



SETOF

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

Faculty of Forestry University of Sarajevo

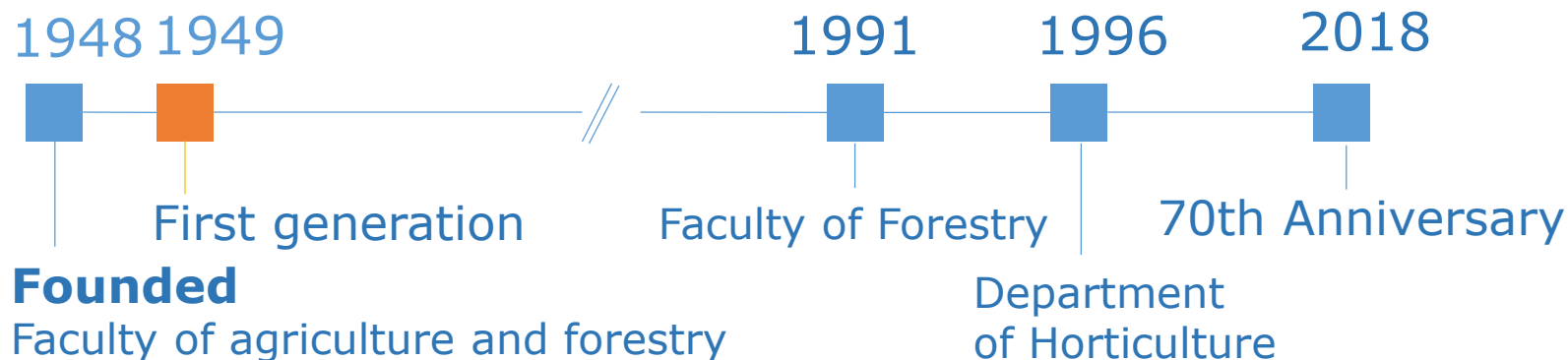
www.sfsa.unsa.ba

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- The Faculty of Forestry Sarajevo (SUFASA) for 70 years it has been growing over its history, developing capacity, facilities, operational processes, and quality assurance, mechanisms for graduate studies, research and creative activities





- Division into two departments (Forestry and Horticulture)
- Further division 6 chairs (Forest Economics, policy and organisation, Forest protection and protection of Urban greenery, Forest silviculture, Forest utilisation and construction, Forest ecology, Forest management).
- Institute for Forestry and Horticulture





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Background

Faculty of Forestry University of Sarajevo educated:
more than 2000 forest engeneers
50 masters of forest sciences
40 PhD



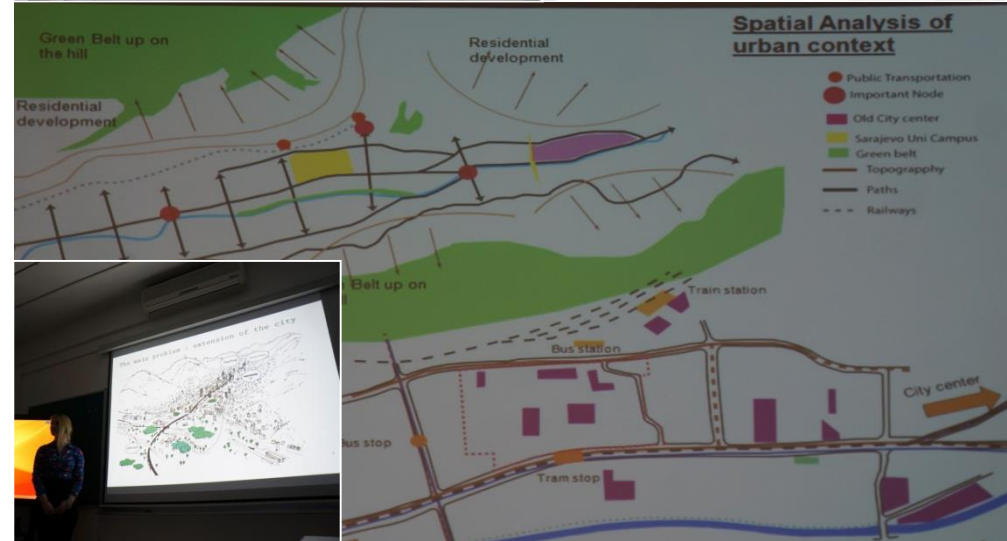
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Background

- Two graduate programs (BSc in Forestry and BSc in Horticulture),
- Two master programs (MSc in Forest Management, MSc in Landscape Architecture)
- One PhD study program in forestry and horticulture.



