CONSORTIUM MEETING + STUDY VISIT + TRAINING



Date: July 2<sup>nd</sup> to July 6<sup>th</sup>, 2018 Place: Ohrid, Macedonia

## Knowledge FOr Resilient soCiEty

## LLL COURSE PREPARATION AND IMPLEMENTATION

University of Novi Sad



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# Possibilities for accreditation of LLL courses or their formal recognition

- UNS short study programs
- FTS professional LLL courses
- Permanent educations trough professional societies
- Permanent education for teachers in secondary schools
- Legislative Framework (background)
- Possibilities and Obstacles
- Planned Contents and Certification





## UNS short study programs

#### Legislative Framework (background)

According to Serbian Higher education Law (29.09.2017.), one of the basic objectives of higher education is to - ensure equal conditions for the acquisition of higher education and education throughout life

- For the purpose of vocational training of persons with acquired higher education for inclusion in the work process, a **short program of studies** with a clearly defined structure, purpose and learning outcomes is carried out, and for which the certificate of completion of the short study program and acquired competencies is issued.

-A short program of studies can be performed to the extent of **30 to 60 ECTS**.





#### UNS Statute 5.04.2018.

#### Short program of studies

Article 104

The university and higher education units can perform a short study program, works vocational training of persons with acquired higher education for inclusion in the work process, in accordance with the guidelines established by the National Council for Higher Education.

The short program of study has a clearly defined structure, purpose and learning outcomes, established by the general act of the University or higher education unit. Each subject from a short study program is indicated by the number of relevant ESPB points, and the scope of the short program of study is expressed by the sum of ESPB points, in the range of 30-60 points.

The university or higher education unit issues the certificate to the program participants about completed short study program and acquired competencies.

The university, or higher education unit, keeps records of the participants and issues it certificates of completion of the short study program.

<u>The content of the form of the certificate of the short study program is prescribed by the</u> <u>Minister.</u>





#### EQF – NOKS (NQFS)

Short study program wont change the qualification level (NQF=EQF=7), it will arise and develop competencies

#### Obstacles for the Short program of studies 'till the end of K-Force

- transitional and final provisions of HE Low:
- deadlines for establishing new accreditation and certification bodies,
- Legislative harmonization time limits from 6 to 24 months.
- Illustration:
- ✓ UNS Statute (5.04.2018.)
- ✓ National Council for Higher Education (12.04.2018.) guidelines ?
- ✓ Prescribed form of certificate by Minister ?
- ✓ Faculty of Technical Sciences NS will harmonize Statute with HE Low

2.07.2018. – <u>first draft?</u>

✓ etc....





## FTS professional LLL courses

#### Education throughout life

#### Article 103

#### UNS Statute 5.04.2018.

The university, or higher education unit, can independently or in cooperation with other higher education institutions to implement education programs throughout their lives outside the study program framework for which he has a work permit.

#### Educational programs throughout the life are determined by the Senate, i.e. teachingscientific higher education units.

Educational programs throughout their lives are realized through courses, seminars, workshops, professional and scientific consultations and other forms of training, on which participants are get acquainted with certain areas of profession and science for the purpose of extending and deepening the knowledge gained knowledge and successful work in practice. An institution shall issue <u>a certificate to the person</u> who has mastered the program referred to in paragraph 1 of this Article.

A person enrolled in the program referred to in paragraph 1 of this Article does not have the status of a student, in the sense of the law and of this Statute.

The conditions, method and procedure for the realization of education programs throughout their lives are regulated by a general act issued by the Senate, or higher education unit.

#### FTS Statute 2.07.2018

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#### FTS professional LLL courses

#### EQF – NOKS (NQFS)

Short professional courses arise and develop competencies

**Certification** – in a form approved by UNS Senate or FTS Council, without ECTS, Count of hours attended

Possibilities for the organization of professional courses <u>- good</u> + Possibilities of linking with courses for permanent development trough professional societies – <u>good</u>

#### Planned LLL courses:

- Natural disasters and other accidents risk assessment
- Evacuation calculation and modeling
- Financial resilience to hazards

*Durations* : 28 teaching hours = 4 days

**Prerequisites for LLL course enrolment/attendance:** Diploma – BSc in Engineering, Architecture, Technology, Security, etc...





