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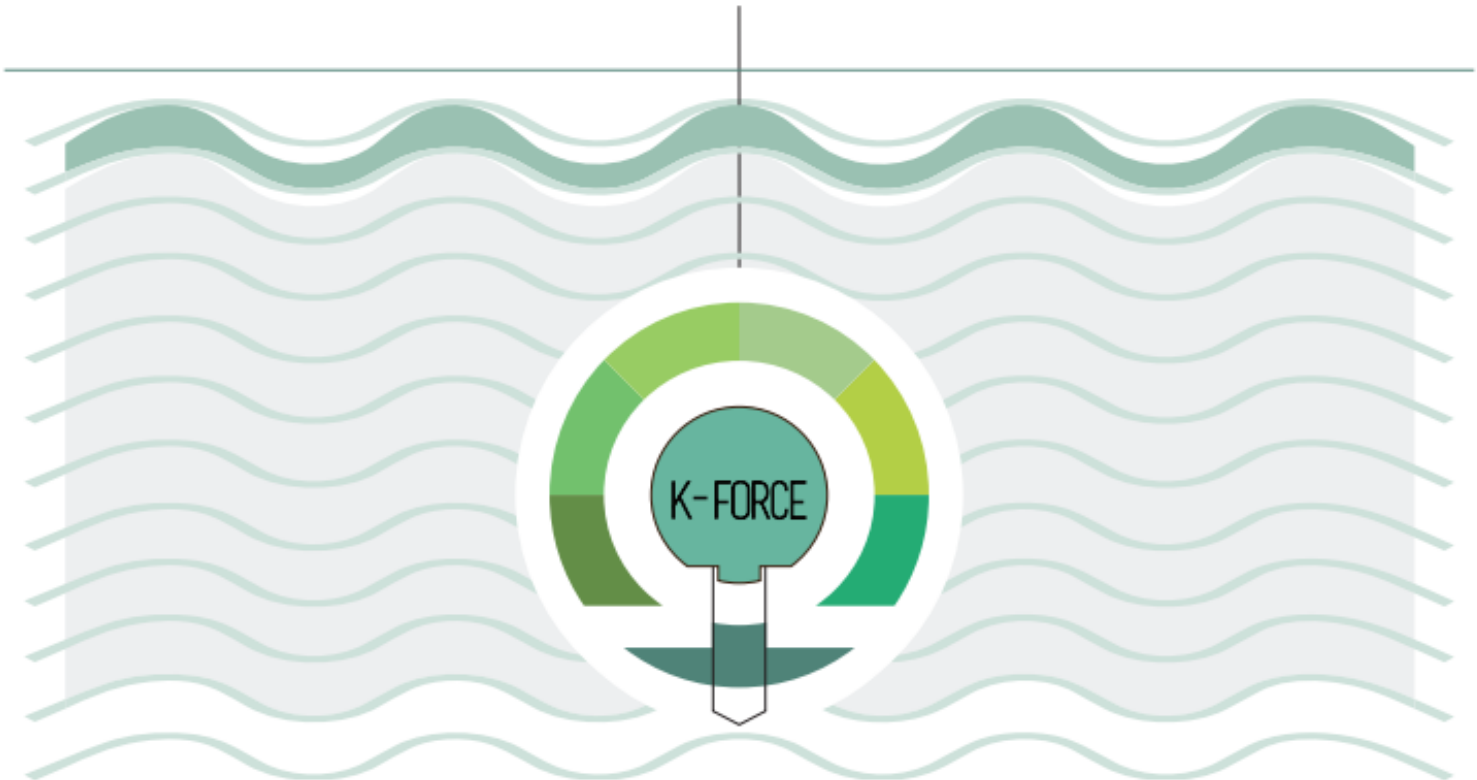
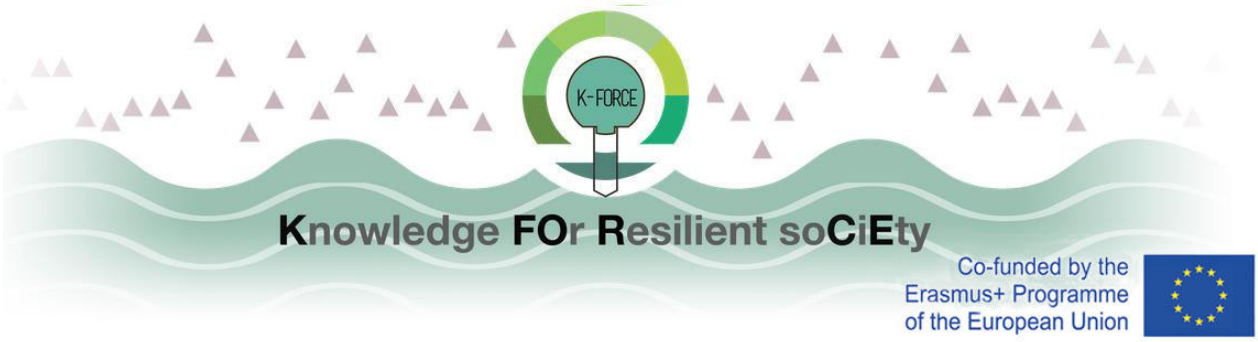
Knowledge FOr Resilient soCiEty

K - FORCE

573942-EPP-1-2016-1-RS-EPPKA2-CBHE-JP





WP6

IMPLEMENTATION OF LLL COURSES

Report on defined LLL outcomes

Deliverable 6.2

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CONTENTS

Introduction

This report is the final outcome of Task 6.2*Report on defined LLL outcomes* of Work package 6 *Implementation of LLL courses*. P1-P6 in cooperation with non-HEI partners P12-P16 discussed and agreed on required LLL outcomes in WBC, according to data obtained through Task 6.1*Report on WBC needs for LLL courses*. Partners P7-P11 reviewed required knowledge, skills and competencies and aligned them with NQF/EQF.

