



Knowledge FOR Resilient soCiEty

STUDY VISIT + TRAINING, UNIVERSITY OF ZILINE
January 29th to February 02nd, 2018

OFFERED LECTURERS

Ss. Cyril and Methodius University

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Prof. Violeta Mirčevska

Methods and tools for Seismic Risk assessment and development of information system for emergency response and mitigation plans

- **Seismic hazard**
- **Local site conditions (in each study area)**
- **Detailed building inventory (in each study area)**
- **Building classification scheme**
- **Vulnerability models**



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Prof. Vlatko Šešov

Earthquake Geotechnical Risks Manifestation, Consequences and Mitigation

First part of lecture will present the main aspects of dynamic response of soils, which is the relation between the surface vibrations and the vibrations within the soil medium and the rock half-space. (influence upon the amplitudes and the frequency on travelling seismic waves). Soil is constitutive part of structural foundation and therefore its motion is a direct excitation to them (evaluation of seismic design parameters).

Presentation intends to give practical knowledge for seismic performance of ground and foundation soil as well as information on some of the most destructive geotechnical hazards and the ways how to mitigate the earthquake geotechnical risks.



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Prof. Mihail Garevski

Basic knowledge to be prepared for earthquakes

- **Main characteristic and side effects of earthquakes**
- **How to choose seismic sieve house/building**
- **What to do before, during and after the earthquake**



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Prof. Meri Cvetkovska

Fire safety engineering-from theory to practice

- **Fire as accidental load on structures**
- **Risks from fire as accidental load on structures**
- **Behavior of concrete structures in fire**
- **Behavior of steel structures in fire**
- **Behavior of wooden structures in fire**



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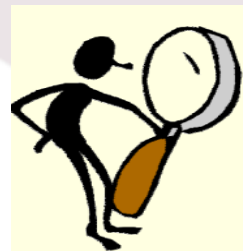




Assist. Prof. Marijana Lazarevska

PROJECT RISK MANAGEMENT

Definition of risk. Risks in investment projects. Classification and sources of risks. Characteristics and specificities of investment projects as possible sources of risk. Possible consequences of risks. Examples of risks. Risk management and uncertainty management. Standards for risk management and their application in construction. Stages of risk management. Planning risk management. Identification of risks. Qualitative risk analysis. Quantitative risk analysis. Methods for assessing the probability of occurrence of risk. Planning a risk response. Monitoring and risk control. Measures to reduce risks.



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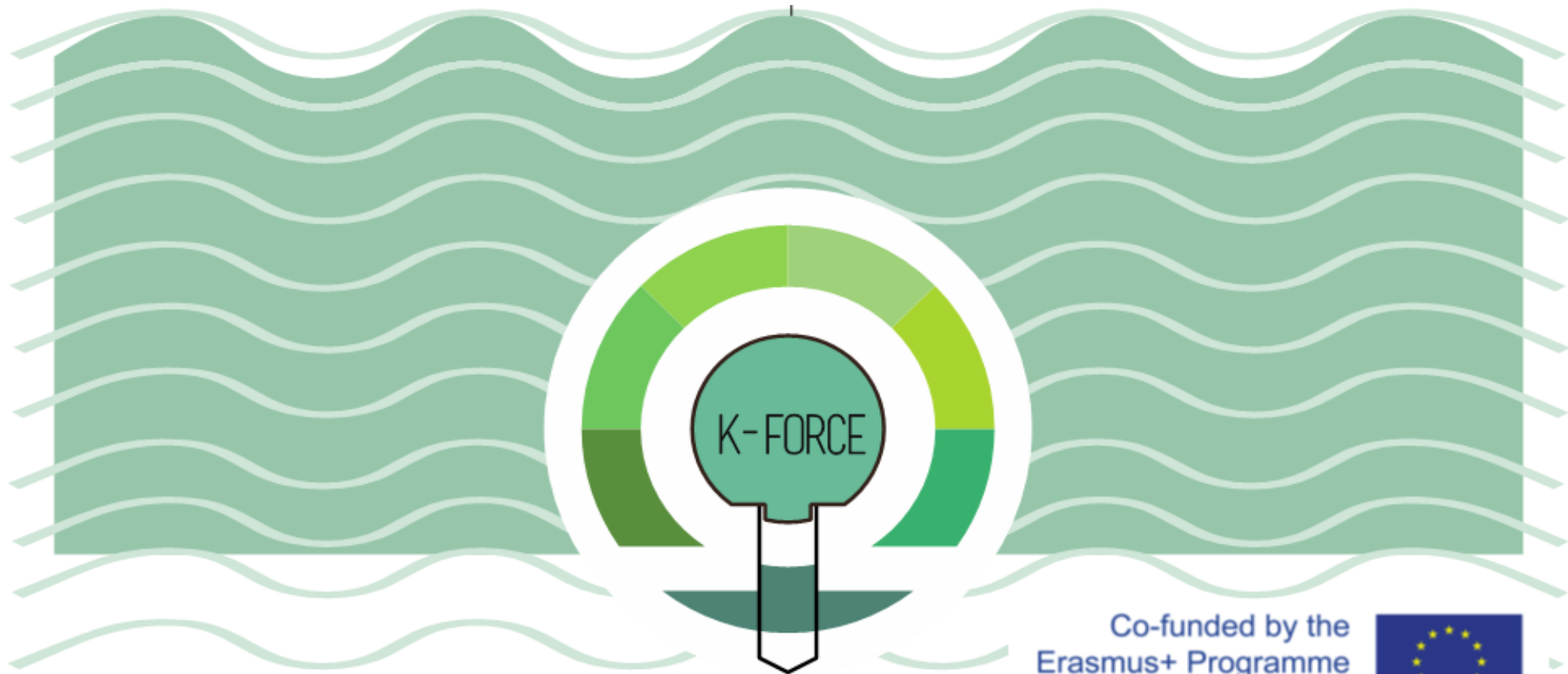
SECOND WEEK WORKSHOP

SAFIR AND OTHER PROGRAMMES FOR FIRE MODELING



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Thank you for your attention!

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