



Ohrid, June 2018.

Knowledge **FO**r Resilient so**CI**ety

LLL (Life Long Learning) Courses
University of Banja Luka

*Module **DISASTER RISK MANAGEMENT***
STUDY PROGRAM CIVIL ENGINEERING

Faculty of Architecture, Civil Engineering and Geodesy



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



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*In scope of **ERASMUS+ K-FORCE** project Faculty of Architecture, Civil Engineering and Geodesy will organize two (LLL) courses:*

1. EARTHQUAKE RESISTANT DESIGN

(ASEIZMIČKO PROJEKTOVANJE)

2. CONSTRUCTIVE RULES FOR FIRE SAFETY OF BUILDINGS

(GRAĐEVINSKE MJERE ZAŠTITE OD POŽARA)

The participants of the course can be all graduates of technical faculties with min 240 ECTS.



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Example of LLL course structure

5 minutes

Dean Welcome Note

10 minutes

Introductory Lecture 1

10 minutes

Introductory Lecture 2

(No. of lectures not yet determined)

30-40 minutes

1st lecture: Topic Professor

30-40 minutes

2nd lecture: Topic Professor

(No. of lectures not yet determined)

30 minutes

Discussion

30 minutes

Coffee Break

10-15 minutes

Presentation of stakeholders

15-25 minutes

3rd lecture: Topic Professor

15-25 minutes

4th lecture: Topic Professor

(No. of lectures not yet determined)

15 minutes

Discussion

30 minutes

Test

Awarding of the certificates





LLL course **“Earthquake Resistant Design”** aims to raise awareness of objects construction design in seismically active areas with accordance to the Eurocodes (EC).

Professional lectures on this subject will be held by eminent professors from partner universities, representatives from the economy and institutions dealing with this field (IZIIS, HMZRS, BAS), as well as professors from the University of Banja Luka.

Guest professor (UKIM);

Prof. dr Drago Trkulja;

Snježana Cvijić-Amulić;

Bojana Zečević;

Prof. dr Damir Zenunović;

Prof. dr Mato Uljarević;

Assist. prof. dr Gordana Broćeta;

mr. Radovan Belesin;

Žarko Lazić;

Radovan Vukomanović.





LLL course „**CONSTRUCTIVE RULES FOR FIRE SAFETY OF BUILDINGS**“ is aimed at raising awareness of fire design of constructions, i.e. designing fire resistant structures.

Professional lectures on this subject will be held by eminent professors from partner Universities, representatives from the economy and institutions dealing with this field as well as professors from the University of Banja Luka.

Guest professor from PC (DTU;AAU;LU;UNIZA;UKIM)

Ass pr. Vinko Babić;

Ass pr. Stevo Borojević;

Ass pr. Saša Čvoro;

Goran Marčeta;





The first lecture will be given by **ass. pr. Vinko Babić**, professor at the Faculty of Mechanical Engineering, where participants will be briefed on the basic concepts of fire, as well as systems for warning and fire extinguishing.

Second lecture will be given by **ass. pr. Stevo Borojević**, professor at the Faculty of Mechanical Engineering, on the topic of regulations and standards on the resistance of materials to the effect of fire.

Third lecture will be given by a **visiting lecturer** from one of the K-FORCE project partners (DTU, AAU, LU, UNIZA, UKiM)





Fourth lecture will be given by **Goran Marčeta**, on current legislation in the Republic of Srpska, on technical requirements and norms on fire safety and other requirements that buildings must satisfy in the event of a fire.

Fifth lecture will be given by **ass. pr. Saša Čvoro**, professor at AGGF, on the topic of active constructive measures for designing objects resistant to the effects of fire, from the architectonic aspect.





Both courses will have the same structure. As part of the course, as mentioned, a lecture series by eminent scientific and professional lecturers will be organized. At the end of the lectures, participants will take a short test, which is not obligatory.

Course participants can get two certificates:

- *Certificate of course attendance*
- *Certificate of passed short test*



*Faculty of Architecture, Civil Engineering and Geodesy has prepared for both LLL courses **Certificates of course attendance** and **Certificate of passed short test** as well as **list of attendance**.*



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CERTIFICATE OF ATTENDANCE

This acknowledges that

NAME SURNAME, TITLE

**HAS SUCCESSFULLY ATTENDED LLL COURSE
"EARTHQUAKE RESISTANT DESIGN"**

Banja Luka, 25.10.2018

Dean
Brankica Milojević, PhD



University of Banja Luka
Faculty of Architecture, Civil Engineering and Geodesy

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CERTIFICATE OF ACHIEVEMENT

This acknowledges that

NAME SURNAME, TITLE

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"EARTHQUAKE RESISTANT DESIGN"**

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LLL COURSE

"CONSTRUCTIVE RULES FOR FIRE SAFETY OF BUILDINGS"

LIST OF ATTENDANCE

Banja Luka, 25.10.2018



University of Banja Luka
Faculty of Architecture, Civil Engineering and Geodesy

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LLL COURSE
"EARTHQUAKE RESISTANT DESIGN"
LIST OF ATTENDANCE

Banja Luka, 25.10.2018



University of Banja Luka
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LLL course “EARTHQUAKE RESISTANT DESIGN”

5 minutes

Dean Welcome Note

10 minutes

**Int. lect.1: Implementation of Eurocodes in BiH –
Bojana Zečević**

10 minutes

**Int. lect.2: Basic Principles of design according
to Eurocode 8 – Radovan Vukomanović**

10 minutes

**Int. lect.3: Seismic maps of BiH – Snježana Cvijić
Amulić**

30-40 minutes

**1st lect: Principles of aseismic design – Prof. Mato
Uljarević**

30 minutes

Discussion

30 minutes

Coffee Break

10-15 minutes

Presentation of stakeholders

15-25 minutes

2nd lect: Guest Lecturer.....

