



Date: June 26th 2017
Place: Copenhagen

Knowledge **FO**r Resilient so**CI**Ety

WP1 TASK 1.3 - DRM&FSE MPS CURRICULA

University of Banja Luka
Republic of Srpska, B&H

*Logo of the
institution*

Co-funded by the
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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, Banjaluca



Co-funded by the
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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



1st 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 2nd semester, on AGGF)

Teacher: **Bojana Grujic**



1st 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**



1st 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 2nd semester are elective*

TOTAL

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**



2nd 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**



2nd SEMESTER

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Thank you
for your attention

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Knowledge FOr Resilient soCiEty