







REPORT ON IMPLEMENTED SECOND TRAINING FOR CITIZENS AND PUBLIC SECTOR

Project number: 573806-EPP-1-2016-1-RS-EPPKA2-CBHE-JP

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	management in Western Balkan countries	
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List of abbreviations

EU	European Union
HEI	Higher Education Institution
KPA	Academy of Criminalistics and Police Studies
NatRisk	Development of master curricula for natural disasters risk management in
	Western Balkan countries
NDRM	Natural Disasters Risk Management
QAC	Quality Assurance Committee
TCASU	Technical College of Applied Sciences Urosevac with temporary seat in Leposavic
UBL	University of Banja Luka
UNI	University of Nis
UNID	University of Defence in Belgrade
UNSA	University of Sarajevo
UPKM	University of Pristina in Kosovska Mitrovica
WB	Western Balkan
WP	Work package





1 Introduction

Report on implemented second training for citizens and public sector summarizes information regarding realized second training for citizens and public sector or in general professionals from civil sector which is one of the target groups organized by Western Balkan (WB) Higher Education Institutions (HEIs) in the framework of WP4 "Implementation of developed master curricula and trainings" and activity A4.4 "Implementation of trainings for citizens and public sector" of the Erasmus+ Capacity Building in the Field of Higher Education project "Development of master curricula for natural disasters risk management in Western Balkan countries" (NatRisk).

The most of WB partner HEIs adopted EACEA recommendation to organize multi-day trainings. Material such as handbooks, promotional leaflets, plans, agendas and presentation were designed and printed on time and also delivered to the training's participants. Report on development of training's content corresponding educational materials and selection of teaching staff summarized information regarding printed material, topics and criteria for the selection of teaching staff who implemented trainings. For the purpose of successful organization of trainings four handbooks in mother tongue were written and also translated into English and checked by the Quality Assurance Committee (QAC) team, plans for trainings and also description were written and sent to the possible participants via post or e-mail, certificates as a proof of attendance to these trainings were designed and printed. Promotional activities at all WB HEIs were organized in line with the dissemination strategy presented in the Dissemination plan developed under WP6 Dissemination. Responsible persons from different institutions in the field of natural disasters risk management were contacted.

Seven trainings were organised by WB project partners i.e.

- > 7-8 February 2019 University of Sarajevo (UNSA),
- > 18-19 April 2019 University of Nis (UNI),
- 13-14 May 2019 Technical College of Applied Sciences Urosevac with temporary seat in Leposavic (TCASU),
- > 15-16 May 2018 Academy of Criminalistics and Police Studies (KPA),
- > 22-23 May 2019 University of Pristina in Kosovska Mitrovica (UPKM),
- > 30 May 2019 University of Defence (UNID),
- > 18 June 2019 University of Banja Luka (UBL).

Self-evaluation reports of trainings for citizens and public sector were analyzed at the sixth QAC meeting on 4th September 2019 with the conclusion that the trainings were very good or excellent evaluated.

All presented materials, agendas, evaluation and participation lists, training reports and photos are freely available at the NatRisk website (<u>www.natrisk.ni.ac.rs</u>).





2 Implemented trainings

The first training was held at the University of Sarajevo, Faculty of Civil Engineering (UNSA) from 7 to 8 February 2019. The training was chaired by Prof. Emina Hadžić. The objective was to introduce to participants the most relevant issues of natural disasters in Bosnia and Herzegovina and how to prevent them.

The participants were informed about the following topics: natural disasters in Bosnia and Herzegovina, management in natural disasters, spatial planning and natural disasters, earthquakes, landslides, droughts, flood protection in urban areas.



The second training was held at the University of Nis, Faculty of Civil Engineering and Architecture (UNI), on the 18th and 19th of April 2019. The training was chaired by Assist. Prof. Milan Gocic. The objective was to introduce to participants the most relevant issues of natural disasters in Serbia such as drought, flood, earthquake, landslides and how to prevent them.







The third training was organized by the Technical College of Applied Sciences Urosevac with temporary seat in Leposavic (TCASU) from 13 to 14 May 2019. The participants of the training were introduced with the types of natural disasters as well as the causes of their occurrence. Special attention was given to natural disasters that most often affect Kosovo^{*}. In addition, the participants were introduced with direct and indirect consequences occurred due to natural disasters. During the training there was a discussion regarding the modern methodology used for natural disaster risk assessment and risk management.

Participants were introduced with the following:

- > the definition of natural disasters and the types of disasters,
- > the types of natural disasters that most often affect for Kosovo* area,
- how to behave during and after the disaster occurs,
- is it possible to predict natural disaster and what are the prevention measures that must be undertaken to mitigate the consequences,
- how to mitigate the consequences of natural disasters,
- actions in emergencies.





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



The fourth training was held at the Academy of Criminalistics and Police Studies (KPA) from 15 to 16 May 2018. The participants of the training were introduced to the natural disasters, their causes, as well as their direct and indirect consequences, with particular reference to the natural disasters that most often affect the Republic of Serbia. Special attention was paid to the contemporary methodology of natural disaster risk assessment and management in terms of measures and activities that should be undertaken with the aim of preventing and mitigating the effects of natural disasters.

The main objectives of the training were successfully aimed at raising public awareness of the real danger of natural disasters and their consequences, understanding the importance of the role of society and the individual in preventing and mitigating the consequences of natural disasters, and getting acquainted with the importance and significance of building a culture of long-term natural disaster risk management through defining normative-legal framework and the establishment of an integrated, functional and efficient system of responsible institutions and participants.



Development of master curricula for natural disasters risk management in Western Balkan countries (573806-EPP-1-2016-1-RS-EPPKA2-CBHE-JP)





The fifth training was held at the University of Pristina in Kosovska Mitrovica (UPKM), on the 22nd and 23rd of May 2019. The training was chaired by Assist. Prof. Jelena Djokic aiming to introduce to participants the most relevant issues of natural disasters.





Development of master curricula for natural disasters risk management in Western Balkan countries (573806-EPP-1-2016-1-RS-EPPKA2-CBHE-JP)



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



The sixth training was held at the University of Defence (UNID) on 30 May 2019. The objectives were to introduce to participants the most relevant issues of natural disasters in Serbia. Also, participants were informed about the skills they need to develop for adequate reactions in such situations in order to protect and save people, material and other goods endangered by epidemics and large-scale fires.