The following WBC HEIs will deliver LLL courses under the K-Force project:

- University of Novi Sad
- Higher Education Technical School of Professional Studies in Novi Sad
- University of Tuzla
- University of Banja Luka
- University of Tirana
- Epoka University

As per the project description, each of the above WBC HEIs will adopt selected material from the newly developed MSc. courses and deliver it to the professionals from the DRM & FSE fields in their respective countries.

To gain understanding and provide an overview of the LLL course materials and the outcomes of these courses a structured set of questions was answered by each of the partners. This report summarises the answers.

1 Questionnaire structure

The basic structure of the questionnaire was as follows:

Q.1 Email-address

Q.2 University for which the questionnaire has been filled in (mandatory question)

Answer: Multiple-choice – select only one option

- University of Novi Sad
- Higher Education Technical School of Professional Studies in Novi Sad
- University of Tuzla
- University of Banja Luka
- University of Tirana
- Epoka University

Q.3 Name of the person filling in the questionnaire (mandatory question)

Answer: An open-text field.

SECTION 2 LLL COURSE 1 – ADOPTED FROM MASTER COURSEprovide information regarding the first of the three LLL courses to be adapted from MSc courses at your institution.

Q.4 Title of LLL course 1 – May be the same or different from thelinked/adapted Master course (mandatory question)

Answer: An open-text field.

Q.5 Linked master programme course ID – Provide official course / reference number of the master course to be adapted as LLL course: (mandatory question)

Answer: An open-text field.

Q.6 Linked master programme course title – Provide official title of the master course to be adapted as LLL course: (mandatory question)

Answer: An open-text field.

Q.7 Linked master programme course annotation and objectives – Provide a short annotation and objectives of the master course to be adapted as LLL course: (mandatory question)

Answer: An open-text field.

Q.8 Linked master programme course topics to be covered – Provide a list of topics of the master course to be adapted as LLL course: (mandatory question)

Answer: An open-text field.

Q.9 Linked master programme ECTS awarded – Provide number of ECTS awarded for the

completion of the master course to be adapted asLLL course: (mandatory question)

Answer: An open-text field.

Q.10 Linked master programme year of study –Provide year of master studies during which thecourse to be adapted as LLL course is taught: (mandatory question)

Answer: An open-text field.

Q.11 Linked master programme course selection – Is the masters programme course to be adopted mandatory or elective: (mandatory question)

Answer: Multiple-choice – select only one option

- Mandatory
- Elective
- Other:

Q.12 What percentage of the content of the Masters course will be adopted in the LLL course? (mandatory question)

Answer: Select on a scale from 0 to 10

0 – 0%

10 – 100%

Q.13 List any topics from the Masters course which will not be covered in the LLL course (if

applicable): (mandatory question)

Answer: An open-text field.

Q.14 How many standard teaching hours will the LLLcourse last: (mandatory question)

Answer: An open-text field.

Q.15 List any prerequisites for the LLL course enrolment / attendance – e.g. BSc, MSc or other diploma, level of knowledge of computer skills, foreign language, years ofexperience, theoretical background etc.: (mandatory question)

Answer: An open-text field.

Q.16 List any specific requirements for the LLL course– e.g. computer equipment, software, labs, literature and / or standards on top of materials provided, etc.: (mandatory question)

Answer: An open-text field.

Q.17 What is the maximum attendants per group foreffective teaching? (mandatory question)

Answer: An open-text field.

Q.18 What course schedule is required for effective content delivery? (mandatory question)

Answer: Multiple-choice – select only one option

- Longer blocks less often (e.g. a week every 12 months)
- Shorter blocks more often (e.g. a day every 2 months)
- No preference
- Other:

Q.19 Indicate the ratio of theoretical vs. practice content of the LLL course (mandatory question)

Answer: Select on a scale from 1 to 10

1 – Entirely practical (e.g. field exercises, physical training, practical design, simulated situations)

10 – Entirely theoretical (e.g. theoretical lessons, self-study, classroom testing, etc.)

Q.20 Indicate the envisaged attendance format of the LLL course (mandatory question)

Answer: Select on a scale from 1 to 10

1 – Electronic only (no attendance)

10 – Classroom only (full attendance)

Q.21 Main outcomes of the LLL course – Provide 3 to 5 outcomes of the LLL course in the following format: increased theoretical knowledgein..., gained understanding of ..., capable of working with ..., etc. (mandatory question)

Answer: An open-text field.

Q.22 Indicate if any of the following topics will be included (mandatory question)

Answer: Checkboxes– select one or more as appropriate

- ☐ National design codes
- ☐ Fire safety engineering
- ☐ Computer modelling
- ☐ Risk assessment
- ☐ Data gathering and analysis
- ☐ Natural disasters
- ☐ Man-made disasters (industrial, etc.)
- ☐ Emergency response
- ☐ Economic risk and vulnerability
- ☐ Disaster preparedness
- ☐ International standards in my field
- ☐ Case studies
- ☐ Technical aspects
- ☐ National legislation
- ☐ Other:

Q.23 Can the LLL course be linked to a national certifcation scheme for certification / recertificationpurposes (even potentially in the future)? (optional question)

Answer: Multiple-choice – select only one option

- Yes
- No

Q.24 If the previous question was answered Yes, please, provide short information on the schemeand how it could be linked with the LLL course: (conditional question)

Answer: An open-text field.

SECTION 3LLL COURSE 2– ADOPTED FROM MASTER COURSEprovide information regarding the second of the three LLL courses to be adapted from MSc courses at your institution.

Q.25– Q.45 for LLL course 2 are the same as Q.4 – Q.24 for LLL course 1

SECTION 4LLL COURSE 3– ADOPTED FROM MASTER COURSEprovide information regarding the third of the three LLL courses to be adapted from MSc courses at your institution.

