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Presentation of draft UNSA curricula

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Rijeka/ 20.09.2019.

This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

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1. Introduction

The University of Sarajevo, Faculty of Civil Engineering will innovate existing programme studies in Water and Environmental Engineering with:
- improving existing courses related to water resources management and
- add a new courses related to water resources management.

We intend to achieve the above in the master study program in Water and Environmental Engineering (second cycle qualifications).

2. Programme description for master academic studies

Programme title:/	CIVIL ENGINEERING MASTER -WATER AND ENVIRONMENTAL ENGINEERING
Level:	Master academic studies
EQF level:	7th level
Academic title:	Graduated Civil Engineer - Diploma Engineer in Civil Engineering /Master in Civil Engineering -300 ECTS
Language:	Bosnian
Duration:	2 years – 4 semesters
ECTS credits:	120 ECTS
Knowledge:*	Highly specialized knowledge, some of which is at the forefront of knowledge in a field of work or study, as the basis for original thinking and/or research. Critical awareness of knowledge issues in a field and at the interface between different fields.
Skills:*	Specialized problem-solving skills required in research and/or innovation in order to develop new knowledge and procedures and to integrate knowledge from different fields.
Responsibility and autonomy:*	Manage and transform work or study contexts that are complex, unpredictable and require new strategic approaches; take responsibility for contributing to professional knowledge and practice and/or for reviewing the strategic performance of teams.

Table 1. Master Study program and distribution of courses per semester - existing courses, existing courses which will be update through SWARM project and new courses which will be introduce through SWARM project

No.	Year/Semester	Course Title	M(andatory) /E(lective)	Classes	ECTS
1	I/I	Matematic III	M	3+2	6
2	I/I	Hydrology	M	3+2	6
3	I/I	Water supply	M		
4	I/I	Hydraulic	M		
5	I/I	Water treatment of drinking water	M		

No.	Year/Semester	Course Title	M(andatory) /E(lective)	Classes	ECTS
1	I/II	Water resources and systems	M	3+2	6
2	I/II	Sewage water system	M	3+2	6
3	I/II	Hydrogeology	M	3+2	6
4	I/II	Environmental Protection	M	3+2	6
5	I/II	Solid Waste Management	E	3+2	6
6	I/II	Hydrodinamic of ground water	E	3+2	6
7	I/II	Stohastic hydrology	E	3+2	6
8	I/II	Integral Water Resources Management	E	3+2	6

No.	Year/Semester	Course Title	M(andatory) /E(lective)	Classes	ECTS
1	II/III	Project management	M	2+2	5
2	II/III	Hidroenergetika	M	3+2	7
3	II/III	River Engineering	M	3+2	6
4	II/III	Water Protection	M	3+2	6
5	II/III	Treatment of waste water	E	3+2	6
6	II/III	Numeric hydraulic	E	3+2	6
7	II/III	Melioration system	E	3+2	6

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Thank you for your attention!