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# Knowledge FOr Resilient soCiEty

## Creating the Network of Knowledge Labs for Sustainable and Resilient Environments

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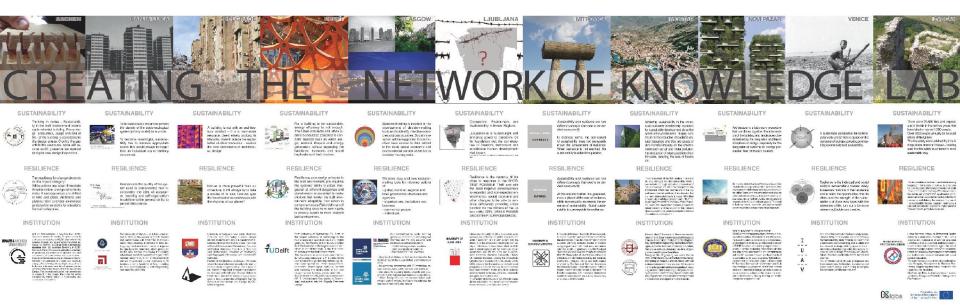


The project

**Creating the Network of Knowledge Labs for Sustainable and Resilient Environments** is capacity building action in the field of higher education, co-funded by the **Erasmus+ Programme** of the European Union.

KLABS is the educational platform which addresses two current and equally important challenges of urban and rural built environments in

Western Balkan – sustainability and resilience to climate change.



KLABS Coordinating University in Kosovska Mitrovica University of Ljubljana University of Strathclyde Università luav di Venezia Technische Universiteit Delft Rheinisch-Westfälisch Technische Hochschule Aachen University of Belgrade University of Banja Luka Džemal Bijedić University of Mostar State University of Novi Pazar Higher Technical School of Professional Studies in Zvečan

### Second cycle study program Architecture and Urbanism with academic title - Master in Architecture and Urbanism (MA) – 300 ECTS, at the University of Banja Luka, Faculty of Architecture, Civil Engineering and Geodesy.

Establishment of the institutional centre for sustainability and resilience - **Centre for sustainability and integrative design**.

Development of educational material – the state-of-the-art thematic 5 book series **Reviews of Sustainability and Resilience of the Built Environment for Education, Research and Design.** 

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UNIVERZITET U BANJOJ LUCI ARHITEKTONSKO-GRAĐEVINSKO-GEODETSKI FAKULTET

## ARHITEKTURA I URBANIZAM

Jednogodišnji studijski program drugog ciklusa ( 60 ECTS )

ARHITEKTURA I URBANIZAM

Akademska titula Master arhitekture i urbanizma - 300 ECTS

Broj studenata: 20

# Establishment of the institutional centre for sustainability and resilience - **Centre for sustainability and integrative design**



The Urban Café dedicated to exploring options, scenarios and strategies for Banja Luka's future development



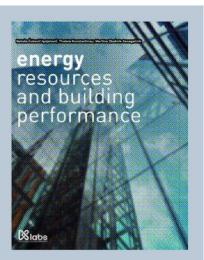


The first academic presentation of Centre for sustainability and integrative design at the UBL

## sustainability and resilience socio-spatial perspective

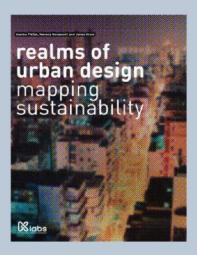
KLABS 1

sustainability and resilience: socio-spatial perspective



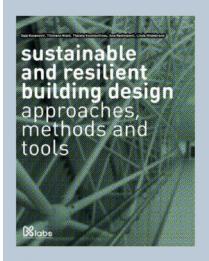
KLABS 4

energy: resources and building performance



KLABS 2

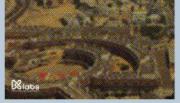
realms of urban design mapping sustainability



KLABS

sustainable and resilient building design: approaches, methods and tools

#### integrated urban planning territories, resources and directions



KLABS 3

integrated urban planning: directions, resources and territories

Reviews of Sustainability and Resilience of the Built Environment for Education, Research and Design While the graduate level university education on resilience of built environments **is not provided**, the **topics on sustainability** within the existing programmes educating engineers and architects **are sporadically present** and that in the form of courses detached from the curriculum backbone, which consequently negatively reflects on knowledge integration and its practical application in professional work and real life situations.