Development of master curricula for natural disasters risk management in Western Balkan countries (573806-EPP-1-2016-1-RS-EPPKA2-CBHE-JP)



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



The seventh training was held at the University of Banja Luka (UBL) on 18 June 2019 with the participation of students, professors, civil protection employees, law enforcement and officers. The main objectives of the training were aimed at raising public awareness of the danger of natural disasters and their consequences, understanding the importance of the role of society and the individual in preventing the consequences of natural disasters.



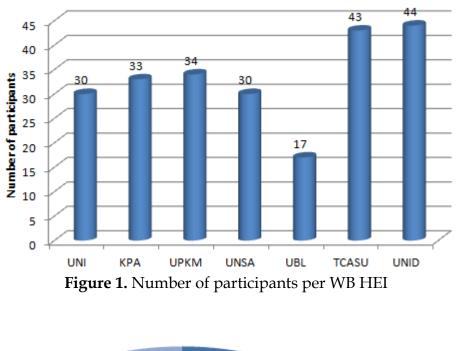




3 Statistics on implemented trainings

This section aims to present statistical data related to the first implemented trainings for citizens and public sector organized by WB partner HEIs. During the trainings, 231 participants or 21 participants more than planned in project proposal were trained (Figures 1 and 2) from 103 different institutions in the field of natural disasters risk management (Figure 3). The large number of involved stakeholders suggests that the topic of trainings is of great importance for them and the trainings can be sustainable after the project funding.

The selection criteria for the participants were: experience in the field of natural disasters risk management (NDRM), availability for participation in future project activities (promotion, providing students' positions) and institution's activity in the field of NDRM.



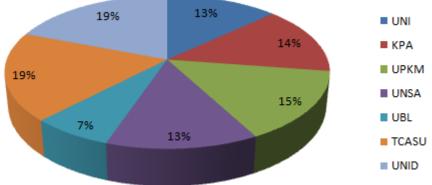


Figure 2. Percentage of trained persons per WB HEI





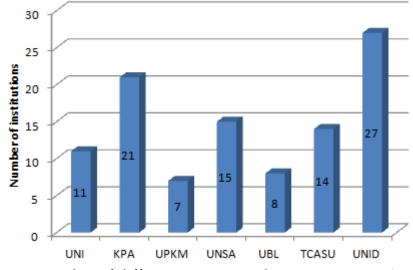
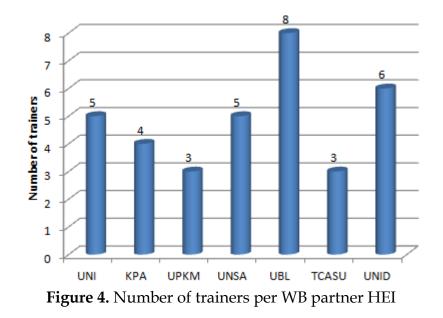


Figure 3. Number of different participated institutions per WB HEI

For the purpose of successful organization of trainings, 34 trainers were selected (Figure 4) that represents capability of WB HEIs to organize similar activities and also more important the potential for sustainability after the end of project funding. The trainers prepared presentations that can be downloaded freely from the NatRisk website.



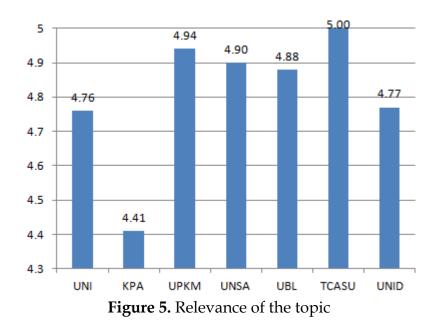
After organized trainings, WB HEIs prepared self-evaluation report of training for citizens and public sector according to the received evaluation lists. Evaluation list for self-evaluation of trainings contained three groups of questions classified as 1) general organisation of the training (11 questions), 2) general participant expectations (7 questions) and 3) evaluation of trainer (6 questions). Results obtained from the following questions will be summarized here:

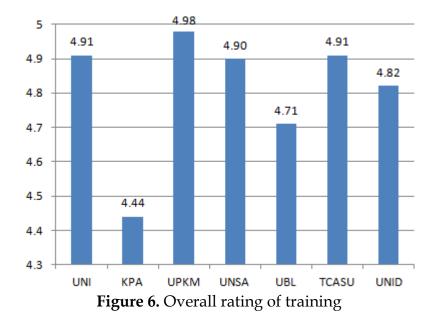
- ➤ relevance of the topic (Figure 5),
- overall rating of training (Figure 6),
- > overall impression (Figure 7),





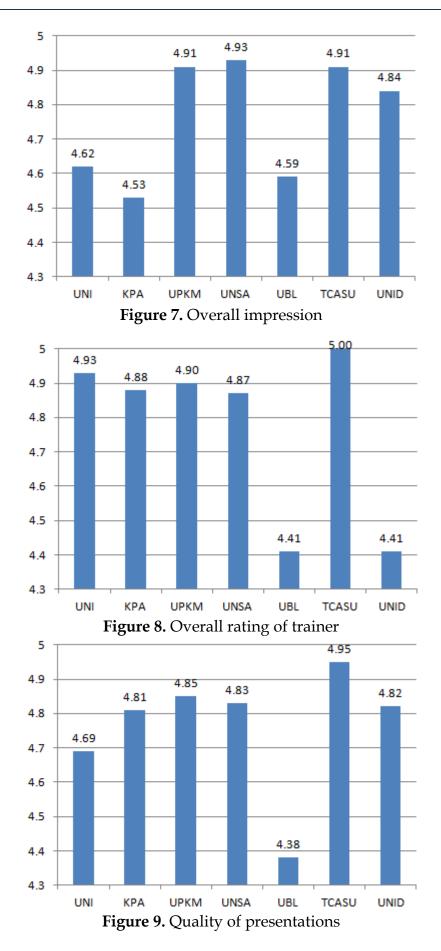
- overall rating of trainer (Figure 8),
- > quality of presentations (Figure 9).















The general opinion is that the trainings were excellent organised. Participants agreed in total that the trainings can help them in future and that the topic is relevant. The quality of presentations and prepared material were evaluated with high marks.

It's a general opinion that participants' expectations were met, with only practical exercises rated somewhere lower than other fields.





