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Knowledge **FOR** Resilient so**Ci**Ety

EMPLOYMENT OPPORTUNITIES/OPTIONS AFTER COMPLETING MASTER/PHD IN DRM&FSE

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

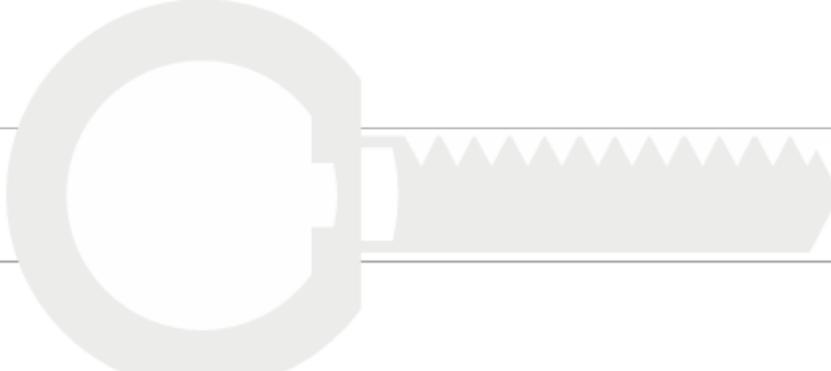
*University of Tuzla
Faculty of Mining, Geology and Civil
Engineering*

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EMPLOYMENT OPPORTUNITIES/OPTIONS AFTER COMPLETING MP/PHD IN DRM&FSE

*In Republic of Srpska, for obtaining license to perform professional work in the field of Civil Engineering, **the Ministry of Physical Planning, Civil Engineering and Ecology** is competent.*

*Based on the Rulebook on the conditions for issuing and withdrawing licenses to participants in building, in accordance with the provisions of the **Law on spatial planning and building**, the competent Ministry can issue a civil engineer in Republic of Srpska, the following licenses:*





EMPLOYMENT OPPORTUNITIES/OPTIONS AFTER COMPLETING MP/PHD IN DRM&FSE

Making of spatial planning documents

Making of technical documentation depending on the interest and direction or department for the person seeking the license as follows:

- constructive phase and surveillance*
- hidrotechnical phase and surveillance*
- transportation works phase and surveillance*

Supervision of technical documentation depending on the interest and direction or department for the person seeking the license

Building of objects depending on the interest and direction or department for the person seeking the license for civil engineering works on objects :

- constructive phase and surveillance*
- hidrotechnical phase and surveillance*
- transportation works phase and surveillance*





EMPLOYMENT OPPORTUNITIES/OPTIONS AFTER COMPLETING MP/PHD IN DRM&FSE

Civil Engineer(240 or 300 ECTS) submits a license application. The required technical documentation to obtain a license is:

- Diploma of acquired education and orientation
(constructive, hydrotechnical or transportation works phase)*
- Certificate of passed professional examination depending on the orientation
(constructive, hydrotechnical or transportation works phase)*
- Certificate - Reference list on participation in the preparation of technical documentation, or in the building process:
for at least five objects with the exact name and the year of construction*
- Confirmation of professional experience in the required field*





*When the License for designing and building of objects is
acquired (big or small license), Civil Engineer
(240 or 300 ECTS)
is not obligated
to attend seminars and/or courses for improvement of skills
in order to preserve the license.*



EMPLOYMENT OPPORTUNITIES/OPTIONS AFTER COMPLETING MP/PHD IN DRM&FSE

*Current situation is, that a Civil Engineer with completed **I cycle of studies (4 years study - 240 ECTS)** can obtain license for designing and building of object of **highest level** (big license) without completing Master studies.*

*Also Civil Engineer with completed **I cycle of studies (3 years study - 180 ECTS)** can obtain license for designing and building of object of **smaller level** (small license).*



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**EMPLOYMENT OPPORTUNITIES/OPTIONS
AFTER COMPLETING MP/PHD IN DRM&FSE**

Faculty of Architecture, Civil Engineering and Geodesy of University of Banja Luka **has initiated a change of current law**, so that the license for designing and building of object of **highest level** (big license) can obtain only

**MASTER OF CIVIL ENGINEERING
(300 ECTS)**

In that case Civil Engineer (**240 ECTS**) can obtain only licence license for designing and building of object of **smaller level** (small license).