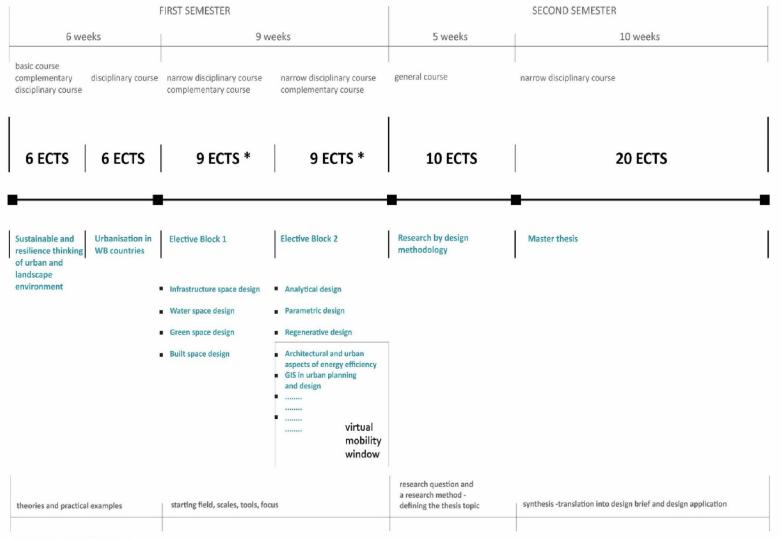
Additionally, many past generations of students didn't get any university education in these two highly important fields. The lack of knowledge leaves permanent damage and contributes to the increment of environmental, but as well social and economic risks. Obsolete education represents the aggravating factor for inclusion in European dimensions of education and labour.

## Emphasizing a trans-disciplinary and trans-scalar design oriented

**approach**, the programme equip students with theoretical and methodological knowledge that will allow them to think, analyze and design built environment in a comprehensive manner. This means understanding of relation between different spatial scales, social processes and natural context, as a precondition of sustainability and resilience.

The aim of the study programme is to deliver professionals who will understand the importance of an integrated approach to planning and design and are able to cooperate with professionals from a range of disciplines of the built environment, citizens and other actors.

Also, to deliver **socially responsible professionals** who are committed to cultural sustainability and social relevance of spatial design over desire to produce high quality aesthetic.



\* Elective courses min 25% or 15 ECTS

basic courses min 10%, complementary courses min 5%, general courses min 5%, disciplinary or specialist min 20%, narrow disciplinary min 20% close teaching - research studio work/project min 50%

The study programme is devoted to **reaffirmation of the architectural profession** in Western Balkan countries in the context of the challenges of our contemporary societies, spatial change dynamics and climate change.

The study programme is devoted to the **promotion and raising awareness of the importance of sustainability and resilience concepts** in national and local context of planning, design and rethinking architecture, cities, landscapes and territories.

But, also to bring these concepts to more operative professional level by introducing to students a wide range of techniques and tools for spatial assessment and analyses.

