



*Date: 27.01.2020.*

*Place: Skopje*

# Knowledge **FO**r Resilient so**CI**ety

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

*University of Tuzla*



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



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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/programme 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.*



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*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 Zvezdan 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.*



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## ***COURSE TITLE: Community resilience to hazards***

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***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.*
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- *Teacher mentored students work*
  - *Task loads were even*
  - *All students were graded equally*



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# PAPER 1. FLOODS IN SERBIA 2014, CASE STUDY OBRENOVAC



Univerzitet u Tuzli  
Bosna i Hercegovina

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## POPLAVE U SRBIJI 2014. GODINE – STUDIJA SLUČAJA OBRENOVAC

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## Područja ugrožena u poplavama 2014. godine



## Organizaciona šema SVS



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

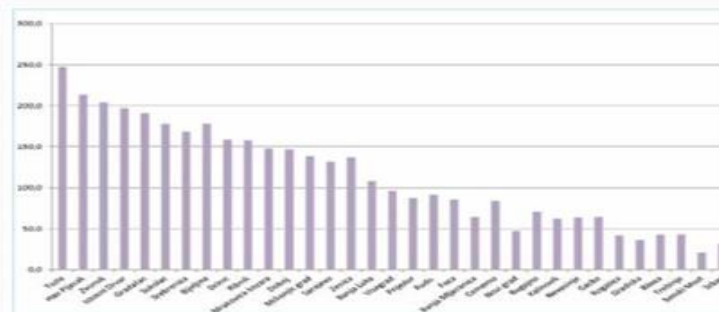




# PAPER 2: RESPONSE TO FLOODS IN BOSNIA 2014, ANALYSIS

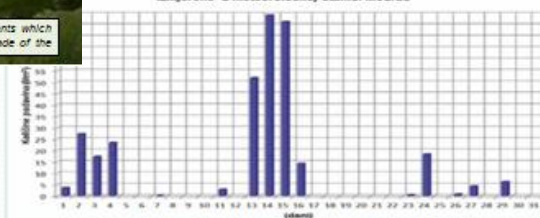


Period sa padavinama počeo je već u aprilu 2014. godine i nastavio u maju. Većina padavina pala je u periodu između 13. i 16. maja 2014., kao što je prikazano u Tabeli i Slici 2.



Slika 2: Ukupne količine oborina (mm) po gradovima u BiH, maj 2014.g.

Količine padavina u toku mjeseca maja 2014. godine na brani Modrac izmjerene u meteorološkoj stanici Modrac

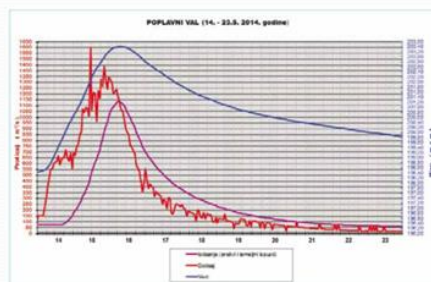


Slika 6: Količine oborina koje su izmjerene na meteorološkoj stanici Modrac



Slika 7: Brana Modrac sa vjetrove max. nivoa vodi (203.42 m n.m.)

PREGLED, PRIKAZI I ANALIZA POPLAVNOG VALA 2014.g. NA BRANI MODRAC



Slika 5: Nivogram-dinamičko odvijanje na brani Modrac (14-23.5.2014.g.)

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



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## **COURSE TITLE: RISK ANALYSIS IN DECISION 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.*



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# *COURSE TITLE: RISK ANALYSIS IN DECISION MAKING PROCESS*

## *LAB WORK AND GROUP WORK*





## *OUTCOMES*

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



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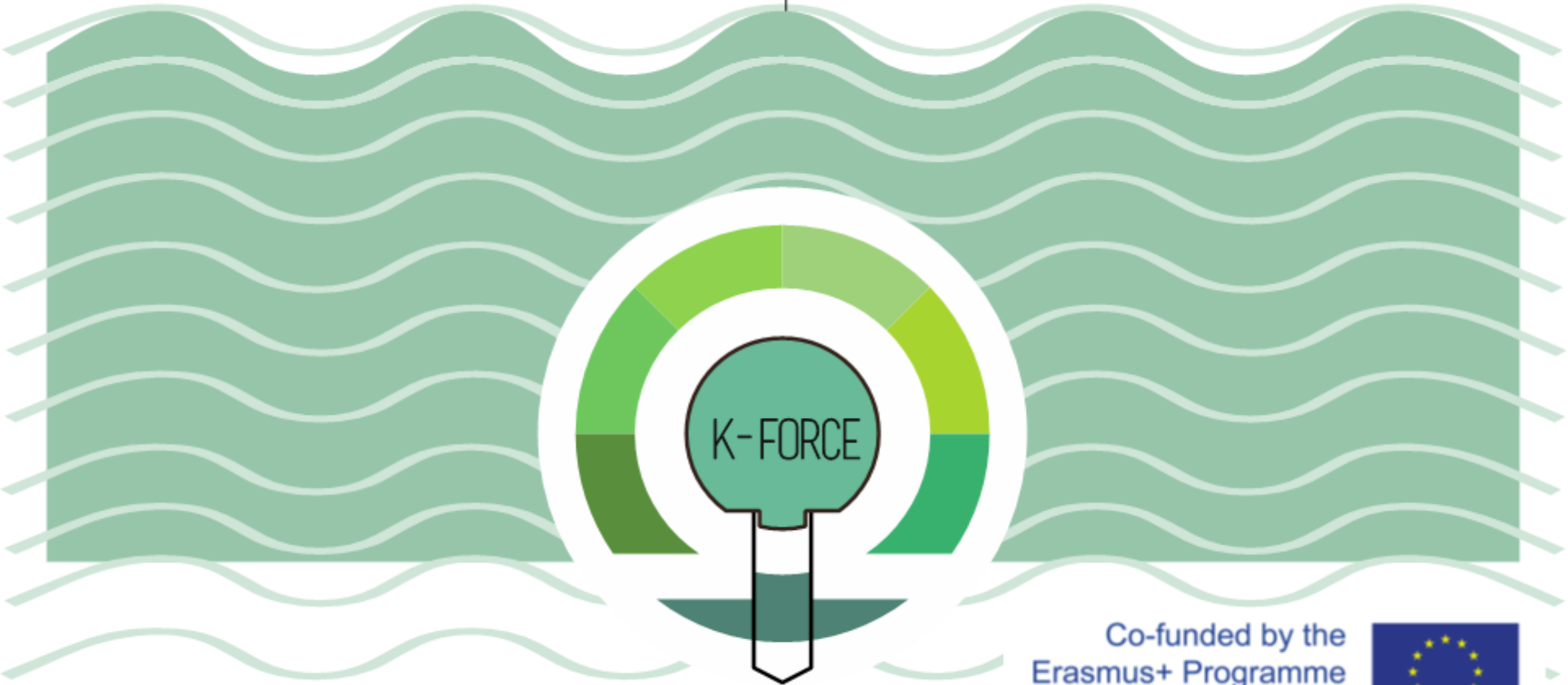
## CONCLUSIONS

- 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



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Thank you  
for your attention

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**Knowledge FOR Resilient soCiEty**