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**EMPLOYMENT OPPORTUNITIES/OPTIONS
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*In Republic of Srpska ,the **Ministry of internal affairs** is competent for obtaining authorization for doing professional works on jobs for*

FIRE SAFETY

Authorization for doing jobs on Fire Safety can obtain a person with technical direction and with university degree or university education (180 ECTS ili 240 ECTS), who pass the

TECHNICAL EXAM FOR CONDUCTING JOBS ON FIRE SAFETY



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**EMPLOYMENT OPPORTUNITIES/OPTIONS
AFTER COMPLETING MP/PHD IN DRM&FSE**

*After completion of studies of master module on Faculty of Architecture,
Civil Engineering and Geodesy of University of Banja Luka*

DISASTER RISK MANAGEMENT AND FIRE SAFETY

*Student acquires diploma **Master of Civil Engineering – 300 ECTS –
Disaster risk management and fire safety***

*Student acquires knowledge and competence which allows him to do
professional work in this area, with accent on **earthquakes, floods, land
slides and fires** which are most frequent (natural) disasters in Bosnia and
Herzegovina.*



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**EMPLOYMENT OPPORTUNITIES/OPTIONS
AFTER COMPLETING MP/PHD IN DRM&FSE**

Master of Civil Engineering – 300 ECTS –

Disaster risk management and fire safety

after completing Master studies and fulfilling conditions shall be entitled to receive the **license for designing and building objects of the higher level (big license)**.

Master of Civil Engineering – 300 ECTS –

Disaster risk management and fire safety

After completing the **technical exam for conducting jobs on fire safety** shall be entitled to receive the authorization for doing professional work on **FIRE SAFETY** jobs.



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Master of Civil Engineering – 300 ECTS –
Disaster risk management and fire safety

has competences for doing:

- Designing in area of protection from disaster events*
- Designing plans of fire safety*
- Evaluation of damage in insurance*
- Entrepreneurship in area of Fire safety jobs*
- Educational institutions, Designing organizations*





**Master of Civil Engineering – 300 ECTS –
*Disaster risk management and fire safety***

can be employed:

-  *Ministry of internal affairs*
-  *Public institution, Private firms, State administration*
-  *Insurance companies*
-  *Nongovernmental sector*

As well as all the job positions within Civil Engineering profession.





Master of Civil Engineering – 300 ECTS –

Disaster risk management and fire safety

After completing master studies on Study program of Civil Engineering on Faculty of Architecture, Civil Engineer and Geodesy, can do all types of jobs within his profession as well as specific types of jobs, that his education in this master study module provides him.

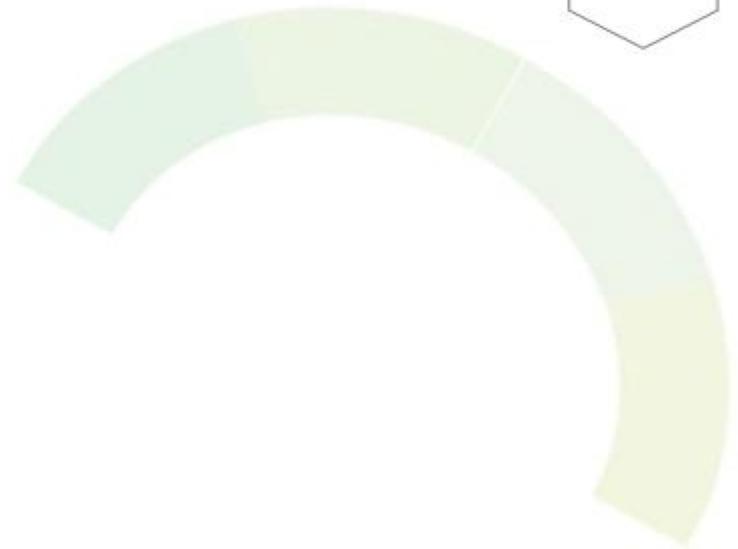
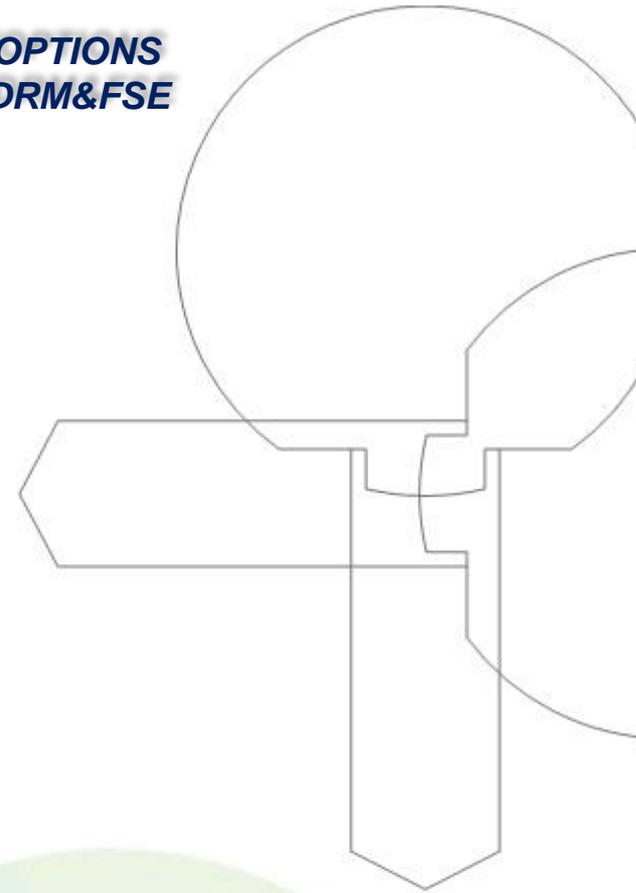
*This is a big advantage and this master study module **gives competitiveness in employment.***