4 Training description

- > Academy of criminalistic and police studies, Belgrade
- > Technical College of Applied Sciences Urosevac with temporary seat in Leposavic
- University of Banja Luka
- University of Nis
- University of Defence
- University of Sarajevo
- > University of Pristina in Kosovska Mitrovica





6

ProgrammeTitle	Natural Disaster Risk Management
Training description	The participants of the training will be introduced to the natural disasters, their causes, as well as their direct and indirect consequences, with particular reference to the natural disasters that most often affect the Republic of Serbia. Special attention will be paid to the contemporary methodology of natural disaster risk assessment and management in terms of measures and activities that should be undertaken with the aim of preventing and mitigating the effects of natural disasters. The training will also be dedicated to emergency procedures in case of a natural disaster event, the normative-legal framework for the engagement of subjects of the protection and rescue system, responsible institutions and the role of the individual - citizen, as well as short-term and long-term post-disaster measures and activities.
Objectives and outcomes of training	The main objectives of the training are aimed at raising public awareness of the real danger of natural disasters and their consequences, understanding the importance of the role of society and the individual in preventing and mitigating the consequences of natural disasters, and getting acquainted with the importance and significance of building a culture of long-term natural disaster risk management through defining normative-legal framework and the establishment of an integrated, functional, and efficient system of responsible institutions and participants. • Upon completion of the training, the attendees will have gained knowledge on: - strategic activities, procedures, holders of realisation, roles, and responsibilities in the system of natural disaster risk management; - typical challenges related to planning and realisation of activities, deployment of relevant stakeholders, and coordinated cooperation among responsible institutions and participants at all levels (national, regional, and local); - civil protection role of the individual – citizen and its performance. • Knowledge acquired from the training will enable the attendees to participate successfully in: - planning and realisation of adequate studies, measures, and activities for preventing and mitigating the effects of natural disasters; - preparation of appropriate teams and elaboration of operational procedures in emergencies; - the protection and rescue system in terms of coordination in the field, arrangement of appropriate tasks and their successful performance, and cooperation with relevant institutions and participants at all levels.
Participants	 Disaster management personnel Urban development, city planning, and civil engineering professionals Representatives of higher education institutions Law enforcement officers Representatives of the sector for emergency management Representatives of the localgovernment bodies Public companies personnel





	 management personnel Private sector stakeholders Health institution officials Facilities management personnel 	ommunica ommunica	,
Number of participants	30		
Duration	2 days, 8 hours training per day with coffee breaks		
		No of hours	Lecturer
	 Module 1. Introductory lecture - Natural disasters in the Republic of Serbia Natural disasters on the territory of the Republic of Serbia Frequency and trend of disasters in Serbia Vulnerability maps from natural disasters The impact of climate change on natural disasters The normative legal framework for engaging the subject for the protection and rescue system in the fight against natural disasters 	4	Dragan Mlađan Boban Milojković Darko Simović
Programme content	 Module 2. Floods as natural disasters Defining floods among natural disasters Causes of forming and floods on the territory of the Republic of Serbia Floods areas in Serbia Flood damages Legislation in the fight against floods Measures for flood prevention Activities and measures in case of floods Place, role, rights and duties of citizens during floods and after floods 		Boban Milojković Darko Simović
	 Module 3. Epidemics and emergencies Epidemic conceptual determination The deadliest epidemics in human history Historical context of epidemics in Serbia The current epidemiological situation in the Republic of Serbia Paradoxes of immunization Prospects of combating infectious diseases 	4	Dalibor Kekić
	Module 4. Fires as natural disastersBriefly about fires - general terms, causes and		





-		
conditions of their occurrence	4	Dragan
• Normative - legal framework for the engagement		Mlađan
of protection system entity and rescue in case of		Darko
large scale fire		Simović
 Preventive measures for fire protection and rescue 		
-		
 Hand-held dry powder "C-6" 		
 Handbook fire extinguishers with carbon dioxide 		
• Fire extinguisher with water and air foam "VP-15"		
• Hydrants		
• Extinguishing agents for forest fires, crops and		
agricultural holdings		
 The handy extinguishing agents include 		
 Evacuation and rescue of vulnerable ones 		
Video presentation, film, a variety of case studie	s and d	isaster
scenarios		
Academy of criminalistic and police studies, Belgrade		
Sasa Mijalkovic		
,		
Books, brochures, and material provided by lecturer		
	 Normative - legal framework for the engagement of protection system entity and rescue in case of large scale fire Preventive measures for fire protection and rescue Fire extinguishing agents Hand-held dry powder "C-6" Handbook fire extinguishers with carbon dioxide Fire extinguisher with water and air foam "VP-15" Hydrants Extinguishing agents for forest fires, crops and agricultural holdings The handy extinguishing agents include Evacuation and rescue of vulnerable ones Video presentation, film, a variety of case studie 	 Normative - legal framework for the engagement of protection system entity and rescue in case of large scale fire Preventive measures for fire protection and rescue Fire extinguishing agents Hand-held dry powder "C-6" Handbook fire extinguishers with carbon dioxide Fire extinguisher with water and air foam "VP-15" Hydrants Extinguishing agents for forest fires, crops and agricultural holdings The handy extinguishing agents include Evacuation and rescue of vulnerable ones Video presentation, film, a variety of case studies and di scenarios Academy of criminalistic and police studies, Belgrade





ProgrammeTitle	Natural Disaster Risk Management	
Training description	The participants of the training will be introduced with the types of natural disasters as well as the causes of their occurrence. Special attention will be given to natural disasters that most often affect Kosovo*. In addition, the participants will be introduced with direct and indirect consequences occurred due to natural disasters. During the training there will be word about modern methodology used for natural disaster risk assessment and risk management. Measures and activities, which need to be undertaken for prediction, prevention and mitigation of consequences, occurred due to natural disaster will be also discussed.	
Objectives and outcomes of training	The aim of the training is to enable the members of the protection / rescue / civil protection structures of the city / municipality, company and other legal entity to be able to timely and efficiently carry out the tasks of protecting and saving people, material and other goods endangered by natural disasters. Also, the goal is to strengthen the awareness of the causes and possible consequences of natural disasters, as well as the types of natural disasters that are characteristic for this area, and the ways for possible prediction and reduction of the consequences of natural disasters. After the completion of the training, participants will have acquired knowledge about: - the definition of natural disasters and the types of disasters - the types of natural disasters that most often affect for Kosovo* area - how to behave during and after the disaster occurs - is it possible to predict natural disaster and what are the prevention measures that must be undertaken to mitigate the consequences - which structures should be involved in the defense from natural disasters - how to mitigate the consequences of natural disasters - actions in emergencies The knowledge acquired through the training will enable participants to participate successfully in: - organization of specialized teams and elaboration of operational procedures for acting in emergency situations; - planning and realization of appropriate analyzes, measures and activities for prevention and mitigation of consequences of natural disasters; - protection and rescue through coordination on the field, distribution of tasks and positive outcome of their resolution; - cooperation with relevant institutions and entities at all levels; - monitoring and monitoring of the situation	
Participants		





