

# WP2 DEVELOPMENT OF CURRICULA Deliverable 2.1 Defined study requirements with Bologna standards

**Participating Organisation:** UB; UNS; UNI; UBL; UNSA; BOKU; UNSCM; UNIRC

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The activity includes the 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

The development of the Bologna Process in European countries, as well as other legal acts and strategy, will also be analyzed and compared with the degree of the application of the Declaration at the universities of the Balkan States

- Institutional and legal framework of higher education Law on Higher Education
- Analysis of the system of the undergraduate and graduate studies comparing to the Bologna Declaration
- Analysis of the system of credits ECTS system comparing to the Bologna Declaration
- Analysis of credibility and comparability of degrees and Diploma Supplements
- Analysis of the mobility of students, teachers and researchers





The Bologna Declaration was signed in 1999 by ministers responsible for higher education from 29 European countries

Initiated a European cooperation process that has radically changed higher education

Reforms have affected countries within and beyond Europe, and the number of official signatory countries has risen to 48

Bologna Process started with signing Bologna Declaration and aims to create a unified European system of university teaching and research by 2010 while recognizing the diversity of national specificities (culture, language, tradition, etc.)

The key ideas arising from the Bologna Declaration are:

- Establishment of a European Higher Education Area,
- Adoption of a new study structure consisting of 3 cycles,
- Promoting student and teacher mobility,
- Adoption of a system of comparable degrees





Italy signed the agreement established by the Bologna Process in 1999, which defines the European Higher Education Area (EHEA) that is nowadays implemented in the country

Serbia signed the Bologna Declaration in 2003

The Law on Higher Education (LHE) adopted in 2005 regulates the system of higher education in Serbia

This law introduced the principles of the Bologna Declaration and the Lisbon Convention and created the basis for Serbia's inclusion in the European Higher Education Area

**B&H** was included in the Bologna Process in 2003

During the academic year 2003/2004, all existing public universities in B&H were included in the institutional evaluation of the European University Association (EUA)

**Republic of Macedonia** became a member of the European family of countries committed to implement the Bologna declaration in 2003

Starting at 2002/03 and up to 2005, most of the faculties in Republic of Macedonia have decided to implement ECTS and the process of curricula reform was completed in the academic 2008/2009





The Law on Higher Education (2018) supports the implementation of the Bologna Process

The higher education system in Serbia offers two types of studies:

- Academic studies realized at universities
- Applied studies organized either at colleges of applied studies or at universities

The <u>first</u> level of studies includes:

- Undergraduate Academic Studies (Bachelor) lasting for 3-4 years, carrying 180 to 240 ECTS
- Bachelor of Applied Studies lasting for 3 years, carrying 180 ECTS





The second level of studies includes:

- Master Academic Studies lasting for 1-2 years and carrying 60 to 120 ECTS
- Master Applied Studies lasting for 2 years and carrying at least 120 ECTS for students who have previously achieved 180 ECTS
- Specialized Applied Studies lasting for 1 year and carrying 60 ECTS
- Specialist Academic Studies lasting for 1 year and carrying 60 ECTS, for students who have achieved at least 300 ECTS in previous studies

The <u>third</u> level of studies includes Doctoral Academic Courses (Ph.D.), including a minimum of 3 years of study or 180 ECTS

In the field of medical science integrated courses are organized

They are 6 years long and carry a minimum of 360 ECTS, Pharmacy studies also offer integrated courses that carry 300 ECTS

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University of Belgrade, Faculty of Forestry

These study programs of undergraduate studies last for 4 years, after which the students obtain 240 ECTS and the professional titles:

- Graduate forest engineer students who graduate from the study program Forestry
- Graduate engineer of technologies, management and design of furniture and wood products students who graduate from the study program Technologies, management and design of furniture and wood products
- Graduate engineer of landscape architecture students who graduate from the study program Landscape architecture
- Graduate forest engineer students who graduate from the study program Ecological engineering for soil and water resources protection





University of Belgrade, Faculty of Forestry

The study program of master's degree studies lasts for one year and the students obtain 60 ECTS upon graduation. It is implemented as four different study programs:

