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Knowledge FOr Resilient soCiEty

K-FORCE PROJECT MEETING REPORT ON APPLIED STUDENT CENTERED TEACHING SKILLS

University of Tuzla

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One of the crucial objectives of K-FORCE project, of which depend a large number of indicators of success, is teachers' training and course/programe development.

These objectives were achieved through exchange of knowledge and expertise on DRM&FSE education and training among PA and Program partners (PR), resulted in:

- improved learning and teaching tools
- improved methodologies and pedagogical approaches
- implemented blended learning methodologies and
- created learning material.

WBC staff have been trained in teaching methodology on the K-FORCE project, through a combination of **study visits** to EU partner institutions, **workshops** held and **literature provided** on the project website.





UNIVERSITY OF TUZLA

Training of dr. Edisa Nukić, Mr. Damir Malkočević, Mr. Abaz Velić and Aneta Jokić in teaching methodologies were successful preparation for new Master study programme "Disaster Risk Management and Fire Safety Engineering".

In the beginning of new school year 2018/19 teachers and teaching assistants were asked to apply student-centered and problem based learning. At same time ICT platform is launched as well.

Professors Zvjezdan Karadžin and Edisa Nukić **applied SCL and PBL** into their two courses in summer semester. Students were **divided into two groups (**due to small number of master students) and they worked on chosen topics. Their papers were **presented and defended** in July during summer semester exams.





COURSE TITLE: Community resilience to hazards

Topic: Floods 2014.

Students were working in two groups:
1st group conducted case study related to Serbia
2nd group conducted case study related to Bosnia and Herzegovina.

•Teacher mentored students work

- •Task loads were even
- •All students were graded equally





PAPER 1. FLOODS IN SERBIA 2014, CASE STUDY OBRENOVAC



PAPER 1. FLOODS IN SERBIA 2014, CASE STUDY OBRENOVAC, STUDENTS PRESENTATIONS



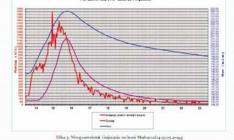




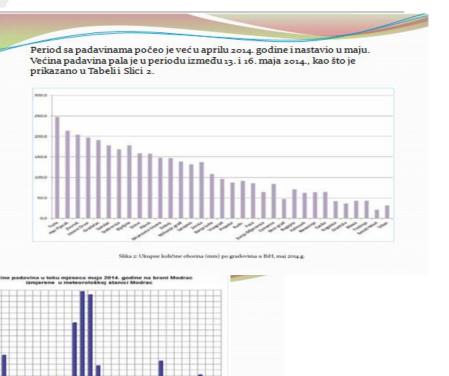


PAPER 2: RESPONSE TO FLOODS IN BOSNIA 2014, ANALYSIS









Slika 6: Količine oltorina koje su mjerene na meterološkoj stanici Modrac



Slika 7: Brana Modrae za vijume max. nivoa vode (203.42 mm.m.)



PAPER 2: RESPONSE TO FLOODS IN BOSNIA 2014, ANALYSIS STUDENTS PRESENTATION











COURSE TITLE: RISK ANALYSIS IN DESICION MAKING PROCESS

Students were working in two groups:

- 1st group collected and prepared landslides data
- •2nd group visualisation of collected data
- •Together: risk assesment

Topic: Landslides – task: identify directly and indirectly endangered structures, perform terrain analysis, identify potentially new landslides and produce a report

Task:

- Digitalize landslides, determine their spatial distribution,
- Determine terrain stability based on the available bases,
- Determine: how many buildings are directly threatened by landslides, how many are located on non-stable and conditionally stable terrains,
- Define: the degree of vulnerability of construction land, vulnerability of economic zones, vulnerability of agricultural land, the degree of threat to forest land,

Create a report with a graphical attachment in "pdf" format.





COURSE TITLE: RISK ANALYSIS IN DESICION MAKING PROCESS LAB WORK AND GROUP WORK



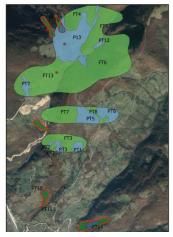






PAPER : LANDSLIDE STABILITY ANALYSIS WITH GRAPHICAL PRESENTATION

KARTA STABILNOSTI TERENA



Га	bela a	atributa s	sloja klizišt	e
id	broj	status	povrsina	napomen
	1	aktivan	41257	
	2	aktivan	16514	
	3	saniran	13425	
	4	aktivan	14508	
	5	aktivan	13707	

ena zemljista šumsko poljoprivredno objekti
poljoprivredno
objekti
kliziste
lnost terena
nestabilan teren
uslovno stabilan

1:18917



Tematska karta stabilnosti terena

					PUTEVII
KLIZIŠTE	OBJEKTI	PRIVREDNI	ŠUMSKO	POLJOPRIVREDNO	GRAĐEVINSKO
		OBJEKTI	ZEMLJIŠTE	ZEMLJIŠTE	ZEMLJIŠTE
K1	-	-	50%	50%	-
K2	-	-	50%	50%	-
K3	100%	-	-	50%	50%
K4	100%	100%	-	50%	50%

Na uslovno stabilnim i nestabilnim terenima za dato područje nalaze se 1708 objekta, od čega 1373 objekta na uslovno stabilnim terenima i 335 objekta na nestabilnim terenima.