Q.46 – Q.66for LLL course 3 are the same as Q.4 – Q.24 for LLL course 1

SECTION 5 LLL COURSESOUTCOMES – The purpose of this section was to information on the overall alignment of the adapted courses with the NQF and EQF, as well as their national accreditation for the purposes of awarding ETCS. Finally, the formal outcome of the LLL courses is collected.

Q.67 Which NQF level are the courses associatedwith? (mandatory question)

Answer: An open-text field.

Q.68 Which EQF level are the courses associatedwith? (mandatory question)

Answer: An open-text field.

Q.69 Is there an official way of accrediting the LLL courses so that standard ECTS credits can beawarded? (mandatory question)

Answer: Multiple-choice – select only one option

- Yes
- No

Q.70 If the previous question was answered Yes, please, provide accreditation information – E.g. Law / regulation allowing such accreditation, overview of requirements, professional guarantee,etc. (optional question)

Answer: An open-text field.

Q.71 If the previous question was answered No, please, indicate if and how you will recognize theattendance of LLL at your university (optional question)

Answer: An open-text field.

Q.72 Will you accredit the LLL courses officially on the national level (other than ECTS awardingpurposes)? (mandatory question)

Answer: Multiple-choice – select only one option

- Yes
- No

Q.73 If the previous question was Yes, please, provide accreditation information – E.g. Type of accreditation, accreditation body, law / regulation / professional association rules allowingsuch accreditation, overview of requirements, professional guarantee, etc.

Answer: An open-text field.

Q.74 What will be the formal outcome of the LLL course(mandatory question)

Answer: Checkboxes– select one or more as appropriate

- ☐ Certificate of attendance
- ☐ Certification of passed exam
- ☐ Count of hours attended
- ☐ ECTS credits accountable towards higher / university education
- ☐ CPD (continuing professional development) hours / credits accountable towards existing scheme
- ☐ Partial completion of education / training required for official certification / recertification
- ☐ Full completion of education / training required for official certification / recertification
- ☐ Other

2 Questionnaire results

The following section contains the answers for the questions relating to the LLL course material to be developed and delivered, as well as the outcomes and NQF/EQF alignment.

University in Novi Sad			
Question	**Title of LLL course**		
	Natural disasters and other accidents risk assessment	**Evacuation calculation and modeling**	**Financial resilience to hazards**
Linked master programme course ID	06.ZP512	06.URZP74	06.ZP511
Linked master programme course title	Protection and Rescue Plans	Evacuation calculation and modeling	Financial resilience to hazards
Linked master programme course annotation and objectives	Disaster risk assessment methodology, according to Serbian Law on Emergencies. Natural disaster and natural catastrophe (earthquakes, floods, landslides). Technical-technological accidents and wild fires. Preventive measures. Protective and rescue measures. Protection and Rescue Plan. After the passed examination students will be able to identify and classify risks for inhabitants, vulnerability of people, and to formulate, define and plan protective measures for people rescue under the conditions of natural disasters, catastrophic events and fire.	Students will be able to understand building evacuation processes and apply egress models to simulate movement of people during evacuation. First part of the course is focused on lectures and laboratory exercises. During the second part of the course the students focus on their group assignment, which is presented to colleagues from other groups and professors in the end of course.	Through the combination of theoretical units and practical case studies students will develope knowledge and master techniques and mechanisms that are necessary for building financial resilience to catastrophic events.

University in Novi Sad			
Question	**Title of LLL course**		
	Natural disasters and other accidents risk assessment	**Evacuation calculation and modeling**	**Financial resilience to hazards**
Linked master programme course topics to be covered	Disaster risk assessment methodology, according to Serbian Law on Emergencies. Natural disaster and natural catastrophe (earthquakes, floods, landslides). Technical-technological accidents and wild fires. Preventive measures.	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.	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
Linked master programme ECTS awarded	4 ECTS	3 ECTS	4 ECTS
Linked master programme year of study	First year, winter semester	First year, Summer semestar	4 ECTS
Linked master programme course selection (mandatory / elective / other)	Mandatory	Elective	Elective
What percentage of the content of the Masters course will be adopted in the LLL course	50	50	50

University in Novi Sad			
Question	**Title of LLL course**		
	Natural disasters and other accidents risk assessment	**Evacuation calculation and modeling**	**Financial resilience to hazards**
List any topics from the Masters course which will not be covered in the LLL course (if applicable)	Protective and rescue measures. Protection and Rescue Plan.		
How many standard teaching hours will the LLL course last	28	28	28
List any prerequisites for the LLL course enrolment / attendance:	diploma: BSc in Engineering, Technology, Security	Diploma: BSc in Architecture, Engineering, Technology, Security	Diploma: BSc in Economics, Engineering, Technology, Security
List any specific requirements for the LLL course:	Law on Emergencies, Guidelines for risk assessment	computer equipment, software	National and EU legislation
What is the maximum attendants per group for effective teaching?	30	20	30
What course schedule is required for effective content delivery	Medium blocks (2 to 4 days)	Medium blocks (2 to 4 days)	Medium blocks (2 to 4 days)
Indicate the ratio of theoretical vs. practice content of the LLL course **0 – entirely practical** **10 – entirely theoretical**	5	5	5
Indicate the envisaged attendance format of the LLL course **0 – electronic only** **10 – classroom only**	5	5	5

