



Knowledge FOR Resilient soCiEty



STUDENT CENTERED LEARNING

METHODOLOGY APPLICATION IN TEACHING AT MP DRM&FS

UNIVERSITY OF NOVI SAD, FACULTY OF TECHNICAL SCIENCES				
DISASTER RISK MANAGEMENT AND FIRE SAFETY - MASTER ACADEMIC STUDIES				
No	COURSE TITLE	TOPIC	APPLIED SCL METHODOLOGY	STUDENT CENTRED LEARNING OUTCOME
1	Evacuation calculation and modelling	Evacuation plans in residential buildings (6 projects)	<p>Students are working in groups of 4, they select the group members. The group divide the tasks between the members.</p> <p>The group has the right to decide if someone has not done the work supposed to do and to exclude the group member.</p> <p>Each group prepares the paper and the presentation which will be discussed with other students and teacher.</p> <p>The final grade is the same for all the group members.</p> <p>Teachers provide the building planes and literature, theoretic basics and regular consultations. The most of the work students are doing on their own.</p> <p>The students have 6 weeks to finish the project.</p> <p>Tasks:</p> <ul style="list-style-type: none"> • Check the evacuation paths in the building and FS measures • Design evacuation scenario(s) • Analysis of building tenants (number, age, vulnerability) • Define the movement speed • Define the obstacles in evacuation • Define the risk in evacuation • Calculate the evacuation time • Design evacuation model in Pathfinder software • Compare calculation and software 	<p><i>Learning outcomes describe the measurable skills, abilities, knowledge or values that students should be able to do or demonstrate as a result of completing a program of study, a course or lesson.</i></p> <ul style="list-style-type: none"> • Mastering academic content; • Learning how to think critically and solve problems; • Working collaboratively; • Evacuation comprehensive knowledge • Math, information, media, and technology skills • Communication creativity • Communicating effectively • Relationship Skills; • Responsibility to work and to the co-workers • Responsible decision-making



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			<p>results</p> <ul style="list-style-type: none"> • Evaluation of Fire Safety • Design evacuation plan • Proposals for FS improvement 	
2	Rescue and protection plans	<p>Identification of buildings vulnerable to natural hazards</p> <p>(6 projects)</p>	<p>Students are working in groups of 4, they select the group members. The group divide the tasks between the members.</p> <p>The group has the right to decide if someone has not done the work supposed to do and to exclude the group member.</p> <p>Each group prepares the paper and the presentation which will be discussed with other students and teacher.</p> <p>The final grade is the same for all the group members.</p> <p>Teachers provide the city planes and literature, theoretic basics and regular consultations. The most of the work students are doing on their own. Field observation plan and schedule is designed in cooperation with teachers.</p> <p>The students have 8 weeks to finish the work.</p> <p>Tasks:</p> <p>Selection of the one natural hazard out of several happened in the past in our city</p> <p>Set the criteria for building vulnerability to the selected hazard</p> <p>Set the criteria for building typology based on vulnerability level</p> <p>Field observation in groups of 4 students in different parts of the city, in order to identify the buildings and check the data obtained from city plan and building design planes.</p>	<p><i>Learning outcomes describe the measurable skills, abilities, knowledge or values that students should be able to do or demonstrate as a result of completing a program of study, a course or lesson.</i></p> <ul style="list-style-type: none"> • Mastering academic content; • Recognition of building structures and materialization • Ability for defining assessment criteria and ranking methods • Ability to recognize the valid and reliable source of information • Field observation and data collection • Working collaboratively; • Math, information, media, and technology skills • Project management • Analytic and systematic assessment • Relationship Skills; • Responsibility to work and to the co-workers • Responsible decision-making