Forestry, Technologies, management and design of furniture and wood products, Landscape Architecture and Ecological engineering for soil and water resources protection

Upon graduation from the master's degree study program students obtain the following academic titles:

- Master engineer of forestry (Forestry)
- Master engineer of technologies, management and design of furniture and wood products
- Master engineer of landscape architecture
- Master engineer of forestry (Ecological engineering for soil and water resources protection)





University of Belgrade, Faculty of Forestry

The study program of doctoral academic studies lasts for 3 years and the students acquire 180 ECTS It is organized as a single study program with 4 modules:

Forestry, Technologies, management and design of furniture and wood products, Landscape architecture, and Ecological engineering for soil and water resources protection





University of Novi Sad, Faculty of Agriculture

The first level of studies - Bachelor studies last for 4 years, after which the students obtain 240 ECTS and the professional titles of Bachelor of Sciences in:

Organic Agriculture, Agroecology and Environmental Protection, Agricultural Economics, Agricultural Engineering, Agritourism and Rural Development, Agroindustrial Engineering, Crop Science, Fruit Science and Viticulture, Horticulture, Landscape Architecture, Phytomedicine, Animal Science, Veterinary Medicine, Water Management

The study program of master's degree studies lasts for one year and the students obtain 60 ECTS upon graduation and it is implemented as 16 different study programs

The study program of doctoral academic studies lasts for 3 years and the students acquire 180 ECTS It is organized as three study programs: Agronomy, Agroeconomics and Veterinary Medicine





University of Niš, Faculty of Occupational Safety

Within the basic academic studies (4 years, 240 ECTS), the Faculty has a two study programs:

Occupational Safety and Environmental Safety

Master academic studies last for 1 year and the students obtain 60 ECTS upon graduation Master studies include five study programs:

Occupational Safety Engineering, Fire Protection Engineering, Environmental Engineering, Emergency Management and Communal System Management

Doctoral academic studies last for 3 years and the students acquire 180 ECTS

Doctoral studies include two study programs: Occupational Safety Engineering and Environmental Engineering

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Main documents in the field of quality assurance in higher education in B&H are Standards and Guidelines for Quality Assurance in Higher Education in B&H and Recommendations for the Implementation of Quality Assurance in Higher Education in B&H (Decision of the Council of Ministers of B&H from December 27<sup>th</sup> 2007 on the adoption of documents required for further implementation of the Bologna Process in B&H - Official Gazette of B&H, No. 13/08)

The third key document defining the quality assurance system in B&H is the Framework Law on Higher Education in B&H, adopted in 2007 (Official Gazette of B&H, No. 59/07 and No. 59/09)

B&H has a complex political and administrative structure that contributes to creating a specific environment for the higher education field

Education in B&H, including higher education, is under the complete and undivided jurisdiction of the Entities of Republic of Srpska, ten cantons in the Federation of B&H and the Brčko District of B&H

Each of the 12 administrative units has its own ministry of education / department of education, laws for the field of education, budgets for education, establishes educational policy

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University of Sarajevo, Faculty of Forestry

Studies are organized as a three-cycled system based on 3+2+3 (ECTS: 180+120+180) model of study

There are two departments at the Faculty of Forestry in Sarajevo: Forestry and Horticulture

The Forestry Department: Bachelor of Forestry and Master of Forestry (Sustainable Forest Management – master study program)

The department of Horticulture: Bachelor of Horticulture and Master of Science in Horticulture (Landscape Architecture – master study program)

The third cycle of study lasts for three academic years (six semesters), and the volume of study program of these studies is evaluated with 180 ECTS study points





University of Banja Luka, Faculty of Forestry

Studies are organized as a three-cycled system based on 4+1+3 (ECTS: 240+60+180) model of study

In the past, faculty was organized as 3+2+3 (ECTS: 180+120+180) model of study

First cycle studies are organized on two study programs: Forestry and Wood Processing

On graduation students are obtaining the qualifications of "Bachelor of Forestry Engineering – 240 ECTS" or "Bachelor of Wood Processing Engineering – 240 ECTS"

Second cycle (master) studies are offered as one or two year studies (two or four semesters) and are valuated with 60 ECTS credits or 120 ECTS)