University in Novi Sad			
Question	**Title of LLL course**		
	Natural disasters and other accidents risk assessment	**Evacuation calculation and modeling**	**Financial resilience to hazards**
Main outcomes of the LLL course	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 measuresengineering as a professional.	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 evacuation plans	Increased theoretical knowledge in risk economics and financing Gained understanding in financial preparedness Capable of calculation of potential financial losses
Indicate if any of the following topics will be included (tick all that apply)	National design codes, Risk assessment, Data gathering and analysis, Natural disasters, Man-made disasters (industrial, etc.), International standards in the field, Case studies, National legislation	National design codes, Computer modelling, Engineering / advanced design approach, Man-made disasters, Emergency response, International standards in the field, Case studies, Technical aspects, National legislation	Risk assessment, Data gathering and analysis, Economic risk and vulerability, Disaster preparedness, Case studies, National legislation
Can the LLL course be linked to a national certification scheme for certification / recertification purposes (even potentially in the future)?	No	No	No
If the previous question was answered Yes, please, provide short information on the scheme and how it could be linked with the LLL course			
Which NQF level are the courses associated with?	NQF 7	NQF 7	NQF 7
Which EQF level are the courses associated with?	EQF 7	EQF 7	EQF 7

University in Novi Sad			
Question	**Title of LLL course**		
	Natural disasters and other accidents risk assessment	**Evacuation calculation and modeling**	**Financial resilience to hazards**
Is there an official way of accrediting the LLL courses so that standard ECTS credits can be awarded?	No	No	No
If the previous question was answered Yes, please, provide accreditation information			
If the previous question was answered No, please, indicate if and how you will recognize the attendance of LLL at your university	Certificate of attendance	Certificate of attendance	Certificate of attendance
Will you accredit the LLL courses officially on the national level (other than ECTS awarding purposes)?	No	No	No
If the previous question was Yes, please, provide accreditation information			
What will be the formal outcome of the LLL course (tick all that apply):	Certificate of attendance, Count of hours attended	Certificate of attendance, Count of hours attended	Certificate of attendance, Count of hours attended

Higher Education Technical School of Professional Studies in Novi Sad			
Question	**Title of LLL course**		
	Risk resilience	**Evacuation modelling**	**Fire and rescue PPE**
Linked master programme course ID	Course codes are M01, M02 and M03	M12	M04
Linked master programme course title	Risk management in protection, Applied methods of modelling the risk, Monitoring and control in protection	Calculation and model of evacuation	Personal protective equipment
Linked master programme course annotation and objectives	Thus structured, the LLL course is seen as a step towards enrolling the master programme in the future by those who have completed it. For those candidates not intending to enrol the master studies, the LLL course provides advanced knowledge in the area of professional engagement.	Improvement of existing evacuation models.	Introduction to PPE used in emergency situations.
Linked master programme course topics to be covered	All topics planned in the curriculum will be covered.	Software modelling of evacuation, and calculating methods.	Equipment necessary in professional response in disasters.
Linked master programme ECTS awarded	10+10+10=30 ECTS	10 ECTS	8 ECTS
Linked master programme year of study	First year	Second year	First year
Linked master programme course selection (mandatory / elective / other)	Mandatory	Elective	Mandatory
What percentage of the content of the Masters course will be adopted in the LLL course	100%	20%	20%

Higher Education Technical School of Professional Studies in Novi Sad			
Question	**Title of LLL course**		
	Risk resilience	**Evacuation modelling**	**Fire and rescue PPE**
List any topics from the Masters course which will not be covered in the LLL course (if applicable)		;	
How many standard teaching hours will the LLL course last	4+3 weekly per course/subject	16	16
List any prerequisites for the LLL course enrolment / attendance:	BSc	BSc, years of experience, and theoretical background.	Years of experience, and theoretical background
List any specific requirements for the LLL course:	computer equipment, software, literature	Computer equipment, labs, literature	Computer equipment, and literature.
What is the maximum attendants per group for effective teaching?	15	15	15
What course schedule is required for effective content delivery	Longerblocks (week or more)	Medium blocks (2 to 4 days)	Medium blocks (2 to 4 days)
Indicate the ratio of theoretical vs. practice content of the LLL course 0 – entirely practical 10 – entirely theoretical	8	5	8
Indicate the envisaged attendance format of the LLL course 0 – electronic only 10 – classroom only	5	5	5

HigherEducationTechnicalSchool of Professional Studies in Novi Sad			
Question	**Title of LLL course**		
	Risk resilience	**Evacuationmodelling**	**Fire and rescue PPE**
Main outcomes of the LLL course	Increasedtheoreticalknowledge in risk resilience, gainedunderstanding of risk and protection in disasters, and capable of workingwithcompanies in thefield of protectionengineering as a professional.	increasedboththeoretical and practicalknowledge in software application, capability of designingevacuationplans	Increasedtheoreticalknowledge in PPE.
Indicate if any of the following topics will be included (tick all that apply)	Computermodelling, Risk assessment, Datagathering and analysis, Naturaldisasters, Man-madedisasters (industrial, etc.), Emergencyresponse, Disasterpreparedness, Casestudies	National design codes, Computermodelling, Engineering / advanced design approach, Risk assessment, Datagathering and analysis, Emergencyresponse, Disasterpreparedness, Casestudies, National legislation	Risk assessment, Naturaldisasters, Man-madedisasters (industrial, etc.), Emergencyresponse, Disasterpreparedness, International standards in thefield, Casestudies, Technicalaspects, National legislation
Can the LLL course be linked to a national certification scheme for certification / recertification purposes (even potentially in the future)?	Yes	No	No
If the previous question was answered Yes, please, provide short information on the scheme and how it could be linked with the LLL course	According to the draft Rules on short programme of higher education from September 2017, such short educational forms will be registered in the Serbian Ministry of Educatrion, Science and Technological Development provided they have the minimum of 30 ECTS.		
Which NQF level are the courses associated with?	NQF 7	NQF 7	NQF 7
Which EQF level are the courses	None	None	None

associated with?			