Number of	 Representatives of higher education institutions Representatives of secondary and primary education institutions Representatives of local self-government Representatives of public enterprises Representatives of spatial planning services, urban planning and construction Staff employed in utility services Representatives of health institutions Representatives of the private sector Representatives of non-governmental organizations Citizens' associations 		
participants Duration	2 days, 8 hours training per day with coffee breaks		
Duranon	2 days, o nours naming per day with conee breaks	No of	
		hours	Lecturer
	Module 1. Introductory lecture		
	 Typology of natural disasters Natural disasters that most often affect the territory of Kosovo 	1	Predrag Stanojević
Programme content	 Module 2. Earthquakes as natural disasters In brief about earthquakes - general terms and definitions Effects and consequences of the earthquake Seismic activity on the territory of Kosovo * Emergency situation management in the case of an earthquake Studies, measures and activities for reducing the effects of the earthquake prior to the occurrence of a natural disaster Criteria for designing seismic-resistant structures Planning, designing and building a critical infrastructure Emergency post- earthquake measures and activities Short-term post- earthquake studies and activities 	3.5	Mirjana Galjak
	 Module 3. Floods, landslides and rockfalls as natural disasters Briefly about floods - general terms and definitions The consequences of floods Protection against floods Flood prevention measures Landslides, rockfalls and erosion as natural disasters Landslides and rockfalls on the territory of Kosovo* Formations and elements of the landslide 	3	Jelena Rajović





	 Landslide prevention and remediation Protection and rescue plans in case of landslides, rockfalls and erosion Module 4. Droughts as natural disasters Briefly about droughts - general terms and definitions Drought indicators The occurrences of drought in the territory of Kosovo * Planning the drought mitigation The risk management process Measures for prevention of drought effects Procedure in the case of drought 	3	Mirjana Galjak
	 Module 5. Fires as natural disasters Definition of fire Types of fire type Causes of fire direct contact of combustible matter with flame self-ignition and chemical reactions explosion as a cause of fire Electricity as a fire trigger mechanical causes natural causes of fire Fire and fire fighting procedure Fire escape plans 	3	Predrag Stanojević
	 Module 6. Epidemic and emergencies Definition of the epidemic Causes of an epidemic Epidemiological surveillance Current epidemiological situation in the territory of Kosovo * Procedures after proclamation of an epidemic Measures of protection and rescue of the population from infectious diseases The role of competent authorities in the prevention and suppression of the epidemic as a result of natural disasters 	1.5	Nenad Marković
Methodology	Video presentation, film, a variety of case studies scenarios	s and d	isaster
Place of training	Technical College of Applied Sciences Urosevac w Leposavic	rith temp	oorary seat in
Programme manager/ coordinator	Predrag Stanojević		
Literature	Books, brochures, and material provided by lecturer		





ProgrammeTitle	Natural Disaster Risk Management
Training description	Training participants will be familiar with natural disasters, causes and their direct and indirect consequences, with special emphasis on natural disasters that frequently afflict the Republic of Srpska. Special attention will be paid to risk management of natural disasters, in terms of measures and activities to be undertaken with the aim of preventing and reducing the consequences of natural disasters. Part of the training will be dedicated to and emergency procedures in the event of natural disasters, normative-legal framework of engagement subjects protection system and rescue, responsible institutions and the role of the individual-citizen, as well as short-term and long-term measures and activities to be undertaken following the occurrence of natural disasters.
Objectives and outcomes of training	 Training goals are directed towards strengthening public awareness of the real dangers of natural disasters and their consequences, understanding the importance of the role of society and the individual in preventing and mitigating the consequences of natural disasters, as well as learning about the importance and importance of formation of concept of long-term risk management of natural disasters through defining the normative-legal framework and establishing an integrated, functional and efficient system of responsible institutions and operators. After realization of training, training participants will have gained knowledge about: species and character of natural disasters, strategic activities, procedures, for implementation, roles and responsibilities in the system of risk management of natural disasters; challenges concerning the planning and realization of activities, introduction of relevant actors and the coordination of cooperation of responsible institutions and entities at all levels (national, regional and local); the role of the individual-citizen in civil protection system and its implementation. Knowledge gained in basic training will enable participants to successfully participate in: the planning and achievement of adequate study, measures and activities to prevent and towards the consequences of natural disasters; frequences of prevent and towards the consequences of natural disasters; frequences of the individual of the operating procedures of action in an emergency; the system of protection and rescue in terms of coordination in the field, the appropriate distribution of tasks and their successful performance of, and co-operation with institutions and entities at all levels.



Development of master curricula for natural disasters risk management in Western Balkan countries (573806-EPP-1-2016-1-RS-EPPKA2-CBHE-JP)



Participants	 Experts in the field of national security, protection Civil protection, mountain rescue service Students and teachers of the Faculty of Security Representative of the city administration Representatives of the emergency management Representatives of the Police Training Authorit Representative of hydrometeorological institut Safety experts and disaster management 	y Studies t sector	phology, civil
Number of participants	30		
Duration	1 day, 8 hours training per day with coffee breaks		
		No of hours	Lecturer
	 Module 1. Introducing lecture Presentation of the project and the study program Concept, phenomenon, types of natural disasters Natural disasters on the territory of the Republic of Srpska Frequency and disaster trend in Srpska / BiH Emergency Management Cycle in natural disaster Significance of a risk map and a disaster risk map Place and role of an individual and institution in a disaster 	0.5	Mile Sikman
Programme content	 Module 2. Earthquakes as natural disasters The concept and types of earthquakes The direct and indirect consequences of the earthquake Seismic activity on the territory of Rupublic of Srpska/BiH, Seismic hazard, seismic risk management cycle and emergency situation in case of earthquakes Responsible institutions and operators, and plan of protection and rescue in case of earthquakes in Republic Srpska Maps and comprehensive risk prevention measures of the seismic risk assessment Planning, design and construction of critical infrastructure, Emergency measures and long-term activities measures and activities, 	0.5	Zdenko Tupajic



Development of master curricula for natural disasters risk management in Western Balkan countries (573806-EPP-1-2016-1-RS-EPPKA2-CBHE-JP)