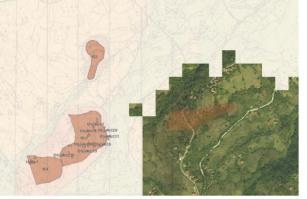
Klizište sa oznakom A1 zauzima površinu od 41462,45 m2, na klizištu se nalaze 2 objekta, zemljište koje zauzima klizište je šumsko zemljište.



Klizište sa oznakom A2 zauzima površinu od 16791,18 m2, na klizištu nema objekata, zemljište koje zauzima klizište je šumsko zemljište.



Klizište sa oznakom A3 zauzima površinu od 13531,87 m2, na klizištu nema objekata, zemljište koje zauzima je klizište je šumsko i poljoprivredno zemljište. Klizište sa oznakom A4 zauzima površinu od 14050,35 m2, na klizištu nema objekata, zemljište koje zauzima klizište



d	Oznaka	Povrsina	Napomena
1	K1	80000	aktivno_kliziste
ż	K2	32000	aktivno_kliziste
3	K3	121180	aktivno kliziste
4	K4	59200	kontura_aktivnog_klizista
5	Objekt1		ugrozeno_klizistem
6	Objekt2		ugrozeno_klizistem
7	Objekt3	0	ugrozono_klizistem
8	Objekt4		ugrozeno_klizistem
9	Objekt5	1	ugrozeno klizistem
10	Objekt6	1	ugrozeno_klizistem
11	Objekt7		ugrozeno_klizistem
12	Objekt8		ugrozeno_klizistem
13	Objekt9	1	ugrozeno_klizistem
14	Objekt10		ugrozeno_klizistem
15	Objekt11		ugrozeno klizistem
16	Objekt12		ugrozeno_klizistem
17	Objekt13		ugrozeno_klizistem
18	Objekt14	. 0	ugrazeno_klizistem
19	Objekt15		ugrozeno_klizistem
20	Objekt16		ugrozeno_klizistem
21	Objekt17		ugrozeno_klizistem
22	Objekt18		ugrozeno_klizistem
23	Objekt19		ugrozeno_klizistem
24	Objekt20	1	ugrozeno_klizistem
25	Objekt21		ugrozeno_klizistem
26	Objekt22	8	ugrozeno_klizistem
27	Objekt23		ugrozeno_klizistem
28	Objekt24		ugrozeno_klizistem
29	Objekt25	1	ugrozeno_klizistem
30	Objekt26		ugrozeno_klizistem
31	Objekt27		ugrozeno_klizistem
32	Hala1	8	ugrozeno_klizistem
33	Objekt28		neposredna_blizina_klizista
34	Objekt29		neposredna bilzina klizista
35	Objekt30	0	neposredna_blizina_klizista
36	Objekt31		neposredra_blizina_klizista
37	Objekt32		neposredna blizina klizista

100 0 100 200 300 400 m

Legenda 10-1 DTM_primjer Klizista [37] 320.262 Bing Aerial 939.618 Klizista





OUTCOMES

- Mastering academic content
- Learning to think critically and solve problems
- Working collaboratively
- Improved communications skills
- Abillity to define assessment criteria and to collect and analyse data
- Responsibillity to work and to the co-workers



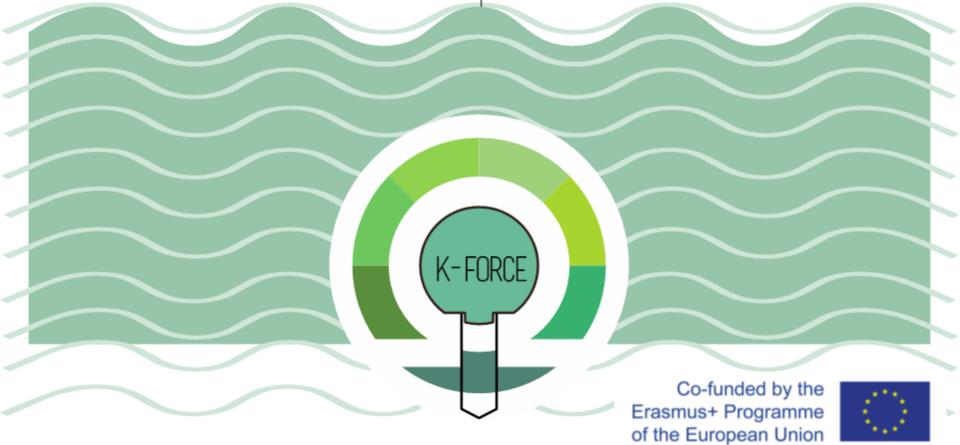


CONCLUSIONS

- University of Tuzla has small number of students 6 last year and 4 this year (Master students)
- Limited number to create groups for SCL approach
- So far preferred traditional and individual approach
- Most important outcome of SCL approach: satisfied student







Thank you for your attention

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