



*Date: June 26<sup>th</sup> 2017*

*Place: Copenhagen*

# Knowledge FOr Resilient soCiEty

## WP1 TASK 1.3 - DRM&FSE MPS CURRICULA

*University of Banja Luka  
Republic of Srpska, B&H*

*Logo of the  
institution*

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*The new Master Study Module of Study Program Civil Engineering*

***“Disaster Risk Management and Fire Safety”***

*Will be introduced on*  
***Faculty of Architecture, Civil Engineering and Geodesy, Banjaluka***



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**University of Banjaluka**

**Faculty of Architecture, Civil Engineering and Geodesy**

**Second-cycle of academic studies – CIVIL ENGINEERING**

**Master's studies, 60 ECTS**

- Structural engineering
- Hydrotechnical engineering
- Transportation engineering
- Geotechnical engineering
- Construction project organization and technology
- **Disaster risk management and fire safety**



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## OBLIGATORY COURSES

### 1. *Structural Modelling* (5 ECTS)

(existing subject on all five other modules on AGGF)

Teacher: **Gligor Radenkovic**

### 2. *Aseismic Design and Building* (5 ECTS)

(existing subject on all five other modules on AGGF)

Teacher: **Mato Uljarevic**

### 3. *Operational Research in Civil Engineering.* (6 ECTS)

(existing subject on all five other modules on AGGF)

Teachers: **Goran Cirovic, Dragan Nikolic**

### 4. *Assessment of the damaged buildings condition* (6 ECTS)

(existing subject on UNS - FTN, DRM&FSE master studies, *new subject*)

Teachers: **Vlastimir Radonjanin, Mirjana Malesev, Gordana Broceta**

5. Elective course 1 (4 ECTS)

6. Elective course 2 (4 ECTS)

TOTAL

30 ECTS



**1<sup>st</sup> SEMESTER**

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## **ELECTIVE COURSES**

**1. *Experimental analysis of constructions***  
(existing subject on all four modules except on Construction project organization and technology on AGGF)

Teachers: **Dragan Milasinovic, Valentina Golubovic-Bugarski**

**2. *GIS in Hydrotechnical practice***  
(existing subject on Hydrotechnical module on AGGF)

Teacher: **Dusan Jovanovic**

**3. *Application of GIS in Roads***  
(existing subject on Transportation module on AGGF)

Teacher: **Dusan Jovanovic**

**4. *Special Management problems in Civil Engineering***  
(existing subject on module Construction project organization and technology on AGGF)

Teachers: **Goran Cirovic, Dragan Nikolic**

**5. *Geohazards***  
(existing subject on Geotechnical module, but in 2<sup>nd</sup> semester, on AGGF)

Teacher: **Bojana Grujic**



**1<sup>st</sup> SEMESTER**

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## **ELECTIVE COURSES**

### **6. Bridges**

(existing subject on Structural and Transportation module on AGGF)

Teacher: **Dragan Milasinovic**

### **7. Concepts and principles of sustainability and resilience of the built environment**

(existing subject on Master study programme of Architecture and Urbanism on AGGF)

Teacher: **Brankica Milojevic**

### **8. Sustainability and Resilience of Infrastructure Systems**

(existing subject on Master study programme of Architecture and Urbanism on AGGF)

Teacher: **Tanja Trkulja**

### **9. Resistance of building structures and materials to fire**

(existing subject on UNS - FTN, DRM&FSE first cycle studies, **new subject** )

Teachers: **Mirjana Laban, Gordana Broceta, Sasa Cvoro, Stevo Borojevic**



**1<sup>st</sup> SEMESTER**

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1. Elective course 1 (7 ECTS)
2. Elective course 2 (7 ECTS)
3. Master Thesis (16 ECTS)

*\*all courses in 2<sup>nd</sup> semester are elective*

TOTAL  
TOTAL

30 ECTS  
30 ECTS

## ELECTIVE COURSES

### 1. *Design of fire alarm systems and fire extinguishing systems*

(joined subjects from first cycle studies at UNS - FTN, DRM&FSE master studies, *new subject*)

Teacher: Vinko Babic

### 2. *Risk Analysis in Decision-making Process*

(*mutual subject*, existing on UNS - FTN, DRM&FSE master studies, *new subject*)

Teacher: Mirjana Laban, Aleksandar Borkovic



2<sup>nd</sup> SEMESTER

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## ELECTIVE COURSES

### 3. *Financial Resilience to Hazards*

(*mutual subject*, existing on UNS - FTN, DRM&FSE master studies, *new subject* )