#### LLL 1: Natural disasters and other accidents risk assessment

Linked master programme course :

Linked master programme course topics to be covered:

standard teaching hours: 28

course schedule required for effective content delivery:

prerequisites for the LLL course enrolment / attendance

Main outcomes of the LLL course



Protection and Rescue Plans

06.ZP512

Disaster risk assessment methodology, according to Serbian Law on Emergencies. Natural disaster and natural catastrophe (earthquakes, floods, landslides). Technicaltechnological accidents and wild fires. Preventive measures

Medium blocks (2 to 4 days)

diploma: BSc in Engineering, Technology, Security

#### The maximum attendants per group : 30

Increased theoretical knowledge in disaster risk management. Capable to identify and classify and assess risks according to Serbian Law . Capable to assess vulnerability of people and environment Capable to design preventive and mitigation measures of the European Union

#### LLL 2: Evacuation calculation and modeling

Linked master programme course :

Linked master programme course topics to be covered:

standard teaching hours: 28

course schedule required for effective content delivery:

prerequisites for the LLL course enrolment / attendance

Main outcomes of the LLL course



#### 06.URZP74 Evacuation calculation and modeling

Basic concepts and definitions of evacuation, Evacuation decision making and human behaviour in fire, Egress strategies, Evacuation stages, Evacuation corridors, Evacuation walking speeds, Calculation of evacuation, Computer modeling of evacuation, Evacuation drills, Evacuation plans and procedures, Occupancy calculation.

Medium blocks (2 to 4 days)

Diploma: BSc in Architecture, Engineering, Technology, Security The maximum attendants per group : 20

Increased theoretical knowledge in evacuation decision making and human behaviour in fire Gained understanding of evacuation strategies Capable to calculate and use simulation software for Co-funded by the evacuation plans **Erasmus+ Programme** of the European Union



#### LLL 3: Financial resilience to hazards

Linked master programme course :

Linked master programme course topics to be covered:

standard teaching hours: 28

course schedule required for effective content delivery: Medium blocks (2 to 4 days)

prerequisites for the LLL course enrolment / attendance

Main outcomes of the LLL course



#### Financial resilience to hazards

06.ZP511

Economic framework, Defining financial resilience to hazards, Financial resilience in the disaster management cycle, Risk assessment, Catastrophic risk modeling for financial solutions, Financial protection: diagnosis, strategy and action plans, Analytical tools for financial decision-making, Disaster risk financing, Financial mechanisms and tools (domestic and international), The importance of disaster risk financing in disaster risk management., EU Civil Protection Mehanizm Directive

Diploma: BSc in Economics, Engineering, Technology, Security The maximum attendants per group : 30

Increased theoretical knowledge in risk economics and financing. Gained understanding in financial preparedness. Capable of calculation of potential financial losses



## LLL trough professional societies (SChE)

**The Law on Planning and Construction** (Official Gazette of the Republic of Serbia, 47/2003 and 34/2006.... 145/2014) regulates the establishment of the **Serbian Chamber of Engineers** with its seat in Belgrade.

The Chamber was established to improve the conditions for performance of the professional work in the field of the spatial and city planning, design and construction, and in other fields of relevance for planning and construction; protect the general and individual interests in these fields; organize rendering of services in these fields, and also to achieve other objectives set by the Chamber Statute.

The Serbian Chamber of Engineers, besides management, organizational and financial units, consists from 4 Sections Department and 5 subsections:

- Section of planners ;
- Section of urban planning engineers;
- Section of designers;
- Section of contracting engineers;

Central office - Regional Organization of the Chamber (9 Regional offices)





#### SChE professional development courses

Since May 2005, the Serbian Chamber of Engineers has been conducting a **cycle** of one-day lectures and courses on the most topical subjects, fields and problems related to the engineering theory and practice, within its project of the permanent professional development intended for its members.

The topics include different fields in design, construction, urban planning, spatial planning, management, information technology, and the issues in connection with the legal procedures. The <u>attendance is free of charge</u> for the Chamber members; the attendees receive the hard copy and CD format of the material supporting the course.

In addition to the continuing education, the Serbian Chamber of Engineers publishes its periodical "Glasnik" four times a year and delivers it free of charge to each of the Chamber members in order to provide them with the useful information from all fields of the engineering profession.





