CONSORTIUM MEETING + STUDY VISIT + TRAINING



Date: July 2nd to July 6th, 2018

Place: Ohrid, Macedonia

Knowledge FOr Resilient soCiEty

LLL COURSE PREPARATION AND IMPLEMENTATION

EPOKA University, Albania





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Preliminary Remarks

 Knowledge is an important economic as well as social element in our society.

(Peter Drucker, 1993)

• Lifelong learning (LLL) is one of the ingredients to meet the needs of a changing labor market.

(EHEA, 2012)



Introduction

No.	Course name	Course form	Course duration (weeks)	Target group	Certificate	ECTS	Estimated number of participants
1	Disaster Risk Management	Lecture+ Seminars (laboratory)	7	Professionals students	Yes	No	25-30
2	Fire Engineering	Lecture+ Seminars (laboratory)	7	Professionals students	Yes	No	25-30
3	Fire Evaluation Modelling	Lecture+ Seminars (laboratory)	7	Professionals students	Yes	No	25-30

Requirements & Figures

- 7 weeks (1 day/week)
- Extra-occupational programme
- Bologna conform
- ECTS
- Blended learning concept
 (min % of physical attendance)
- Maximum of 25-30 students





LLL Courses

Objectives:

- Delivery of understanding & practical competences in key areas of DRM&FSE
- Delivery of up-to date expertise
- Sharing of knowledge and knowledge exchange
- Extension of professional network

Target Groups:

- Professionals in private and public sector



LLL COURSE PREPARATION

Stages of LLL Course Development

Analyze the WBC needs for LLL courses

Define LLL outcomes according to EQF/NQFs

Specify Courses and Structure

Define Program and Lecture

Deliver LLL courses in blended way to professionals

- 1. Disaster Risk Management
- 2. Fire Engineering
- 3. Fire Evaluation Modelling



❖ Description: organized in 4 modules, each covering specific topics of the area

1. Risk Management module

Lecturer: Dr. Julinda Keçi

Description: The module 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.

The module 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.

Main Topics: Background to risk and uncertainty, Risk management system, Risk identification tools, Risk analysis tools: quantitative and qualitative, Risk response tools

❖ Description: organized in 4 modules, each covering specific topics of the area

2. Flood Risk Assessment module

Lecturer: Assoc. Prof. Dr. Miriam Ndini

Description: It includes assessing the potential for a hazard from floods to occur and a vulnerability analysis to provide an understanding of the consequences an event of a certain magnitude and frequency occur. Based on this, various mitigation measures, structural and non-structural measures can be evaluated to assess their ability for reducing risk exposure.

Main Topics: Introduction to flood risk management, Quantifying flood risk – probabilistic and statistical approaches, Design floods - and estimation of peak flows methods, catchment characteristics method, storm hydrographs and unit hydrograph methods; Measuring flood processes-Vulnerability analysis.

❖ Description: organized in 4 modules, each covering specific topics of the area

3. Earthquake Disaster Mitigation module

Lecturer: Assoc. Prof. Dr. Hüseyin Bilgin

Description: The module aims to create interest in earthquake disaster mitigation and management; To present the range of available preparedness and mitigation measures, consider their appropriateness, opportunities, limitations of implementation in the regional context.

Main Topics: Seismic Vulnerability and Risk Assessment of Buildings and Bridges; Post-Earthquake Assessment; Retrofitting and Strengthening of Structures; Earthquake Awareness, Preparedness.

❖ Description: organized in 4 modules, each covering specific topics of the area

4. DRM in Landscape Perspectives module

Lecturer: Assoc. Prof. Dr. Sokol Dervishi, MSc. Artan Hysa

Description: The module is focused in understanding the disaster phenomenon as a process rather than an event. The development processes of the landscape aims to give a strong background for this understanding.

Main Topics: Disaster phenomenon as a process rather than an unexpected occurrence; Methods of assessing the processes of landscapes in order to predict and manage landscape scale disasters; Social-Ecological dimensions of DRM in Landscape scale; Introducing various software applications used for Disaster Risk Assessment in Landscape scale; ex. ArcGIS, QGis, etc.; Applying the knowledge into sample exercises on real life cases of Disasters in Landscape scale.

LLL Course "Fire Engineering"

Lecturer: Dr. Erion Luga, Dr. Enea Mustafaraj, MSc. Artemis Hasa

Description: This course addresses the effects of fire on materials used in construction assemblies. Characteristics and limitations of standard fire resistance tests are reviewed along with empirical guidelines and correlations from the standard tests. Heat transfer and mechanics based analyses are applied to evaluate the fire resistance of construction assemblies

Main Topics: Upon completion of the course the student will:

- 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.

LLL Course "Fire Evaluation Modelling"

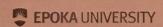
Lecturer: Assoc. Prof. Dr. Sokol Dervishi

Description: 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.

Main Topics:

- Introduction to life safety concepts,
- 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,
- Evacuation modelling,
- Use of evacuation models: Case studies; Uncertainties, Model defaults; Performance-based design concepts,
- FDS+ Evac tutorial

Certification



CERTIFICATE



The LLL certificate may be issued in two forms:

- With ECTS (application to the Ministry of Education, Youth and Sports)
- Without ECTS (agreement with a national or international organization or institution)

Taking into consideration the bureaucratic procedure and delays in the process of application to the Ministry of Education, Youth and Sports, the suggestion of the above mentioned representatives, was to provide a certificate without ECTS for LLL courses that will be offered by our institution.

Conclusions

What is ahead?

Clearly defined responsibilities

- Academic (course-, module-, and lecture-level)
- Administration

Selection of participants

- Promoting through: Brochures, Social media, Email, Info days
- Formal requirements of participants (education)
- Agreements with other institutions/companies.



Thank you!

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