HigherEducationTechnicalSchool of Professional Studies in Novi Sad			
Question	**Title of LLL course**		
	Risk resilience	**Evacuation modelling**	**Fire and rescue PPE**
Is there an official way of accrediting the LLL courses so that standard ECTS credits can be awarded?	No	No	No
If the previous question was answered Yes, please, provide accreditation information			
If the previous question was answered No, please, indicate if and how you will recognize the attendance of LLL at your university	Certificates on attendance and completion of the LLL courses will be issued.	Certificates on attendance and completion of the LLL courses will be issued.	Certificates on attendance and completion of the LLL courses will be issued.
Will you accredit the LLL courses officially on the national level (other than ECTS awarding purposes)?	No	No	No
If the previous question was Yes, please, provide accreditation information			
What will be the formal outcome of the LLL course (tick all that apply):	Certificate of attendance, Certification of passedexam, Count of hoursattended ECTS creditscanberecognizedinternallyifmasterstudies are enrolled in case of	Certificate of attendance, Certification of passed exam, Count of hours attended	Certificate of attendance, Certification of passed exam, Count of hours attended,

	thefirstcourse, Risk resilience		

University Banja Luka

Question	Title of LLL course		
	Constructive Rules for Fire safety of Building	**Earthquake resistant design**	**-**
Linked master programme course ID	GMZP	APG	
Linked master programme course title	Constructive Rules for Fire safety of Building	Aseismic Design and Construction	
Linked master programme course annotation and objectives	The aim is for the student to acquire basic knowledge about construction measures of fire protection and their application in the design. Students master the basic concepts of fire, its origin and consequences. In particular, the student mastered the necessary knowledge of construction measures of fire protection and their application.	Introduction to problems in earthquake engineering and seismic analysis of structures, as well as training for defining (selection) of input parameters and analysis of constructions response in the effects of earthquake.	
Linked master programme course topics to be covered	Common fires. Fire sectors. Fire resistance of construction structures. Classification and typology of buildings from the aspect of fire safety. Current legislation in the field of fire protection. Fire resistance of building materials and constructions. Regulation on Construction Products 305/2011/EC. Testing methods for the building materials fire resistance according to European standards. Fire protection preventive construction measures. Evacuation from areas affected by fire. Fire protection systems in buildings.	Introduction to Earthquake Engineering. Earthquakes: phenomenon hypocenter and epicenter, events on the Earth's surface. Earthquake intensity scale. Principles of seismic analysis. Basic principles of design and construction of buildings in seismically active areas. The choice of the structural system. Principles of design of building structures to the effects of the earthquake. Chapter overview of current seismic regulations.	
Linked master programme ECTS awarded	4	4	
Linked master programme year of study	1st	1st	

University Banja Luka			
Question	**Title of LLL course**		
	Constructive Rules for Fire safety of Building	**Earthquake resistant design**	**-**
Linked master programme course selection (mandatory / elective / other)	Elective	Mandatory	
What percentage of the content of the Masters course will be adopted in the LLL course	50%	50%	
List any topics from the Masters course which will not be covered in the LLL course (if applicable)	Physico-chemical basis of the burning process. Definition and conditions for burning. Burning materials. Causes of fire. Combustion of fuel gases, liquids and solid materials. Products of the uncontrolled combustion process. Evacuation time calculation. Markings and evacuation plan. Smoke extraction. Regular maintenance importance of of the building and systems for fire protection. Qualitativ and quantitative assessment of the fire risk. Analysis of existing and planned facilities - project documentation, analysis of built objects and examination of applied conceptual solutions from the aspect of fire protection.	Fundamentals of passive and active control of the structure. Analysis of the input data. Specific problems in steel, reinforced concrete and masonry structures in buildings. Modeling of structures in seismic design. Current computer programs in the field of earthquake engineering.	
How many standard teaching hours will the LLL course last	10	10	
List any prerequisites for the LLL course enrolment / attendance:	240ECTS and more	240 ECTS and more	

List any specific requirements for the LLL course:	literature and standards	literature and standards	

University Banja Luka

Question	**Title of LLL course**		
	Constructive Rules for Fire safety of Building	**Earthquake resistant design**	**-**
What is the maximum attendants per group for effective teaching?	35	35	
What course schedule is required for effective content delivery	Medium blocks (2 to 4 days)	Medium blocks (2 to 4 days)	
Indicate the ratio of theoretical vs. practice content of the LLL course 0 – entirely practical 10 – entirely theoretical	5	5	
Indicate the envisaged attendance format of the LLL course 0 – electronic only 10 – classroom only	10	10	
Main outcomes of the LLL course	Candidates master the basic concepts of fire, its origin and consequences. In particular, the candidates master the necessary knowledge of construction measures of fire protection and their application.	Identification and analysis of problems in seismic structural analysis. Problem solving in seismic structural analysis.	
Indicate if any of the following topics will be included (tick all that apply)	National design codes, Engineering / advanced design approach, Man-ma-de disasters (industrial, etc.), Emer-gency response, International stan-dards in the field, Case studies, Technical aspects, National legislation	National design codes, Engineering / advanced design approach, Natural disasters, International standards in the field, Case studies, Technical aspects, National legislation	

Can the LLL course be linked to a national certification scheme for certification / recertification purposes (even potentially in the future)?	No	No	

University Banja Luka			
Question	**Title of LLL course**		
	Constructive Rules for Fire safety of Building	**Earthquake resistant design**	**-**
If the previous question was answered Yes, please, provide short information on the scheme and how it could be linked with the LLL course	-	-	
Which NQF level are the courses associated with?	level 7	level 7	
Which EQF level are the courses associated with?	level 7	level 7	
Is there an official way of accrediting the LLL courses so that standard ECTS credits can be awarded?	No	No	
If the previous question was answered Yes, please, provide accreditation information			
If the previous question was answered No, please, indicate if and how you will recognize the attendance of LLL at your university	the certificate will be issued	the certificate will be issued	
Will you accredit the LLL courses officially on the national level (other than ECTS awarding purposes)?	No	No	