3+2+3





Background

I Cycle

Akademska godina	Ukupan broj upisanih studenata (prvi put upisani + ponovci)															Ukupno (1.+2.+3.)
	1. Redovni studenti					2. Redovni samofinansirajući					3. Vanredni					
	Godina studija					Godina studija					Godina studija					
	I	II	III	IV*	Ukupno	I	II	III	IV*	Ukupno	I	II	III	IV*	Ukupno	
2016/17	127	54	113		294	44	10	16		70						
2017/18	92	57	61		210	13	23	35		71						





Background

II CIKLUS STUDIJA										
Akademska godina	Ukupan broj upisanih studenata (prvi put upisani + ponovci)									
	1. Redovni studenti			2. Redovni samofinansirajući			3. Vanredni			Ukupno (1.+2.+3.)
	Godina studija			Godina studija			Godina studija			
	I	II *	Ukupno	I	II *	Ukupno	I	II *	Ukupno	
2016/17	23	27	50	17	13	30				
2017/18	24	22	46	11	15	26				





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Academic staff

Academic staff: 35

- Professor: 11
- Associate professor: 11
- Assistant professor: 5
- Teaching assistants: 8

Limited in technical staff members

15% administration staff

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Research priorities

- Main activities of our institution are education and research in the field of forestry, urban forestry and horticulture (economics and policy, planning and management, ecology, silviculture, seedling, nursery and afforestation, utilisation and forest communications, and protection).



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Existing subjects on first and second cycle

BSC: Forestry and Horticulture

- Torrential floods management (A3531)
- Silviculture
- Pedology (A1209, A2424)

Contribution to WG2

MSC: Sustainable forest management and Landscape architecture

- Meliorations of degraded forests (C1109)
- Afforestation of extreme forest stands (C1229)
- Land rehabilitation and erosion control (C2349)
- Soil protection (C1222)
- Soil degradation and rehabilitation (D2332)





List of available infrastructures

- Training centre
Čavle- Igman mnt.
- 30 km from Centre
of Sarajevo
- 20 km from the
Airport,
- 3 km from Virgin
Forest





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- **Alpinetum „Trebević“**



Founded 1948.

- **Arboretum „Slatina“**



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Laboratories and equipement

- DNA laboratory (molecular markers in genetic studies, forest phatology, entomology and wild life organisms),
- Laboratory for Chemistry, Plant Physiology and Soil
- Laboratory for Forestry protection (Entomology and Plant patology),





Laboratories and equipement

- GIS laboratory,
- Laboratory for seed quality analyses,
- Herbarium,
- GPS, GIS, and other measuring instruments for Inventories
- Resistograph (RINTECH),
- Rinntech Schalltomograph ARBOTOM...





Main past and current projects

- 2012-2015, **IPA Adriatic CBC Program**, Adriatic Model Forest (AMF-2^{ord}/0085)
- 2102-2016, COST Action FP1201 - Forest Land Ownership Changes in Europe: Significance for Management and Policy (FACESMAP)
- 2102-2016, COST Action FP1203 - European non-wood forest products (NWFPs) network
- 2102-2016, COST Action FP1204 - Green Infrastructure approach: linking environmental with social aspects in studying and managing urban forests (GreenInUrbs)
- 2102-2016, COST Action FP1207 - Orchestrating forest-related policy analysis in Europe (ORCHESTRA)
- 2012-2016, COST Action TA 1201 - Gender, Science, Technology and Environment (GenderSte)
- 2012-2015, Faculty of Forestry University of Sarajevo, Harmonization of Forest Policy in the Federation of B-H with EU Requirements
- 2012-2014, WWF European Policy Office, Promotion responsible forest management to support sustainable development in Bosnia-Herzegovina
- 2013-2018, COST Action FP1305 - Linking belowground biodiversity and ecosystem function in European forests (BioLink)
- 2016-2020, COST Action CA15226 - Climate-Smart Forestry in Mountain Regions

ERASMUS+ for Western Balkan KA107 Action

Project no. 2015: 2015-1-DE01-KA107-002104

Project no. 2016: 2016-1-DE01-KA107-002484

The Hochschule für Wirtschaft und Umwelt Nürtingen-Gleislingen (HfWU) and Weihenstephan-Triesdorf University of Applied Sciences