There are three modules of one-year master degree Forestry program: "Silviecology and Forest establishment", "Silviculture, Forest protection and Planning forest management" and "Forest Use, Organization, Economics and Hunting"





University of Banja Luka, Faculty of Forestry

For students that are graduated on three year "bachelor" programs that are valuated with 180 ECTS credits, there are three study modules of a two-year master degree Forestry program: "Silviculture and Forest protection", "Forest Use" and "Forest Management"

Those programs lasts for two years (four semesters) and are valuated with 120 ECTS credits

Third cycle of postgraduate, doctoral studies leads to scientific degree of "Doctor of Forestry Sciences – 480 ECTS" and is offered at three year doctoral study program of Forestry





#### **MACEDONIA**

The Ministry of Education and Science is in charge of education

Separate legislation exists for all education types (primary, secondary and high education)

Beside the ministry, National Agency for European educational programs and mobility exist

The main legal act for the higher education sector is the Law on Higher Education (Official Gazette of RM nr.82/2008, 8.V.2018), which contains, inter alia, provisions for the harmonization of higher education in the country with the Bologna Process and the European Credit Transfer System, and also provides legal a basis for teaching staff status and student mobility





#### **MACEDONIA**

Ss. Cyril and Methodius University in Skopje, Faculty of Forestry

The Faculty of Forestry has 3 undergraduate academic programs: forestry, landscape design, ecoengineering and eco-management),

2 postgraduate academic programs: forestry, landscaping and environment promotion

Doctoral studies hasn't been established yet

The Faculty of Forestry accepted study model: 4 + 1 + 3 i.e. BSc – 240 ECTS (graduated engineer of: forestry/landscape design/ecoengineering and eco-management), MSc – 300 ECTS (Master of Science), PhD – 480 ECTS





## **ITALY**

In Italy, at the end of 1999 a Ministerial Decree – DPR 509 (under parliamentary delegation) was passed introducing a system of undergraduate/postgraduate curricula

The cornerstone of the new degree system was the replacement of the old one-tier laurea by a two-tier structure consisting of a new three-year laurea (L) and a five-year laurea specialistica (LS)

All universities in Italy have adopted a bachelor/master structure

The '3+2 years' system for bachelor and master programs has emerged as the most prominent model

There are some courses in some Italian universities that preferred to maintain the old system (in general, architecture, medicine, pharmacy, dentistry and veterinary science)

In the first cycle, the 180 ECTS workload is the most widespread

In the second cycle, the 120 ECTS model is by far the most widespread





The trend for internationalization is growing across the EHEA

However, mobility flows and the level of engagement in internationalization activities vary considerably from country to country

# **University of Belgrade**

The University of Belgrade has a very long tradition in academic and cultural exchange, as well as interuniversity and international cooperation with universities within the country and abroad

The bilateral agreements of cooperation concluded with more than 180 universities on every continent, membership in European university associations and networks

UB is a partner in many mobility programs (ERASMUS, CEEPUS, bilateral agreements, etc.)





# **University of Novi Sad**

University of Novi Sad has bilateral agreements of cooperation concluded with more than 140 universities in around 40 countries and is partner in ERASMUS mobility programs with more than 200 universities in 30 countries

Current exchange programs also take place under COST actions, CEEPUS, CEI (Central European Initiative), Creative Europe, etc.

# **University of Niš**

The University of Niš maintains rich bilateral and multilateral collaboration with many academic and research institutions and associations from the country and abroad

Participates in many international programs such as ERASMUS, CEEPUS, MEVLANA, TEMPUS, HORIZON 2020, etc.

The University of Niš has established contract-based cooperation with a number of foreign partners, more than 130 universities worldwide in more than 30 countries.