Teacher: **Dragan Nikolic**

### 4. *Defense from Floods*

(existing subject on Hydrotechnical module on AGGF)

Teacher: **Marina Babic-Mladenovic, Malina Cvoro**

### 5. *Roads Geotechnical problems*

(existing subject on Transportational module on AGGF)

Teacher: **Mato Uljarevic**

### 6. *Sanation of Timber, Steel and Masonry constructions*

(existing subject on Structural module on AGGF)

Teacher: **Vlastimir Radonjanin, Mirjana Malesev, Snezana Mitrovic**

### 6. *Sanation of Concrete Structures*

(existing subject on Structural module on AGGF)

Teacher: **Vlastimir Radonjanin, Mirjana Malesev, Gordana Broceta**

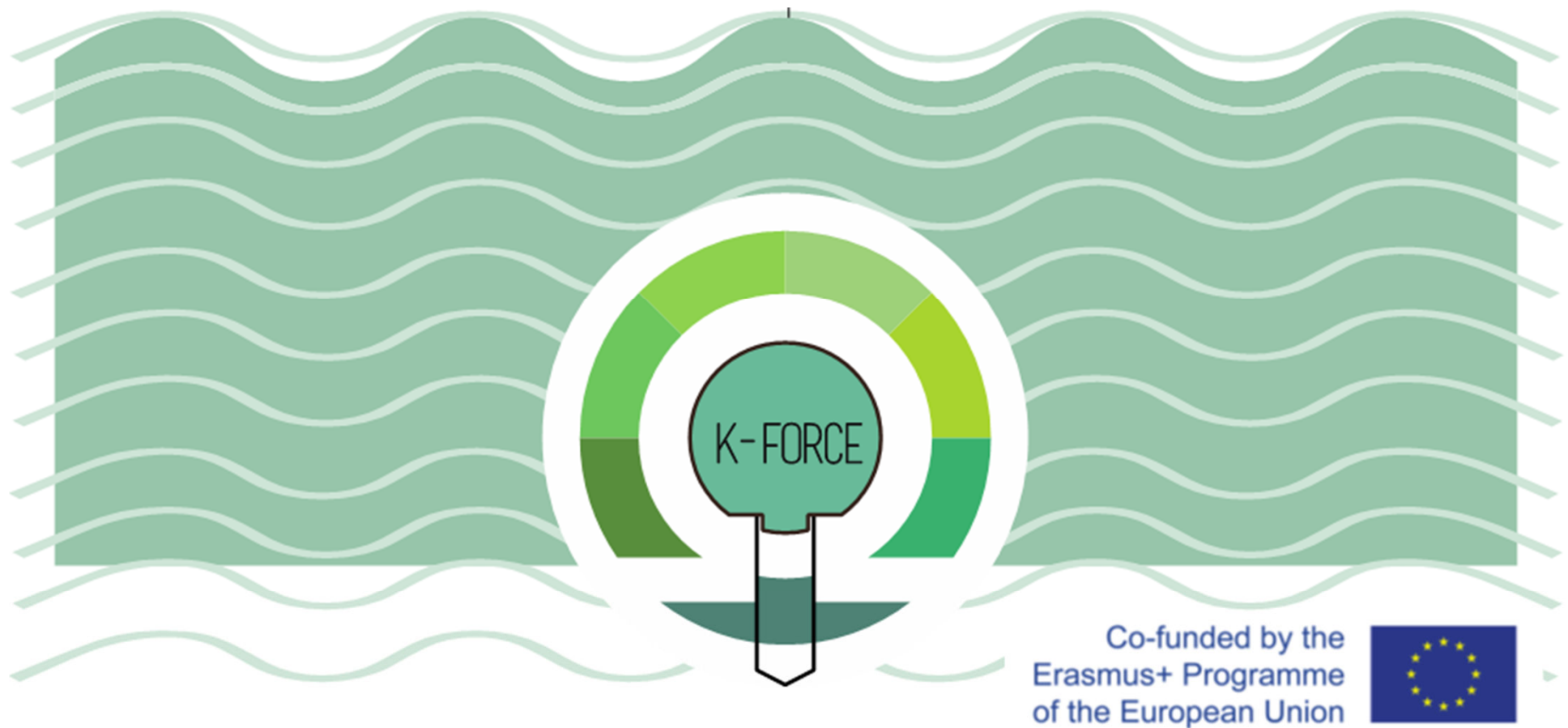


## 2<sup>nd</sup> SEMESTER

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Thank you  
for your attention

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**Knowledge FOR Resilient soCiEty**