- ERASMUS+ KA107 Action KA107 Action

Project no. 2017-1-IT02-KA107-036278

Università degli Studi della Tuscia – I VITERBO01





- Evaluation of bark beetle outbreak – Forestry Programme in Bosnia-Herzegovina -Phare, (1998);
- Preparation of a Multi Country Forestry Programme, -Phare project, (1999);
- “Morphological differentiations between populations of *Pinus heldreichii* Christ (Bosnia Pine) in Bosnia, Kosovo and Albania”- STABILITY PACT FOR SOUTH EASTERN EUROPE and DAAD;
- “*Modélisation de l'expansion d'un ravageur urticant liée au réchauffement climatique*” (ECONET 21339RD);
- Forest management planning study- Phare Project (2000)
- Identifying og High Conserravtion Value Forests (HCVF) in Bosnia-Herzegovina;
- Pathway Evaluation And Pest Risk Management In Transport (PERMIT)- COST FP 1002;
- Building capacity to met the chalenges of muli- level democracy the case of species with trans boundary populations (2008-09);
- Re-creation of Balkan net, a network of conservation bodies 2008-2009 sharing continous large carnivore populations;
- European Masters Program in Management of Ecological and Sustainable Tourism,
- FOPER





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- Global Biodiversity and Environmental Changes in the Mediterranean Region – **NATO – Science For Peace and Security Programme, Colaborative Linkage Grant, 2009-2011.**
- Les plantes emblématiques commes indicateurs des processus microevolutifs dans les Balkans occidentaux – **EcoNet program, Le ministère des Affaires étrangères de Republique Francaise, 2007-08.**

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- 2014 – **LE:NOTRE Landscape Forum** | May 25th-28th 2014 | Sarajevo BiH
- 2015 – THE URBAN LANDSCAPE OF SARAJEVO - RECOVERING TREBEVIĆ
MOUNTAIN | May 2015 | Sarajevo BiH
- 2016 – ALTERNATIVE FUTURES FOR SARAJEVO POLJE | March 13th-19th 2016 |
Sarajevo BiH
- 2017 – SARAJEVO UNIVERSITY CAMPUS: THE POWER OF OPEN SPACE
| October 13th – 23rd 2017 | Sarajevo BiH
- 2018 – GENIAL GREEN INFRASTRUCTURE LEARNING NETWORK | February 2nd 2018 |
ERASMUS + Capacity Building in the Field of Higher Education 2018
(598516-EPP-1-2018-1-DE-EPPKA2-CBHE-JP





Transnational collaborations (European and international)

- Members of SILVA network.
- The primary objective of the SILVA Network is to stimulate and facilitate educational co-operation in the field of Forestry in Europe.
- The secondary objectives will be realised at four levels:
 - Students: to make it possible for students to carry out part of their studies abroad
 - Teachers: to stimulate and facilitate sojourns of teachers abroad
 - Curriculum: to encourage the exchange of information on the development of curricula and the development of joint curricula
 - Courses: to stimulate and facilitate the development of joint courses
- <http://www.silva-network.eu/>





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List of Institutes with active cooperation

- EFI – European Forestry Institute,
- Croatian Forestry Institute- Jastrebarsko,
- Slovenian Forestry Institute- Ljubljana,
- Institute of Lowland Forestry and Environment- Novi Sad,
- Institute of Forestry- Belgrade,
- INRA- France,
- Di.V.A.P.R.A- Torino,

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- CNR- Firenze,
- UniSUBRIA- Varese,
- WSL- Zurich,
- Institute of Forest Entomology, Forest Pathology and Forest Protection –BOKU-Vienna,
- Austrian Federal Research and Training Centre for Forests, Natural Hazards and Landscape – BFW-Vienna,





- Norwegian Institute of Land Inventory -Äs,
- National forest centre- Zvolen,
- Institut des Sciences du Végétal, CNRS UPR 2355,
91198 Gif-sur-Yvette, France
- - CNRS, AgroParisTech, Ecologie, Systématique,
Evolution, Université Paris-Sud, Orsay Cedex,
France,
- LSP- Teisendorf





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WP6: Project management

- Project Management Unit (PMU)
- Steering Committee (SC)
- Quality Assurance Committee (QAC).

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PMU

PMU

- Management of implementation of project activities and provide scheduled time execution.
- **PMU** is consisted of project coordinator, WP leaders and representatives of the universities from partner countries
- Consortium: partners from the Western Balkans and the partner countries of the European Union and Macedonia





PMU

- PMU will report to the Steering Committee during the realization of the project.
- PMU coordinator, in cooperation with other members will prepare regular meetings and records of meetings.
- The coordinator will monitor the engagement of work packages leaders, while during the meetings PMU shall adopt their report on the progress of work.