 Measures and activities after earthquakes, The place and role of the individuals in the event of earthquakes, A good example of Japan 		
Module 3. Landslides, erosion and landslides, torrential flows as a natural disaster The formation and elements of the landslide, slopes and torrential flows	0.5	Radislav Tosic
 Landslides, slopes and torrential currents in the territory of the Republic of Srpska - Accent on Banja Luka area Risk maps focusing on the Banja Luka area Landscape prevention and remediation Plans of protection and rescue in case of landslides, landslides and erosion Excessive flows in urban areas Place and role of an individual - citizen before and after the occurrence of landslides and landslides 	0.5	Novica Lovric
Module 4. Floods as natural disasters		
Defining floods		
 Causes of formation and floods in the territory of Republic of Srpska Floods areas in Srpska / BiH Biggest flows in Srpska and risk maps Damage from floods Emergency Management Cycle on floods Measures for flood prevention Existing infrastructure in Srpska: embankments, pumping stations, channels, etc. Activities and measures in case of floods Place, role, rights and duties of citizens and institutions during floods and after floods Floods in the lower Vrbas river in May 2014. The impact of Tamara's cyclone on creating conditions for large precipitation, maps, 	0.5	Slavica Maksimovic Aleksandar Majic
cartograms, damage estimation in 2014., etc.A good example of the Republic of Austria		
 Module 5. Droughts and fires as natural disaster Definition of drought and fire Drought indexes Managing the risk of drought and fire 	0.5	Milica Sikimic





 The existing infrastructure in Srpska for the defense against drought and fire (water canals, fire stations) Economic consequences of drought Management of water potentials Prevention measures Monitoring the impact of drought A good example of the Republic of Israel Module 6. Disclaimer, instutucionalni framework and legal acts in the treatment of the natural disasters National Strategy for Emergency Response and Rescue Legal obligation for the role of individuals in case of natural disasters. Legal obligation of the role of institutions in case of natural disasters International conventions and treaties on the fight against natural disasters Normative - legal framework for engaging the subject of the protection and rescue system in the fight against natural disasters National action plan for mitigating the consequences of drought and land degradation Action Plan for Implementation of the National Program for Risk Management from Natural Disasters 	0.5	Predrag Ceranic
 Module 7. Management of emergency situations and the role of the military and police. Emergency management and the role of the individuals Training and education role of the army and 	0.5	Darko Paspalj
 Intuining and calculation role of the unity and the police in the prevention and mitigation of consequences, during the natural disaster Chain of command Module 8. Joint exercise of providing first aid at risk of flooding (resuscitation), at risk of an earthquake (stroke order). 	0.5	A group of students of the Faculty of Security Sciences
Module 9. Presentation of mobile application for alarm on growth level of the river.	0.5	DVC solution





Methodology	Video presentation, film, a variety of case studies and disaster scenarios
ProgrammeTitle	Natural Disaster Risk Management
Thate of training	criminalistics)
Programme	
manager/	Radoslav Ivanis, Darko Paspalj
coordinator	
Literature	Books, booklets, materials, speakers, beanie





Training description	The participants of the training will be introduced to the natural disasters, their causes, as well as their direct and indirect consequences, with particular reference to the natural disasters that most often affect the Republic of Serbia. Special attention will be paid to the contemporary methodology of natural disaster risk assessment and management in terms of measures and activities that should be undertaken with the aim of preventing and mitigating the effects of natural disasters. The training will also be dedicated to emergency procedures in case of a natural disaster event, the normative-legal framework for the engagement of subjects of the protection and rescue system, responsible institutions and the role of the individual - citizen, as well as short-term and long-term post-disaster measures and activities.
Objectives and outcomes of training	 The main objectives of the training are aimed at raising public awareness of the real danger of natural disasters and their consequences, understanding the importance of the role of society and the individual in preventing and mitigating the consequences of natural disasters, and getting acquainted with the importance and significance of building a culture of long-term natural disaster risk management through defining normative-legal framework and the establishment of an integrated, functional, and efficient system of responsible institutions and participants. Upon completion of the training, the attendees will have gained knowledge on: strategic activities, procedures, holders of realisation, roles, and responsibilities in the system of natural disaster risk management; typical challenges related to planning and realisation of activities, deployment of relevant stakeholders, and coordinated cooperation among responsible institutions and participants at all levels (national, regional, and local); civil protection role of the individual – citizen and its performance. Knowledge acquired from the training will enable the attendees to participate successfully in: planning and realisation of adequate studies, measures, and activities for preventing and mitigating the effects of natural disasters; preparation of appropriate teams and elaboration of operational procedures in emergencies; the protection and rescue system in terms of coordination in the field, arrangement of appropriate tasks and their successful performance, and cooperation with relevant institutions and participants at all levels.
Participants	 Disaster management personnel Urban development, city planning, and civil engineering professionals Representatives of higher education institutions Law enforcement officers Representatives of the sector for emergency management Representatives of the localgovernment bodies Public companies personnel Facilities management personnel Utilities (transport, water, energy, telecommunication, waste) management personnel Private sector stakeholders Health institution officials Red Cross