15-25 minutes

3rd lect: Examples of aseismic design – Žarko Lazić

(No. of lectures not yet determined)

15 minutes

Discussion

30 minutes

Test

Awarding of the certificates





LLL course “CONSTRUCTIVE RULES FOR FIRE SAFETY OF BUILDINGS”

5 minutes
10 minutes

Dean Welcome Note

Int. lect.1: Basic concepts of fire on structures and systems for warning and fire extinguishing – Ass prof. Vinko babiĆ

10 minutes

Int. Lect.2:

(No. of lectures not yet determined)

30-40 minutes

1st lect: Directives, standards in the field of fire safety of construction materials – Ass prof. Stevo BorojeviĆ

30 minutes

Discussion

30 minutes

Coffee Break

10-15 minutes

Presentation of stakeholders

15-25 minutes

2nd lect: Guest Lecturer.....

15-25 minutes

3th lect: Current legislation in the Republic of Srpska, on technical requirements and norms on fire safety – Goran Marčeta

15-25 minutes

4th lect: Active constructive measures for designing objects resistant to the effects of fire – Ass prof. Saša Čvoro

15 minutes

Discussion

30 minutes

Test

Awarding of the certificates





*Both courses are planed to be held in period from **15.10.2018.** to **15.12.2018,** when we also expect our guest lectures to be at our University.*

*Both courses are **free of charge.***



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Coordinator



Program partners

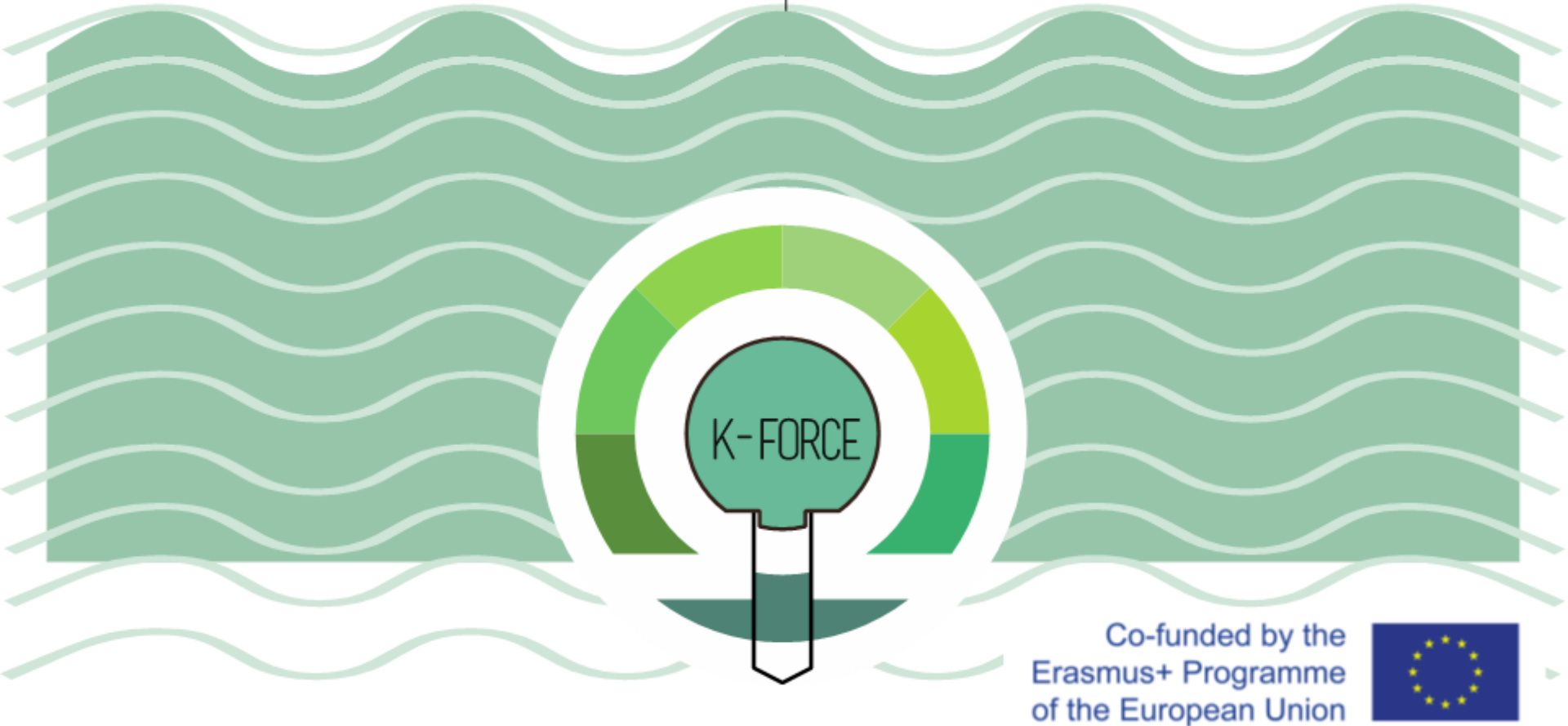


AALBORG UNIVERSITY
DENMARK



Project partners





THANK YOU FOR ATTENTION!

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