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Preparatory work package

- For the preparatory work package a major role will belong to partners from the EU countries and Macedonia.
- They will transfer the acquired knowledge and experience which they involved in study programs at universities.

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SC

- SC is composed of representatives of all universities which are partners in the project.
- The body is responsible for the operational, administrative and financial implementation of the project.
- SC is responsible for cooperation with the Education, Culture and Audiovisual Executive Agency (EACEA).
- SC president will be the University of Belgrade (UB).





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QAC

- QAC, the third body of the project will be responsible for the implementation of the quality plan and cooperation with the national Erasmus + Offices.

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Tasks

- Project management meetings
- Steering committee meetings
- Guidelines on the reporting and correspondence
- Day-to-day coordination of project activities
- Interim and finale report meeting

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Lead organisation:

P1 - UB-Serbia

Participating Organisation:

P2 - UNS-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

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6.1. Project management meetings - PMU

Expected outcomes:

Event, report

The Project Management Meeting will be held **7 times** during the implementation of the Project. The meetings will be organized by UB-Serbia- WPL.

In the work of the PMU, the work-package leaders and representatives of the other partner institutions will participate. Minutes of Meeting will be adopted by the SC.

Due date: 8 weeks

TG: Teaching staff, Administrative staff

Dissemination level: Regional and international





6.2. Work package and outcome - **Steering committee meetings**

- Event, report
- The Steering Committee (SC) is composed of the representatives of all the universities that are the partners on the Project.

During the Project implementation, the Steering Committee will have 6 meetings, in the periods of 6 months. The SC members will be adopting reports submitted by the PMU and QAC.

Due time: 6 weeks

TG: Teaching stuff, Administrative stuff

Dissemination level: International





6.3. Work package and outcome - Guidelines on the reporting and correspondence

- Report
- The manner in which Reports on Meetings of Project Authority/-ies are going to be prepared and the manner in which correspondence will be kept between the participants will be determined at the beginning of the Project implementation. On the basis of established rules, the PMU will create and adopt the Guidebook that will be binding for all the Project participants.
- Due date: 5 weeks
- TG: Teaching staff and administrative staff
- Dissemination: Department/Faculty, Regional, International





6.4. Work package and outcome - Day-to-day correspondence of project activities

- Report
- Day-to-day correspondence enables the transfer of necessary information for the performance of the Project-related activities. Correspondence will be kept according to the adopted Guidebook, and WPL, UB-Serbia is responsible for successful communication.
- Due date: 52 weeks
- TG: Teaching staff, students, trainees, administrative staff
- Dissemination level: Department/Faculty, Local,
- National, Institution, Regional, International





6.5. Work package and outcome – **Interm and final report meeting**

- Event, report
- These meetings should be held in the second and third years of the Project implementation, and there will be 4 meetings in total. The meetings are envisaged to be attended by the members of all the working bodies of the Project. UB-Serbia shall be responsible for the preparation of such meetings as well as for taking Minutes of Meeting Held.
- Due date: 19 weeks
- TG: Teaching staff, Administrative staff
- Dissemination level: Department/Faculty, National, Institution,
Regional, International





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- WP6 : Management
- 834 staff days
- 59 visits : WB to EU (31x3 days); EU to WB (28x3 days) for coordination and consultation

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Consortium partners involved and resources required to complete the work package

6. Project management	P1	UB	Serbia	90	40	30	10	170	WP lead	
										Meetings of Project Management Unit, Steering Committee and Quality Assurance Committee
	P2	UNS	Serbia	55	45	0	10		110	Meetings of PMU,SC and QAC
	P3	UNI	Serbia	60	15	30	15		120	Meetings of PMU,SC and QAC
	P4	UBL	Bosna and Hercegovina	45	50	10	10		115	Meetings of PMU ans steering committee
	P5	UNSA	Bosna and Hercegovina	40	60	10	10		120	Meetings of PMU ans steering committee
	P6	INSZASU	Serbia	20	15	10	0		45	Meetings of PMU ans steering committee
	P7	BOKU	Aus	10	10	0	0		20	Meetings of PMU ans steering committee
	P8	UNSCM	Macedonia	25	12	15	0		52	Meetings of PMU,SC and QAC
	P9	AUTH	Greece	15	12	0	0		27	Meetings of PMU,SC and QAC
P10	FRI-BAS	Bug	25	20	0	10	55	Meetings of PMU,SC and QAC		
SUBTOTAL				385	279	105	65	834		





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