SChE professional development courses

Certification – COLLECTING POINTS FOR PROFFESIONAL LICENSE Number of points necessary for evaluation of license: 100p / 5 years Average estimation: 7 teaching hours = 1 day = 10p for attendants 2 hours lecture = 5p for attendants 1 lecture for teacher – 10p

## Possibilities of linking FTS short courses with SCE professional development courses – steps:

• Submit the valid proposal of FTS LLL courses for permanent development to Regional chamber office in Novi Sad

• After regional discussion, Executive Board of Chamber in Belgrade consider and approve the proposal (content and number of points).

#### Remarks about planned FTS LLL courses:

- **Durations** : 28 teaching hours = 4 days to separate in  $2 \times 2$  days.
- To prepare some topic 2 hours lectures





### • LLL for secondary school teachers

Institute for the Promotion of Education of Serbia (ZUOV) Professional Development of Teachers trough elected LLL course

The course has to satisfy

Standards of competence for profession of teachers and their professional development

K1: Competencies in the field of teaching, subject and teaching methods

K2: Competencies for teaching and learning

K3: Competencies to support the development of students' personalities raising awareness about the safety of civil society, risks and protection in schools

K4: Competencies for communication and cooperation





## LLL for secondary school teachers

Besides that the course has to satisfy improvement of competencies, it has to mach one of the **priority fields**:

- P1: individualized approach in working with children, students and students using different methods and forms of work in realization of teaching subjects and / or fields
- P2: monitoring and evaluating educational achievements, ie monitoring and encouraging the development of children, pupils and students
- P3: selection, creation, adaptation and use of textbooks, other didactic-methodical materials and other sources of knowledge for a particular subject, or educational area
- P4: creating a tolerant and non-discriminatory environment for the learning and development of each individual, protection from violence, abuse, neglect and discrimination

P5: identifying and responding to security and safety risks





Professional development courses for secondary school teachers

**Certification – COLLECTING POINTS FOR PROFFESIONAL LICENSE** Number of points necessary for evaluation of license: ?/year Average estimation: ?

Obstacles and needs for LLL courses for professional development of teachers :

 to adapt planned courses according to specific standards for competencies and priority fields for teacher

• to submit the valid proposal of LLL courses for permanent development of teachers to IPES Belgrade trough public call or to contact Office in Novi Sad

#### Remarks about planned LLL courses:

- all secondary schools need evacuation and courses in the state of emergency and high risks.
- Vocational secondary schools need courses about self-protection at work.



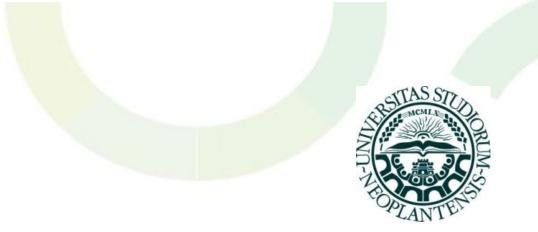


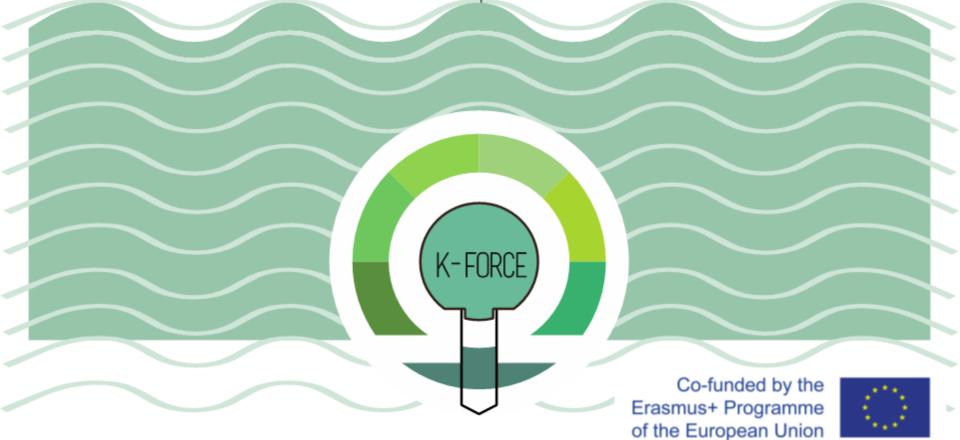


#### Summary :

- University short study programs
- ✓ Faculty professional LLL courses
- Permanent educations trough professional societies
- Permanent education for teachers in secondary schools

**Questions and discussion: ?**:





# Thank you for your attention

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