If the previous question was Yes, please, provide accreditation information			
What will be the formal outcome of the LLL course (tick all that apply):	Certificate of attendance, Certification of passed exam	Certificate of attendance, Certification of passed exam	

University of Tirana			
Question	**Title of LLL course**		
	Disaster Risk Modeling	**Risk Assessment**	not applicable (N/A)
Linked master programme course ID	Master of Science in Risk Management	Master of Science in Risk Management	(N/A)
Linked master programme course title	Risk Modeling in Practice	1. Foundation of Risk Assessment & Decision Making, 2. Disaster Risk Management	(N/A)
Linked master programme course annotation and objectives	This subject will offer a comprehensive, in–depth, and practical guide that aims to help business risk managers, modelling analysts and general management to understand, conduct and use quantitative risk assessment and uncertainty modelling in their own situations	The aim of the course is that the students shall gain fundamental knowledge and understanding of risk analysis, risk evaluation and risk management, with applications in a broad array of areas including safety, health, environment and society.	(N/A)
Linked master programme course topics to be covered	Approaches to Risk Assessment and Quantification; The Process of Modeling; Full Integrated Risk Modelling: Decision-Support Benefits; Simulation in Practice; Using Excel/VBA for Simulation Modelling;	Risk: principles and applications, and the dynamic risk assessment process; Risk analysis; Risk evaluation and risk treatment; Different ways of evaluating risk;	(N/A)
Linked master programme ECTS awarded	5	6	(N/A)
Linked master programme year of study	Second year of master studies	First year of Master Studies	(N/A)

Linked master programme course selection (mandatory / elective / other)	Mandatory	Mandatory	(N/A)
What percentage of the content of the Masters course will be adopted in the LLL course	50%	50%	(N/A)

University of Tirana

Question	**Title of LLL course**		
	Disaster Risk Modeling	**Risk Assessment**	not applicable (N/A)
List any topics from the Masters course which will not be covered in the LLL course (if applicable)	Organisational Challenges Relating to Risk Modelling; Financial Statement Modeling; Single and multi period Asset Allocation Models;	Detailed treatment of the risk concept; General risk theory; Risk analysis methods within safety, health, environment and society; Basics of uncertainty and sensitivity; Concepts of insurance and reinsurance in managing the risk of environmental hazards; Emergency planning and legislation;	(N/A)
How many standard teaching hours will the LLL course last	5 days * 2 hour/day = 10 hours in total	5 days * 2 hours/day = 10 hours in total	(N/A)
List any prerequisites for the LLL course enrolment / attendance:	BSc, Good knowledge of Microsoft package,	Bsc, Good knowledge of Microsoft package, Good knowledge of English	(N/A)
List any specific requirements for the LLL course:	Computer equipment, labs, software	Computer equipment, labs, literature	(N/A)
What is the maximum attendants per group for effective teaching?	30	30	(N/A)
What course schedule is required for effective content delivery	5 days	5 days	(N/A)
Indicate the ratio of theoretical vs. practice content of the LLL course 0 – entirely practical	4	4	(N/A)

10 – entirely theoretical			
Indicate the envisaged attendance format of the LLL course 0 – electronic only 10 – classroom only	10	10	(N/A)

University of Tirana

Question	**Title of LLL course**		
	Disaster Risk Modeling	**Risk Assessment**	not applicable (N/A)
Main outcomes of the LLL course	Gained understanding of basics of finite volume modelling, Introduce in CFD tools, increase of theoretical knowledge with possible application in modelling	Computer modelling, Risk assessment, Data gathering and analysis, Natural disasters, Economic risk and vulerability	(N/A)
Indicate if any of the following topics will be included (tick all that apply)	Computer modelling, Data gathering and analysis, Natural disasters, Case studies	Computer modelling, Risk assessment, Data gathering and analysis, Natural disasters, Economic risk and vulerability	(N/A)
Can the LLL course be linked to a national certification scheme for certification / recertification purposes (even potentially in the future)?	No	No	(N/A)
If the previous question was answered Yes, please, provide short information on the scheme and how it could be linked with the LLL course			(N/A)

Which NQF level are the courses associated with?	6	6	(N/A)
Which EQF level are the courses associated with?	6	6	(N/A)

University of Tirana			
Question	**Title of LLL course**		
	Disaster Risk Modeling	**Risk Assessment**	not applicable (N/A)
Is there an official way of accrediting the LLL courses so that standard ECTS credits can be awarded?	Yes	Yes	
If the previous question was answered Yes, please, provide accreditation information	Law no. 80/2015 for higher education and scientific research in HEIs in the Republic of Albania, article 81	Law no. 80/2015 for higher education and scientific research in HEIs in the Republic of Albania, article 81	
If the previous question was answered No, please, indicate if and how you will recognize the attendance of LLL at your university			
Will you accredit the LLL courses officially on the national level (other than ECTS awarding purposes)?	No	No	
If the previous question was Yes, please, provide accreditation information			

What will be the formal outcome of the LLL course (tick all that apply):	Certificate of attendance, Count of hours attended	Certificate of attendance, Count of hours attended	