EMPLOYMENT OPPORTUNITIES/OPTIONS AFTER COMPLETING MP/PHD IN DRM&FSE

***University of Tuzla
Faculty of Mining, Geology and Civil
Engineering***





Master of Civil Engineering – 300 ECTS

Professional Competencies:

- Understanding the construction process, designing and dimensioning methods,
- design ability in the field of construction
- Understanding of professional practices related to the construction industry,
- Understanding the process of building, transferring knowledge, methods, materials, systems,,
- Understanding of General Phenomena and Problems Related to Construction with Knowledge of boundary conditions of cooperation with other sciences,
- design, execution and maintenance of construction facilities and systems from the standpoint bearing capacity, stability, safety, environmental protection and price





Works for which a Master of Civil Engineering is qualified:

- self-managing construction site of all types of construction and construction works,
- construction of construction projects and necessary technical documentation of all kinds less and medium-complex construction and construction works,
- construction of construction projects and necessary technical documentation, testing and control Quality of construction works and materials of complex constructions and construction works from Construction areas,
- co-ordination of complex construction documentation,
- participation in studies and monitoring of investment works in civil engineering,
- education of construction industry





Master of Mining – 300 ECTS

Professional Competencies:

- Exploration in the field of mineral exploitation of mineral resources and construction of mining facilities
- Different cross-sections,
- Determination of filling technology of excavated space in underground exploitation,
 - Ability to optimize technological processes in underground exploitation,
 - Increasing in underground exploitation,
 - Increase of new knowledge in development and methods of scientific-research work
- Integration of knowledge and dealing with complex problems in underground exploitation.





Works for which a Master of Mining is qualified:

- Understanding legal and professional practices in underground exploitation.
- Providing forensic research in underground exploitation.
- Exploration in underground exploitation.
- Reaching research into underground exploitation.
- Samostal planning and carrying out activities in underground exploitation.
- Critical rating of research and academic work at the highest level in the field of orientation.
- Evaluation of different methodologies, forming of critical thinking and offering alternative solutions.





Master of Geology – 300 ECTS

Competences and skills acquired by qualification (diploma)

Upon completion of the second cycle of studies, the Geology study program, the student gains scientific knowledge

Knowledge in the profession, based on the results of previous scientific research from the area of natural and technical sciences in the field of geology on which they are based.

The following skills and competences depending on the scientific field to which it belongs the subject of Final work.





Master of mining for borehole exploitation – 300 ECTS

Professional Competencies:

- design and construction of investigative, structural, technical and exploitative wells, as well as bushes of special purpose,
- Conducting works on drilling, production and overhauling on land and below the water surface,
- design and construction of wells for exploitation of groundwater,
- drilling of all types of solid mineral raw materials,
- exploration, design, acquisition, preparation, transportation and storage of oil, gas and geothermal water,
- design, exploitation and processing of petroleum, gas, gas - condensate and geothermal deposits,
- Designing and building waste storage that is undercover in the underground room through the wells,
- breeding and use of hydrocarbons and management of gases





Master of Security and Assistance - 300 ECTS

Professional Competencies:

- research, design, development and application of scientific and professional methods
Related to safety and work-related assistance in all branches of industry and mining;
- Planning, designing and supervision in the construction of mining, mechanical and electrical engineering
Construction objects, appliances, plants and other equipment related to Technological process;
- conducting research and enhancing the security methods in technology
Processes in surface and underground exploitation of mineral raw materials;
- conducting research and enhancing the security methods in technology
Processes in the food industry;
- conducting research and enhancing the security methods in technology
Processes in the construction industry and the metal industry,
- design of fire protection and explosion





Disaster risk management and fire safety engineering – 300 ECTS

Professional Competencies:

- Natural risks assessment, prevention and remediation plans (floods, earthquakes, forest fires)
- Geotechnical Risk assessment, prevention and rehabilitation (land slides, dams,)
- Risk assessment, prevention and remediation plans in mining sector
- Risk assessment and protective measures in thermal energy sector
- Fire protection
- Assessment and rehabilitation of damaged buildings
- Knowledge of related legal framework





EMPLOYMENT OPPORTUNITIES/OPTIONS AFTER COMPLETING MP/PHD IN DRM&FSE

*After completing master studies on **Disaster risk management and fire safety engineering** students will be able to do all types of jobs within his profession as well as specific types of jobs, that his education in this master study module provides him and in the areas of their matriculation profession that gravitate to the area of DRM&FSE.*





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Thank you
for your attention

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