Centres for social work		
 Humanitarian organisations and associations 		
30		
2 days, 8 hours training per day with coffee breaks		
	No of hours	Lecturer
 Module 1. Introductory lecture - Natural disasters in the Republic of Serbia Natural disasters on the territory of the Republic of Serbia Frequency and trend of disasters in Serbia Vulnerability maps from natural disasters The impact of climate change on natural disasters The normative legal framework for engaging the subject for the protection and rescue system in the fight against natural disasters 	1.5	Slaviša Trajković
 Module 2. Earthquakes as natural disasters Primary and secondary effects of earthquakes Direct and indirect earthquake effects Seismic activity on the territory of Serbia Seismic hazard, seismic risk, and the earthquake emergency management cycle Normative-legal framework, responsible institutions and participants, and protection and rescue plan in case of earthquake event in the Republic of Serbia Pre-earthquake studies, measures, and activities for reduction of earthquake consequences Land-use planning Integrated assessment of seismic risk Requirements for the earthquake-resistant design criteria Studies for planning, design, and construction of critical infrastructure Post-earthquake measures and activities Long-term post-earthquake studies and activities Long-term post-earthquake measures and activities Civil protection role of citizens in case of earthquake event 	3	Elefterija Zlatanović
	 Associations of citizens 30 2 days, 8 hours training per day with coffee breaks 2 days, 8 hours training per day with coffee breaks Module 1. Introductory lecture - Natural disasters in the Republic of Serbia Natural disasters on the territory of the Republic of Serbia Frequency and trend of disasters in Serbia Vulnerability maps from natural disasters The impact of climate change on natural disasters The normative legal framework for engaging the subject for the protection and rescue system in the fight against natural disasters Primary and secondary effects of earthquakes Direct and indirect earthquake effects Seismic activity on the territory of Serbia Seismic hazard, seismic risk, and the earthquake emergency management cycle Normative-legal framework, responsible institutions and participants, and protection and rescue plan in case of earthquake event in the Republic of Serbia Pre-earthquake studies, measures, and activities for reduction of earthquake consequences Land-use planning Integrated assessment of seismic risk Requirements for the earthquake-resistant design criteria Studies for planning, design, and construction of critical infrastructure Post-earthquake measures and activities Long-term post-earthquake measures and activities Long-term post-earthquake measures and activities 	 Humanitarian organisations and associations Associations of citizens 30 2 days, 8 hours training per day with coffee breaks 2 days, 8 hours training per day with coffee breaks 2 days, 8 hours training per day with coffee breaks Mo of hours Module 1. Introductory lecture - Natural disasters in the Republic of Serbia Natural disasters on the territory of the Republic of Serbia Natural disasters on the territory of the Republic of Serbia Vulnerability maps from natural disasters The impact of climate change on natural disasters The normative legal framework for engaging the subject for the protection and rescue system in the fight against natural disasters Primary and secondary effects of earthquakes Direct and indirect earthquake effects Seismic hazard, seismic risk, and the earthquake emergency management cycle Normative-legal framework, responsible institutions and participants, and protection and rescue plan in case of earthquake event in the Republic of Serbia Pre-earthquake studies, measures, and activities for reduction of earthquake consequences Land-use planning Integrated assessment of seismic risk Requirements for the earthquake-resistant design criteria Studies for planning, design, and construction of critical infrastructure Post-earthquake measures and activities Inmediate emergency measures and activities Inmediate emergency measures and activities Civil protection role of citizens in case of





Module 3. Landslides, rockfalls, and erosions as natural disasters		
 General on landslides and rockfalls Landslides and rockfalls on the territory of the Republic of Serbia The origin and elements of the landslide Identification of the landslide Prevention and remediation of landslides Emergency Protection and Rescue System in the Republic of Serbia Protection and rescue plan in case of landslides, rockfalls, and erosions Place and role of the individual - citizen before and after the occurence of landslides and rockfalls 	3	Zoran Bonić
 Module 4. Floods as natural disasters Defining floods among natural disasters Causes of forming and floods on the territory of the Republic of Serbia Floods areas in Serbia Flood damages Legislation in the fight against floods Measures for flood prevention Activities and measures in case of floods Place, role, rights and duties of citizens during floods and after floods 	3	Mladen Milanović
 Module 5. Droughts as natural disasters Drought definition and drought indices Drought research in Serbia Drought risk management Monitoring drought impacts Drought monitoring and early warning information systems 	3	Milan Gocić
 Module 6. Institutional framework The Constitution of the Republic of Serbia Law of emergency situations Law on meteorological and hydrological activity Law on the confirmation of the United Nations Convention to combat desertification in countries experiencing serious drought and/or desertification, particularly in Africa Law on protection of population from infectious diseases Water law National program for managing the risk of natural disasters 	1.5	Slaviša Trajković





	 National strategy for disaster risk reduction and protection and rescue in emergencies National Action Plan for mitigating the effects of drought and land degradation Action Plan for implementation of the national program for managing risks from natural disasters (2016-2020) Rulebook on the establishment of a methodology for making a preliminary flood risk assessment Guidance on the methodology for the development of vulnerability assessment and emergency response plans and rescue plans
Methodology	Video presentation, film, a variety of case studies and disaster scenarios
Place of training	Faculty of Civil Engineering and Architecture University of Niš
Programme manager/ coordinator	Milan Gocić
Literature	Books, brochures, and material provided by lecturer





Programme Title	Natural Disaster Risk Management Training
Training description	The participants of the training will be introduced to the natural disasters, their causes, as well as their direct and indirect consequences, with particular reference to the natural disasters that most often affect the Republic of Serbia. Special attention will be paid to the contemporary methodology of natural disaster risk assessment and management in terms of measures and activities that should be undertaken with the aim of preventing and mitigating the effects of natural disasters. The training will also be dedicated to emergency procedures in case of a natural disaster event, the normative-legal framework for the engagement of subjects of the protection and rescue system, responsible institutions and the role of the individual - citizen, as well as short-term and long-term post-disaster measures and activities.
Objectives and outcomes of training	 The main objectives of the training are aimed at raising public awareness of the real danger of natural disasters and their consequences, understanding the importance of the role of society and the individual in preventing and mitigating the consequences of natural disasters, and getting acquainted with the importance and significance of building a culture of long-term natural disaster risk management through defining normative-legal framework and the establishment of an integrated, functional, and efficient system of responsible institutions and participants. Upon completion of the training, the attendees will have gained knowledge on: strategic activities, procedures, holders of realisation, roles, and responsibilities in the system of natural disaster risk management; typical challenges related to planning and realisation of activities, deployment of relevant stakeholders, and coordinated cooperation among responsible institutions and participants at all levels (national, regional, and local); civil protection role of the individual – citizen and its performance. Knowledge acquired from the training will enable the attendees to participate successfully in: planning and realisation of adequate studies, measures, and activities for preventing and mitigating the effects of natural disaster; preparation of appropriate teams and elaboration of operational procedures in emergencies; the protection and rescue system in terms of coordination in the field, arrangement of appropriate tasks and their successful performance, and cooperation with relevant institutions and participants at all levels.
Participants	 Disaster management personnel Urban development, city planning, and civil engineering professionals Representatives of higher education institutions Law enforcement officers Representatives of the sector for emergency management Representatives of the local government bodies Public companies' personnel Facilities management personnel Utilities (transport, water, energy, telecommunication, waste) management personnel Private sector stakeholders Health institution officials Red Cross Centres for social work Humanitarian organisations and associations