Epoka University			
Question	**Title of LLL course**		
	Disaster Risk Management	Fire Engineering	Fire Evaluation Modelling
Linked master programme course ID	Professional master in Disaster Risk Management and Fire Safety Engineering	Professional master in Disaster Risk Management and Fire Safety Engineering	Professional master in Disaster Risk Management and Fire Safety Engineering
Linked master programme course title	Risk Analysis in Decision-Making Process	Structural Fire Engineering, Earthquake Disaster Mitigation	Fire Evaluation Modelling
Linked master programme course annotation and objectives	The course aims to demonstrate the nature, typology and dynamics of risk & risk management, apply them to strategic and tactical problems and illustrate their tools and techniques through case studies. Through this course students shall gain fundamental knowledge and understanding of risk analysis, risk evaluation and risk management, with applications in a broad array of areas including safety, health, environment and society. The course also aims that the students shall gain the ability to utilize tools and techniques for risk identification, analysis, evaluation and response and how they can support risk-related decisions.define and plan protective measures for people rescue under the conditions of natural disasters, catastrophic events and fire.	Demonstrate an understanding of building construction as it relates to fire safety, building codes, fire prevention, code inspection etc. Classify major types of building construction. Analyze the hazards associated with the various types of building construction. Explain the different loads and stresses that are placed on a building and their interrelationships. Identify the principle structural components of buildings and demonstrate an understanding of the functions of each. Differentiate between fire resistance and flame spread and describe the testing procedures used to establish ratings for each. Classify occupancy designations of the building code. Identify the indicators of potential structural failure.other groups and professors in the end of course.	Provide a review of the mechanisms whereby people are affected by exposure to toxic effluent and heat in fires, including toxicology of fire effluent components, common fire scenarios to building occupants, examination of individual incidents through fire investigation, standard small and large scale experimental approaches and standards. In addition the course aims to review the formulation and application of evacuation models.

Epoka University			
Question	**Title of LLL course**		
	Disaster Risk Management	Fire Engineering	Fire Evacuation Modelling
Linked master programme course topics to be covered	Putting risk into perspective: Risk attitudes and impact on decision-making Background to risk and uncertainty Risk management system Tools and techniques of risk management Risk identification tools	Principles of Construction, Building Construction, Principles of Fire Resistance, Fire Behavior vs. Building Construction, Wood Construction, Earthquakes and Earthquake Hazard Analysis, Review of Seismic Design Concepts and Building Code Requirements, Disaster Preparedness; Seismic Vulnerability & Risk Assessment; (Cases from different countries)	Human behavior in fire theories: decision-making, response to alarm systems, information, and environmental cues, Characteristics of people movement through smoke, Evacuation time analysis: Components of evacuation time, Transitions, Queues, Design of evacuation alarms, Panic Social Impacts; Fire safety Education
Linked master programme ECTS awarded	7.5	7.5	7.5
Linked master programme year of study	spring semester, 2018-2019 academic year year	winter semester, 2018-2019 academic year year	spring semester, 2018-2019 academic year year
Linked master programme course selection (mandatory / elective / other)	Mandatory	Mandatory	Mandatory
What percentage of the content of the Masters course will be adopted in the LLL course	50%	100%	50%

Epoka University			
Question	**Title of LLL course**		
	Disaster Risk Management	Fire Engineering	Fire Evaluation Modelling
List any topics from the Masters course which will not be covered in the LLL course (if applicable)	Risk analysis tools: Quantitative and qualitative analysis Utility and risk attitude Risks related to projects constraints- Time, Cost and QualitySensitivity, breakeven and scenario analysis Risk analysis using Monte Carlo simulation Contracts and risks	Concrete Construction High Rise Construction Collapse Non-Combustible materials	General concepts of evacuation modelling part Review of evacuation models Use of evacuation models: Case studies; Uncertainties, Model defaults; Performance-based design concepts
How many standard teaching hours will the LLL course last	5 days * 2 hour/day = 10 hours in total	5 days * 2 hours/day = 10 hours in total	5 days * 2 hours/day = 10 hours in total
List any prerequisites for the LLL course enrolment / attendance:	BSc, Good knowledge of Microsoft package	BSc	BSc
List any specific requirements for the LLL course:	Computer equipment, labs, software	computer equipment, software, labs, literature	NA
What is the maximum attendants per group for effective teaching?	30	30	30
What course schedule is required for effective content delivery	5 days	5 days	5 days
Indicate the ratio of theoretical vs. practice content of the LLL course 0 – entirely practical 10 – entirely theoretical	5	5	5
Indicate the envisaged attendance format of the LLL course 0 – electronic only 10 – classroom only	10	10	5

Epoka University			
Question	**Title of LLL course**		
	Disaster Risk Management	Fire Engineering	Fire Evaluation Modelling
Main outcomes of the LLL course	To be able to describe the scientific foundation for risk management, ´To be able to describe different perspectives of the concept of risk and be aware of the implications of adopting the different perspectives in a risk management context.To be able to describe methods for risk analysis, evaluation and management, their areas of applicability, especially in the area of safety, health, environment and society.To be able to describe different ways of presenting risk, their limitations and strengths and how they can be applied to evaluate risks.To be able to describe different types of uncertainty and how they can be addressed and handled in a risk analysis and evaluation context.	To adopt the Principles of Construction ôTo learn the Principles of fire safety, To understand the Behavior of materials under the effect of fire , To develop studies, projects related to the improvement of fire safe structures	Review trends in human behavior and factors which affect the behavior of people in fire situations.. To create interest in fire safety risk management. To present the range of available preparedness and mitigation measures, consider their appropriateness, opportunities, limitations of implementation in the regional context
Indicate if any of the following topics will be included (tick all that apply)	Computer modelling, Risk assessment, Case studies, Technical aspects, National legislation	National design codes, Engineering / advanced design approach, Case studies, Technical aspects, National legislation aspects, National legislation	Computer modelling, Engineering / advanced design approach, Data gathering and analysis, Emergency response, Case studies, Technical aspects
Can the LLL course be linked to a national certification scheme for certification / recertification purposes (even potentially in the future)?	No	No	No

