"/> National <input type="checkbox"/> International





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

# WP2: Development of curricula

## Task 2.4 Established new master programme

- According to the adopted goals, outcomes and competences, the universities of the partner countries will establish a new master program that will be common to all universities
- P1-P6 will participate in the implementation of this activity

Co-funded by the  
Erasmus+ Programme  
of the European Union







# WP2: Development of curricula

<b>Expected Deliverable/Results/Outcomes</b>	Work Package and Outcome ref.nr	2.4.	
	Title	Established new master programme	
	Type	<input checked="" type="checkbox"/> Teaching material <input checked="" type="checkbox"/> Learning material <input type="checkbox"/> Training material	<input type="checkbox"/> Event <input type="checkbox"/> Report <input type="checkbox"/> Service/Product
	Due date	36 weeks	
	Languages	Serbian, Bosnian	
<b>Target groups</b>	<input checked="" type="checkbox"/> Teaching staff <input checked="" type="checkbox"/> Students <input checked="" type="checkbox"/> Trainees <input checked="" type="checkbox"/> Administrative staff <input type="checkbox"/> Technical staff <input type="checkbox"/> Librarians <input type="checkbox"/> Other		
	<i>If you selected 'Other', please identify these target groups.            (Max. 250 characters)</i>		
<b>Dissemination level</b>	<input checked="" type="checkbox"/> Department / Faculty <input checked="" type="checkbox"/> Institution	<input type="checkbox"/> Local <input checked="" type="checkbox"/> Regional	<input checked="" type="checkbox"/> National <input type="checkbox"/> International





# WP2: Development of curricula

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

- Within this activity, study stays with teachers and students from Serbian and Bosnian-Herzegovinian universities at EU countries' and Macedonia's universities are planned
- The goal of the study stays 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





# WP2: Development of curricula

<b>Expected Deliverable/Results/Outcomes</b>	Work Package and Outcome ref.nr	2.5.	
	Title	Study visits to EU partners university and analysis best practices	
	Type	<input checked="" type="checkbox"/> Teaching material <input checked="" type="checkbox"/> Learning material <input type="checkbox"/> Training material	<input type="checkbox"/> Event <input checked="" type="checkbox"/> Report <input type="checkbox"/> Service/Product
	Due date	8 weeks	
	Languages	English	
<b>Target groups</b>	<input checked="" type="checkbox"/> Teaching staff <input type="checkbox"/> Students <input type="checkbox"/> Trainees <input checked="" type="checkbox"/> Administrative staff <input type="checkbox"/> Technical staff <input type="checkbox"/> Librarians <input type="checkbox"/> Other		
	<i>If you selected 'Other', please identify these target groups. (Max. 250 characters)</i>		
<b>Dissemination level</b>	<input checked="" type="checkbox"/> Department / Faculty <input checked="" type="checkbox"/> Institution	<input type="checkbox"/> Local <input type="checkbox"/> Regional	<input checked="" type="checkbox"/> National <input type="checkbox"/> International





# WP2: Development of curricula

## Task 2.6 Harmonization of the proposed changes

- The application of the adopted good practices of the EU universities will be implemented at all the universities and complied with the syllabuses of master programme
- The proposed changes in the existing bachelor curricula will comply between the universities so that the syllabuses of the subjects could contain the adopted fields as priority ones
- Doing so will ensure that graduate students have one unique methodology for solving problems of flood prevention





# WP2: Development of curricula

<b>Expected Deliverable/Results/Outcomes</b>	Work Package and Outcome ref.nr	2.6.	
	Title	Harmonization of the proposed changes	
	Type	<input checked="" type="checkbox"/> Teaching material <input checked="" type="checkbox"/> Learning material <input type="checkbox"/> Training material	<input type="checkbox"/> Event <input checked="" type="checkbox"/> Report <input type="checkbox"/> Service/Product
	Due date	6 weeks	
	Languages	Serbian, Bosnian	
<b>Target groups</b>	<input checked="" type="checkbox"/> Teaching staff <input type="checkbox"/> Students <input type="checkbox"/> Trainees <input type="checkbox"/> Administrative staff <input type="checkbox"/> Technical staff <input type="checkbox"/> Librarians <input type="checkbox"/> Other		
	<i>If you selected 'Other', please identify these target groups. (Max. 250 characters)</i>		
<b>Dissemination level</b>	<input checked="" type="checkbox"/> Department / Faculty <input checked="" type="checkbox"/> Institution	<input type="checkbox"/> Local <input type="checkbox"/> Regional	<input type="checkbox"/> National <input type="checkbox"/> International





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

# WP2: Development of curricula

## Task 2.7 Introduce and training teaching staff

- EU university teachers visiting the universities of the Balkan countries and the conducting of training for teaching classes in the new master programme
- Training will be conducted for teachers from all universities of the partner countries
- All project partners will participate in this activity

Co-funded by the  
Erasmus+ Programme  
of the European Union







# WP2: Development of curricula

<b>Expected Deliverable/Results/Outcomes</b>	Work Package and Outcome ref.nr	2.7.	
	Title	Introduce and training teaching staff	
	Type	<input checked="" type="checkbox"/> Teaching material <input type="checkbox"/> Learning material <input type="checkbox"/> Training material	<input type="checkbox"/> Event <input checked="" type="checkbox"/> Report <input type="checkbox"/> Service/Product
	Due date	6 weeks	
	Languages	English	
<b>Target groups</b>	<input checked="" type="checkbox"/> Teaching staff <input type="checkbox"/> Students <input type="checkbox"/> Trainees <input type="checkbox"/> Administrative staff <input type="checkbox"/> Technical staff <input type="checkbox"/> Librarians <input type="checkbox"/> Other		
	<i>If you selected 'Other', please identify these target groups. (Max. 250 characters)</i>		
<b>Dissemination level</b>	<input checked="" type="checkbox"/> Department / Faculty <input checked="" type="checkbox"/> Institution	<input type="checkbox"/> Local <input type="checkbox"/> Regional	<input type="checkbox"/> National <input type="checkbox"/> International





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

**Thank you for your attention!**

Co-funded by the  
Erasmus+ Programme  
of the European Union