	 Associations of citizens 		
Number of	60 participants (30 participants at one-day training in 2018 a	nd 30 partic	ipants at one-
participants	day training in 2019)	1	
Duration	2 one-day training, 8 hours training per day with coffee brea	1	
		No. of hours	Lecturer
	 Module 1. Introductory lecture - Natural disasters in the Republic of Serbia Natural disasters on the territory of the Republic of Serbia Frequency and trend of disasters in Serbia Vulnerability maps from natural disasters The impact of climate change on natural disasters The normative legal framework for engaging the subject for the protection and rescue system in the Fight against natural disasters 	1	Sasa Stojanovic
Programme content	 Module 2. Epidemics as natural disasters Epidemiology - Introduction Epidemics which have changed the courses of history Basic concepts related to infectious disease outbreaks Actual epidemiological situation in the Republic of Serbia Education of health workers for crisis management and education of the population on the prevention of infectious diseases 	2	Elizabeta Ristanovic
	 Module 3. Fires as natural disasters Briefly about fires - general terms, causes and conditions of their occurrence Normative - legal framework for the engagement of protection system entity and rescue in case of large scale fire Preventive measures for fire protection and rescue Fire extinguishing agents (showing means and equipment of Fire Brigade Belgrade) Procedures in the event of fire and its extinguishing (demonstration – Exercise Fire Brigade Belgrade) 	4	Rade Slavkovic
	Module 4. Earthquakes as natural disasters		
Programme content	 Primary and secondary effects of earthquakes Direct and indirect earthquake effects Seismic activity on the territory of Serbia Seismic hazard, seismic risk, and the earthquake emergency management cycle Normative-legal framework, responsible institutions and participants, and protection and rescue plan in case of earthquake event in the Republic of Serbia Pre-earthquake studies, measures, and activities for 	3	Miroslav Talijan





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	reduction of earthquake consequences		
	- Land-use planning		
	- Integrated assessment of seismic risk		
	- Requirements for the earthquake-resistant design		
	criteria		
	- Studies for planning, design, and construction of		
	critical infrastructure		
	 Post-earthquake measures and activities 		
	- Immediate emergency measures and actions		
	- Short-term post-earthquake studies and activities		
	- Long-term post-earthquake measures and activities		
	Civil protection role of citizens in case of earthquake		
	event		
	Module 5. Floods as natural disasters		
	 Defining floods among natural disasters 	2	
	 Causes of forming and floods on the territory of the 		Vojislav
	Republic of Serbia		Krstovic
	 Floods areas in Serbia 		
	 Flood damages 		
	 Legislation in the fight against floods 		
	 Measures for flood prevention 		
	 Activities and measures in case of floods 		
	 Place, role, rights and duties of citizens during floods 		
	and after floods		
	Module 6. Landslides, rockfalls, and erosions as natural		
	disasters		
	 General on landslides and rockfalls 	2	
	 Landslides and rockfalls on the territory of the Republic 		D 1
	of Serbia		Radovan Karkalic
	 The origin and elements of the landslide 		Narkalic
	 Identification of the landslide 		
	 Prevention and remediation of landslides 		
	 Emergency Protection and Rescue System in the 		
	Republic of Serbia		
	 Protection and rescue plan in case of landslides, 		
	rockfalls, and erosions		
	• Place and role of the individual - citizen before and after		
	the occurence of landslides and rockfalls		
Methodology	Video presentation, film, a variety of case studies and disaste		
Place of training	National Defence School and Military Academy, University	of Defence, B	elgrade
Programme			
0			I
manager/	Miroslav Talijan		
0	Miroslav Talijan Books, brochures, and material provided by lecturer		





ProgrammeTitle	Natural Disaster Risk Management
Training description	The participants of the training will be introduced to the natural disasters, their causes, as well as their direct and indirect consequences, with particular reference to the natural disasters that most often affect the Republic of Serbia. Special attention will be paid to the contemporary methodology of natural disaster risk assessment and management in terms of measures and activities that should be undertaken with the aim of preventing and mitigating the effects of natural disasters. The training will also be dedicated to emergency procedures in case of a natural disaster event, the normative-legal framework for the engagement of subjects of the protection and rescue system, responsible institutions and the role of the individual - citizen, as well as short-term and long-term post-disaster measures and activities.
	The main objectives of the training are aimed at raising public awareness of the real danger of natural disasters and their consequences, understanding the importance of the role of society and the individual in preventing and mitigating the consequences of natural disasters, and getting acquainted with the importance and significance of building a culture of long-term natural disaster risk management through defining normative-legal framework and the establishment of an integrated, functional, and efficient system of responsible institutions and participants.
Objectives and outcomes of training	 strategic activities, procedures, holders of realisation, roles, and responsibilities in the system of natural disaster risk management; typical challenges related to planning and realisation of activities, deployment of relevant stakeholders, and coordinated cooperation among responsible institutions and participants at all levels (national, regional, and local); civil protection role of the individual – citizen and its performance.
	 Knowledge acquired from the training will enable the attendees to participate successfully in: planning and realisation of adequate studies, measures, and activities for preventing and mitigating the effects of natural disasters; preparation of appropriate teams and elaboration of operational procedures in emergencies; the protection and rescue system in terms of coordination in the field, arrangement of appropriate tasks and their successful performance, and cooperation with relevant institutions and participants at all levels.
Participants	 Disaster management personnel Urban development, city planning, and civil engineering professionals Representatives of higher education institutions Law enforcement officers Representatives of the sector for emergency management Representatives of the local government bodies Public companies personnel
	 Facilities management personnel Utilities (transport, water, energy, telecommunication, waste)



Development of master curricula for natural disasters risk management in Western Balkan countries (573806-EPP-1-2016-1-RS-EPPKA2-CBHE-JP)



	 management personnel Private sector stakeholders Health institution officials Red Cross Centers for social work Humanitarian organizations and associations Associations of citizens 		
Number of participants	30		
Duration	2 days, 8 hours training per day with coffee breaks		
		No of hours	Lecturer
	 Module 1. Introductory lecture - Natural disasters in Bosnia and Herzegovina Natural disasters on the territory of Bosnia and Herzegovina Frequency and trend of disasters in Bosnia and Herzegovina Vulnerability maps from natural disasters The impact of climate change on natural disasters The normative legal framework for engaging the subject for the protection and rescue system in the fight against natural disasters 	1.5	Emina Hadžić
Programme content	 Module 2. Earthquakes as natural disasters Primary and secondary effects of earthquakes Direct and indirect earthquake effects Seismic activity on the territory of Bosnia and Herzegovina Seismic hazard, seismic risk, and the earthquake emergency management cycle Normative-legal framework, responsible institutions and participants, and protection and rescue plan in case of earthquake event in Bosnia and Herzegovina Pre-earthquake studies, measures, and activities for reduction of earthquake consequences Land-use planning Integrated assessment of seismic risk Requirements for the earthquake-resistant design criteria Studies for planning, design, and construction of critical infrastructure 	3.0	Naida Ademović