Epoka University			
Question	**Title of LLL course**		
	Disaster Risk Management	Fire Engineering	Fire Evaluation Modelling
If the previous question was answered Yes, please, provide short information on the scheme and how it could be linked with the LLL course	-	-	-
Which NQF level are the courses associated with?	6	6	6
Which EQF level are the courses associated with?	6	6	6
Is there an official way of accrediting the LLL courses so that standard ECTS credits can be awarded?	Yes	Yes	Yes
If the previous question was answered Yes, please, provide accreditation information			
If the previous question was answered No, please, indicate if and how you will recognize the attendance of LLL at your university	Law no. 80/2015 for higher education and scientific research in HEIs in the Republic of Albania, article 81	Law no. 80/2015 for higher education and scientific research in HEIs in the Republic of Albania, article 81	Law no. 80/2015 for higher education and scientific research in HEIs in the Republic of Albania, article 81
Will you accredit the LLL courses officially on the national level (other than ECTS awarding purposes)?	No	No	No
If the previous question was Yes, please, provide accreditation information			
What will be the formal outcome of the LLL course (tick all that apply):	Certificate of attendance, Count of hours attended	Certificate of attendance, Count of hours attended	Certificate of attendance, Count of hours attended

University of Tuzla			
Question	**Title of LLL course**		
	Computer Explosion Modeling for Improvement preventive protection	**Floods and Soil Contamination**	**Assessment of damaged civil engineering structures**
Linked master programme course ID	Fire Safety Engineering	Geotechnical hazards, Community resilience to hazards	Assessment of damaged civil engineering structures
Linked master programme course title	Fire Safety Engineering	Geotechnical hazards, Community resilience to hazards	Assessment of damaged civil engineering structures
Linked master programme course annotation and objectives	Introduction in finite volume modelling, tools and basics of modelling, CFD simulations	Basics of geotechnics, foods as natural disasters, floods contaminants	Introduction to up-to-date methods for assessment of damaged civil engineering structures
Linked master programme course topics to be covered	Fire and explosion modelling, CFD Simulations	Exceptional geotechnical measures for natural disasters; Water as a risk in geotechnics; Risk evaluation	Loads and structural responses (static and dynamic). Sources of hazards. Risk analysis. Failures and collapse in civil engineering. Assessment of damages (methodology, testing methods, equipment, applicability).
Linked master programme ECTS awarded	7	8; 5	8
Linked master programme year of study	2	1; 2	1
Linked master programme course selection (mandatory / elective / other)	Mandatory	Mandatory	Mandatory
What percentage of the content of the Masters course will be adopted in the LLL course	30%	30%	40%

University of Tuzla			
Question	**Title of LLL course**		
	Computer Explosion Modeling for Improvement preventive protection	**Floods and Soil Contamination**	**Assessment of damaged civil engineering structures**
List any topics from the Masters course which will not be covered in the LLL course (if applicable)	Assessment of damaged civil engineering structures	Financial risk, Landslides, The mechanical properties of soil and rock Alteration processes in rock as a hazard	
How many standard teaching hours will the LLL course last	6	6	6
List any prerequisites for the LLL course enrolment / attendance:	BSc diploma, computer skills, theoretical background	BSc diploma, theoretical background	BSc diploma, theoretical background, computer and measurements skills
List any specific requirements for the LLL course:	Literature, CFD software	Literature	Literature
What is the maximum attendants per group for effective teaching?	20	30	20
What course schedule is required for effective content delivery	Short blocks (1 or 2 days)	Short blocks (1 or 2 days)	Short blocks (1 or 2 days)
Indicate the ratio of theoretical vs. practice content of the LLL course 0 – entirely practical 10 – entirely theoretical	6	4	5
Indicate the envisaged attendance format of the LLL course 0 – electronic only 10 – classroom only	8	9	8

University of Tuzla			
Question	**Title of LLL course**		
	Computer Explosion Modeling for Improvement preventive protection	**Floods and Soil Contamination**	**Assessment of damaged civil engineering structures**
Main outcomes of the LLL course	Gained understanding of basics of finite volume modelling, Introduce in CFD tools, increase of theoretical knowledge with possible application in modelling	Increased theoretical knowledge in floods risk, risk of soil contaminations from heavy metals after the flood	Increased theoretical knowledge in assessment of damages on civil engineering structures, Capable of measuring of damages in construction elements
Indicate if any of the following topics will be included (tick all that apply)	Computer modelling, Engineering / advanced design approach, Risk assessment, Data gathering and analysis, Man-made disasters (industrial, etc.), Case studies	Engineering / advanced design approach, Risk assessment, Data gathering and analysis, Natural disasters, Case studies, Technical aspects	Engineering / advanced design approach, Risk assessment, Data gathering and analysis, Disaster preparedness, Technical aspects
Can the LLL course be linked to a national certification scheme for certification / recertification purposes (even potentially in the future)?	No	No	No
If the previous question was answered Yes, please, provide short information on the scheme and how it could be linked with the LLL course			
Which NQF level are the courses associated with?	There is no NQF in Bosnia and Herzegovina.	There is no NQF in Bosnia and Herzegovina.	There is no NQF in Bosnia and Herzegovina.
Which EQF level are the courses associated with?	There is no NQF in Bosnia and Herzegovina.	There is no NQF in Bosnia and Herzegovina.	There is no NQF in Bosnia and Herzegovina.

University of Tuzla			
Question	**Title of LLL course**		
	Computer Explosion Modeling for Improvement preventive protection	**Floods and Soil Contamination**	**Assessment of damaged civil engineering structures**
Is there an official way of accrediting the LLL courses so that standard ECTS credits can be awarded?	No	No	No
If the previous question was answered Yes, please, provide accreditation information			
If the previous question was answered No, please, indicate if and how you will recognize the attendance of LLL at your university	All participants will receive a Certificate of Completed Course, which will be recognized within the K-FORCE consortium, and even more widely	All participants will receive a Certificate of Completed Course, which will be recognized within the K-FORCE consortium, and even more widely	All participants will receive a Certificate of Completed Course, which will be recognized within the K-FORCE consortium, and even more widely.
Will you accredit the LLL courses officially on the national level (other than ECTS awarding purposes)?	No	No	No
If the previous question was Yes, please, provide accreditation information			
What will be the formal outcome of the LLL course (tick all that apply):	Certificate of attendance	Certificate of attendance	Certificate of attendance