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# University of Sarajevo

The mobility of students, academic staff (teachers and researchers) at UNSA is achieved through national and international support programs for expert and scientific training

International projects are under COST actions, ERASMUS + and WUS. Within the Erasmus+ KA107, mobility is achived with 1) the University of Tuscia (Italy), 2) the University of Poznan (Poland), 3) the Hochschule für Wirtschaft und Umwelt Nürtingen-Gleislingen (Germany); 4) Hochschule Weihenstephan-Triesdorf (Germany), 5) Buckinghemshir University (United Kingdom) and (University Iuav of Venice, Department of Architecture and Arts)

The programs at Faculty of Forestry are largely aligned with the programs of countries in the region, including Serbia, Croatia, Montenegro and Macedonia

There is a mismatch between the study programs compare to the European Union countries, with which cooperation agreements have been signed and projects implemented within the ERASMUS + program

The main reason for the limited outgoing student mobility is program mismatch. The main reason for the limited incoming mobility is the lack of English language classes

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# University of Sarajevo

The Faculty of Forestry is a member of the following international associations: IUFRO, EFI, IFSA, EVOLTREE, ECLAS

In the period 2006 - 2013, the Faculty, in cooperation with the Faculty of Forestry in Belgrade, implemented the Master Program in Forest Policy and Economics (FOPER), where the teaching was conducted in English





# University of Banja Luka

Internationalization of higher education and mobility as its main pillar is set as one of the strategic objectives in the Strategy of Development of Education in RS for a period 2015-2020

Current exchange programs take place under COST actions, ERASMUS +, CEEPUS, etc.

In 2019, the Faculty of Forestry became the coordinator of the CEEPUS network called "Managing forests for climate change"

During 2018, UBL student and academic staff exchange activities were implemented within the CEEPUS program through 11 different active networks and four so-called Umbrella networks

The programs at the Faculty of Forestry of UBL are fully aligned with the programs of the countries in the region, including Serbia, Croatia, Montenegro and Macedonia

The main reason for the limited outgoing student mobility is the inconsistency of the program, as well as the lack of a procedure for recognizing the completed classes and exams during the mobility, the main reason for the limited incoming mobility is the lack of English language classes

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## Macedonia

In Macedonia the most important public institution which is responsible for implementation and promotion of the European educational programmes is National Agency for European Education Programmes and Mobility

Program beneficiaries are: learners, students, teachers, professors, educators and other personnel engaged in any stage of educational process, enterprises and other legal bodies including commercial entities, chambers of commerce and other associations of legal bodies in the field of industry, research centers and bodies, as well as citizen associations and foundations

The only programme for universities is Erasmus

Some faculties are in network with same faculties form other countries (e.g. Veterinary medicine - VetNEST ,CEEPUS programme, etc.)

Faculty of Forestry in Skopje: in past it was through the project FOPER 1 and 2, now current project with Bern University of Applied Sciences - School of Agricultural, Forest and Food Sciences

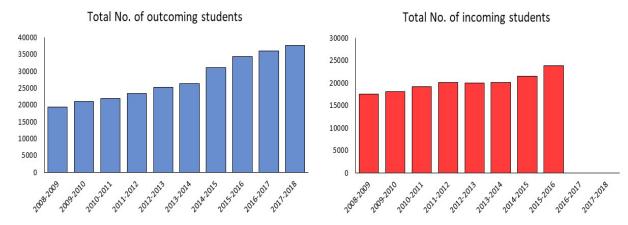


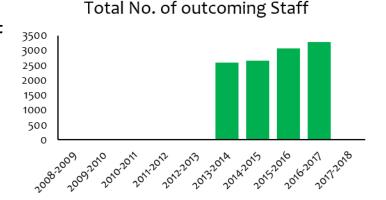


# Italy

In Italy, after 2007, the general number of students and staff in mobility for the Erasmus Programme is increasing

This trend is respected by the number of outgoing staff (both for teaching and training activities)









#### **SUMMARY**

- Italy, Serbia, B&H and Macedonia signed the Bologna Declaration
- Three-cycled system based on 4+1+3 (ECTS: 240+60+180) model of study:
   Universities of Belgrade, Novi Sad and Niš
   University of Banja Luka, Faculty of Forestry
   Ss. Cyril and Methodius University in Skopje, Faculty of Forestry
- Three-cycled system based on 3+2+3 (ECTS: 180+120+180) model of study:
   University of Sarajevo, Faculty of Forestry
   University Mediterranea of Reggio Calabria
- All universities are actively involved in motilities of students, teachers and researchers





# Thank you for your attention!