 Post-earthquake measures and activities Immediate emergency measures and actions Short-term post-earthquake studies and activities Long-term post-earthquake measures and activities Civil protection role of citizens in case of earthquake event Module 3. Landslides, rockfalls, and erosions as natural disasters General on landslides and rockfalls Landslides and rockfalls on the territory of Bosnia and Herzegovina 		
 The origin and elements of the landslide Identification of the landslide Prevention and remediation of landslides Emergency Protection and Rescue System in Bosnia and Herzegovina Protection and rescue plan in case of landslides, rockfalls, and erosions Place and role of the individual - citizen before and after the occurence of landslides and rockfalls 	3.0	Adis Skejić
Module 4. Floods as natural disasters		
 Defining floods among natural disasters Causes of forming and floods on the territory of t Bosnia and Herzegovina Floods areas in Bosnia and Herzegovina 	3.0	Hata Milišić/ Emina
 Flood damages Legislation in the fight against floods Measures for flood prevention Activities and measures in case of floods Place, role, rights and duties of citizens during floods and after floods 		Hadžić
Module 5. Droughts as natural disasters		
 Drought definition and drought indices Drought research in Bosnia and Herzegovina Drought risk management Monitoring drought impacts Drought monitoring and early warning information systems 	3.0	Hata Milišić/ Emina Hadžić
Module 6. Institutional framework		
The Constitution of Bosnia and HerzegovinaLaw of emergency situations		





	 Law on meteorological and hydrological activity Law on the confirmation of the United Nations Convention to combat desertification in countries experiencing serious drought and/or desertification, particularly in Africa Law on protection of population from infectious diseases Water law National program for managing the risk of natural disasters National strategy for disaster risk reduction and protection and rescue in emergencies National Action Plan for mitigating the effects of drought and land degradation Action Plan for implementation of the national program for managing risks from natural disasters (2016-2020) Rulebook on the establishment of a methodology for making a preliminary flood risk assessment Guidance on the methodology for the development of vulnerability assessment and emergency response plans and rescue plans
Methodology	Video presentation, film, a variety of case studies and disaster scenarios
Place of training	University of Sarajevo
Programme manager/ coordinator	Emina Hadžić
Literature	Books, brochures, and material provided by lecturer





ProgrammeTitle	Natural Disaster Risk Management		
Training description	The participants of the training will be introduced to the natural disasters, their causes, as well as their direct and indirect consequences, with particular reference to the natural disasters that most often affect the region of Northern Kosovo*. Special attention will be paid to the contemporary methodology of natural disaster risk assessment and management in terms of measures and activities that should be undertaken with the aim of preventing and mitigating the effects of natural disasters. The training will also be dedicated to emergency procedures in case of a natural disaster event, responsible institutions and the role of the decision making stakeholders, as well as short-term and long-term post-disaster measures and activities.		
Objectives and outcomes of training	The main objectives of the training are aimed at raising public awareness of the real danger of natural disasters and their consequences, understanding the importance of the role of society and the individual in preventing and mitigating the consequences of natural disasters, and getting acquainted with the importance and significance of building a culture of long-term natural disaster risk management through applicable framework and the establishment of an integrated, functional, and efficient system of responsible institutions and individuals. Upon completion of the training, the attendees will have gained knowledge on: strategic activities, procedures, holders of realization, roles, and responsibilities in the system of natural disaster risk management; typical challenges related to planning and realization of activities, deployment of relevant stakeholders, and coordinated cooperation among responsible institutions and decision making persons. Knowledge acquired from the training will enable the attendees to participate successfully in: planning and realization of adequate studies, measures, and activities for preventing and mitigating the effects of natural disasters; preparation of appropriate teams and elaboration of operational procedures in emergencies; the protection and rescue system in terms of coordination in the field, arrangement of appropriate tasks and their successful performance, and cooperation with relevant institutions and participants at all levels.		
Participants	 Disaster management personnel Public works personnel First responders Law enforcement officers Urban Development, City planning Communications personnel Facilities management personnel Parks and recreation personnel Solid waste personnel Street and road maintenance personnel 		





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	 Traffic and transportation personnel Utilities (water, wastewater, electric, gas, and telephone) industry professionals Public Health Officials Private Sector Stakeholders 		
Number of			
participants	30		
Duration	2 days, 8 hours training per day with coffee breaks		
		No of	T
		hours	Lecturer
	Module 1. Introductory lecture - Natural disasters in the teritorry of Kosovo* Natural disasters on the territory of the territory of Kosovo* Frequency and trend of disasters in Kosovo* Vulnerability maps from natural disasters The impact of climate change on natural disasters Module 2. Natural disasters, effects and risks	2	Jelena Đokić
	 Earthquakes as natural disasters Primary and secondary effects of earthquakes Direct and indirect earthquake effects Seismic hazard, seismic risk, and the earthquake emergency management cycle Landslides, rockfalls, and erosions as natural disasters 	6	Jelena Đokić
Programme content	 The origin and elements of the landslide Identification of the landslide Prevention and remediation of landslides Floods as natural disasters Types of floods Floods areas in the territory of Kosovo* Flood damages Measures for flood prevention Droughts as natural disasters Drought definition and drought indices Drought research Drought risk management Monitoring drought impacts 		
	Module 3. Institutional frameworkNormative-legalframework, responsibleinstitutions and participants, and protection andrescue plan in case of natural disasters eventsGuidance on the methodology for the development of	2	Srđan Jović





	vulnerabilityassessmentandemergencyresponse plans and rescue plansModule 4. Activities and measures of preparednessin case of natural disastersPre-disaster studies, measures, and activities forreduction of natural disaster consequencesNatural disaster monitoringandearlywarninginformation systems	3	Nebojša Arsić
	 Module 5. Post-disaster measures and activities Immediate emergency measures and actions Short-term post-disaster studies and activities Long-term post-disaster measures and activities 	3	Nebojša Arsić
Methodology	Video presentation, film, a variety of case studies and d	isaster sc	enarios
Place of training	Faculty of technical sciences Kosovska Mitrovica		
Programme manager/ coordinator	Prof. dr Nebojša Arsić		
Literature	Books, brochures, and material provided by lecturer		