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*Place: Aalborg*

# Knowledge FOR Resilient soCiEty

**WP1 TASK 1.3 - DRM&FSE MPS CURRICULA**

**WP1 TASK 1.4 - EQUIPPING EDUCATION ICT BASED LABORATORIES**

**WP1 TASK 1.4 ADD - PROCUREMENT PROCEDURE**

*University of Banja Luka*

*Faculty for Architecture, Civil Engineering and Geodesy in Banja Luka*

*Republic of Srpska, B&H*

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***Curricula for NEW DRM&FSE MODULE***  
***on Civil Engineering MP***  
***at Faculty for Architecture, Civil Engineering and***  
***Geodesy in Banja Luka***



## WP1 TASK 1.3 - DRM&FSE MPS CURRICULA

- Faculty of Architecture, Civil Engineering and Geodesy in Banja Luka (FACEGBL) has **three Study Programs** organized according to the tertiary study model (**4+1+3**)
- **Civil engineering** Master Program is organized in **5 Modules** :
  - **Structural engineering**
  - **Hydrotechnical engineering**
  - *Transportation engineering*
  - *Geotechnical engineering*
  - *Construction Management and Technology*
- *Modules activate according to the number of student and survey of students interest (minimum 5 students to activate Module)*



## WP1 TASK 1.3 - DRM&FSE MPS CURRICULA

- In scope of the ERASMUS+ K-FORCE Project the **new Module** will be developed in **Civil engineering** Master Program:
  - Structural engineering
  - Hydrotechnical engineering
  - Transportation engineering
  - Geotechnical engineering
  - Construction Management and Technology
  - **Disaster risk management and fire safety**
- New Module will be imbed in the **field of Civil engineering**, and after completion, student acquires title:

### **Master of Civil Engineering**

### **- Disaster risk management and fire safety**



## WP1 TASK 1.3 - DRM&FSE MPS CURRICULA

- *New Module* must have 65% same curricula as the other modules on the existing Civil engineering Master studies on FACEGBL
- If else, then *new Module* must become a *new Master Program*, from which it follows long, time-consuming, *accreditation* procedure
- If new module is 65% same as existing, the new curricula only must be *pre-licenced* (much shorter procedure)
- *Existing Modules* have many Subjects that deals with problems and theirs solutions *in the field of DRM&FSE*, e.g. earthquakes, floods, landslides, etc.
- New curricula must use as many existing Subjects, with adding a *new Subjects*, to expand students knowledge, skills and competencies much detailed in the field of DRM&FSE



## WP1 TASK 1.3 - DRM&FSE MPS CURRICULA

1. **Obligatory course 1** - Structural Modelling (5 ECTS)
2. **Obligatory course 2** - Aseismic Design and Construction (4 ECTS)
3. **Obligatory course 3** - DRM&FSE (7 ECTS)
4. **Obligatory course 4** - DRM&FSE (6 ECTS)
5. **Elective course 1** (4 ECTS)
6. **Elective course 2** (4 ECTS)

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**TOTAL**

**30 ECTS**

### **Elective Course title**

1. *Experimental analysis of structures*
2. *Analysis in rock engineering*
3. *Design of fireproof systems (FME)*
4. *Design of stationary systems for fire proofing (FME)*
5. ....
6. ....



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

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## WP1 TASK 1.3 - DRM&FSE MPS CURRICULA

1. **Elective course 3** (7 ECTS)
2. **Elective course 4** (7 ECTS)
3. **Master thesis** (16 ECTS)

**TOTAL**

**30 ECTS**

### **Elective Course title**

1. *Damage Repair of Timber, Steel and Masonry Structures*
2. *Durability and assessment of Concrete structures*
3. *Flood Management*
4. *Integral maintenance of water resource*
5. *Risk Management of Civil Engineering Projects*
6. *Special construction technology*
7. *Geohazards*
8. *.....*



**2<sup>nd</sup> SEMESTER**

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## WP1 TASK 1.4 - EQUIPPING EDUCATION ICT BASED LABORATORIES

# *Educational ICT Laboratory for b-learning at FACEGBL*



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- *Faculty of Architecture, Civil Engineering and Geodesy in Banja Luka - FACEGBL is located at 2 location with 5 classroom at each location*
- *University of Banja Luka has special agreement with “Institute for Urbanism, Civil Engineering and Ecology of Republica of Srpska”, where FACEGBL has already settled laboratory equipment from other Projects*
- *FACEGBL has new building under construction where will all labs and classrooms be settled, in the future*