Master plan lokacije

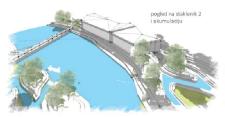


Novi prostori i pejzaži predgrađal



Dio sistema ostrva, mostova i šetališta nad priširenim koritom rijeke







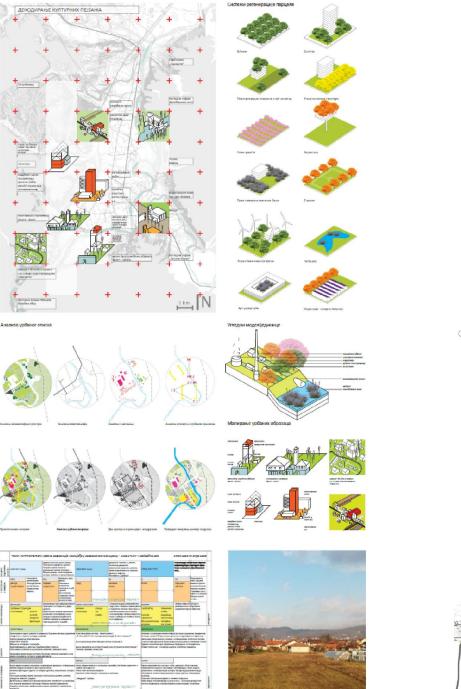
presjek kroz staklenik 2 i akumulaciju niz zaštitnih akumulacionih kanala (d<2,2m) glavna akumulacija utvrđena obala sa šetalištem glavna plantaža BWT biljaka isoka stakl. fasada nog karita (d<1,5m) niz drvenih platformi i stova nad akumulacijom komunikacije i servisni dio objekta za prećišćavanje voda interaktivna ostrva za rentanje

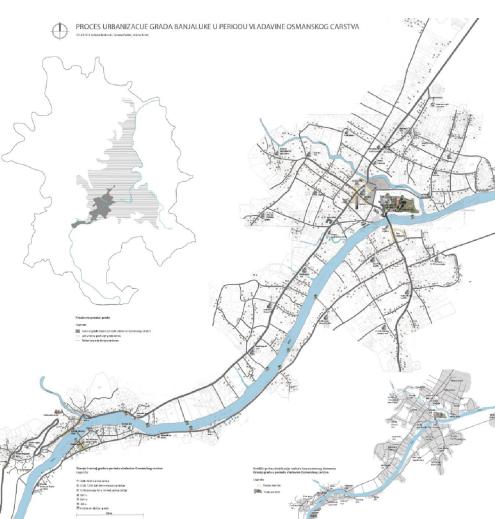
ijski program il ciklusa TEKTURA I URBANIZAM nastavnci: dr Malina Čvoro Imet: prostori i pejzaži voda dr Ognjen Šukalo student: Babić Nemanja 08MAU/17 Co-funded by the Erasmus+ Programme of the European Union

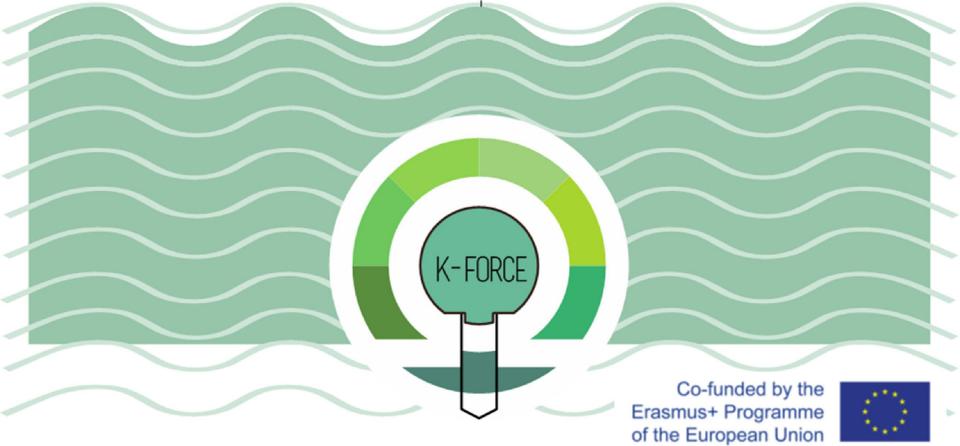
"Životni ciklus stambenog prostora" STUDENT Settine Berković 118 AU(2017



#### СИСТЕМИ РЕГЕНЕРАЦИЈЕ КУЛТУРНИХ ПЕЈЗАЖА НА ПЕРИФЕРИЈИ ГРАДА БАЊА ЛУКЕ







## Thank you for your attention nevena.novakovic@aggf.unibl.org

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