# ICT – at FACEGBL



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# LAB – at IUCEERS

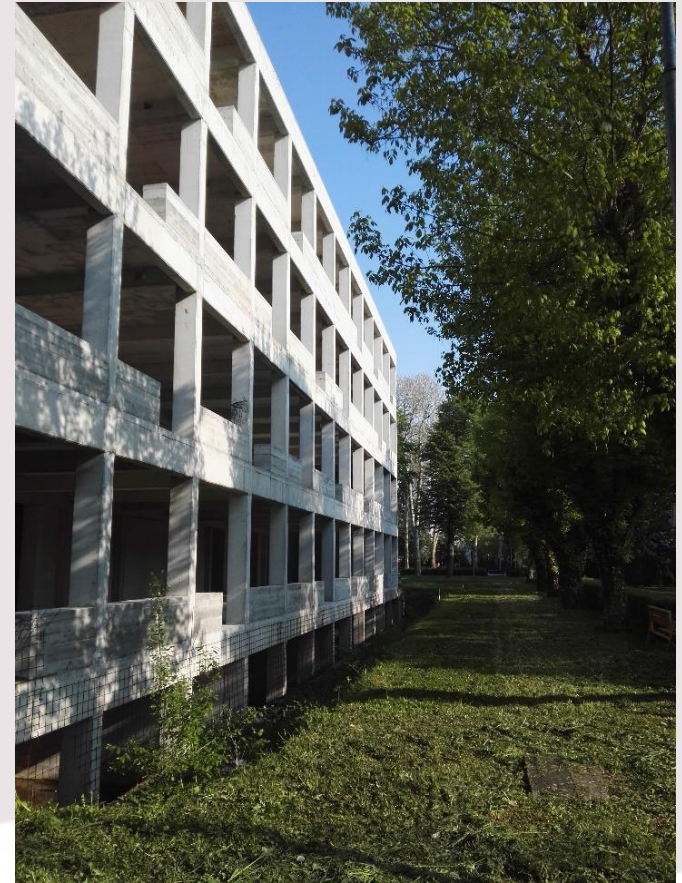


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## ***New building FACEGBL***



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- *Equipment from K-FORCE Project, which is planned to be used for teaching, doing Master thesis projects, experiments for science and research papers writing, etc. is divided into two major groups:*

**ICT** (desktop computers, laptops, projectors, cameras, e-book readers, TV screens, external HDD, printers, etc.)

*ICT lab will be settled in one of the classrooms at **FACEGBL***

**LAB** (precise scales, exicators, pycnometer, microscopes, hardness meters, distance meters, calipers, accelerometers, etc.)

*LAB equipment is planned to be settled in premises of **IUCEERS***





## WP1 TASK 1.4 - EQUIPPING EDUCATION ICT BASED LABORATORIES

# *Procurement procedure*



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- *Procedure of Public Procurement for BiH beneficiaries will be organized by [University of Banja Luka \(UBL\)](#) with the signed approval from [University of Tuzla \(UTZ\)](#)*
- *Public Procurement will be divide on [minimum 2 Lots](#), in jointly tendering procedure - [UTZ equipment](#) and [UBL equipment](#),*
- *There can be need for more than 2 Lots for insuring better purchase condition of two different types of equipment – [LAB](#) and [ICT](#)*
- *After complaining time without complains is past, Rector of the UBL sign contracts with firm with [most favourable bid](#) (financially)*
- *Equipment [delivering and payment](#) will be divided for UTZ and UBL*





- *Open procedure* is obligatory, all interested economic operator may submit an application, which means there is no pre-selection of interested candidates
- Procedure and documents are public at <https://www.ejn.gov.ba>
- Usual 28 days for *national* and 40 days for *international* Procurement
- 7 day max for decision of *most favourable bid*
- 15 day is a deadline for *complaining* on decision
- All Procurement procedure, including *settlement* of equipment, will last approximately **4 month** from the contract notice in the Official Journal or on site <https://www.ejn.gov.ba>







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**Thank you  
for your attention**

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**Knowledge FOR Resilient soCiEty**