

Annex A:

Courses MSc UNICAL Environmental engineering

Semester	Course Name	Module	ECTS	Language
Autumn	Territorial planning		6	English*
Autumn	Design of structures in seismic areas		9	English*
Autumn	Energy from renewable sources		9	English*
Autumn	Electrical systems		6	English*
Autumn	River protection	Soil conservation	6	English*
Autumn	Flood risk analysis and management	Soil conservation	9	English*
Autumn	Design of coastal and river structures	Soil conservation	6	English*
Autumn	Planning actions for water safety	Environmental protection	6	English*
Autumn	Processes for pollutants abatement and municipal solid wastes treatment	Environmental protection	9	English*
Autumn	Remediation of contaminated sites	Environmental protection	6	English*
Spring	Hydraulic constructions for sustainable development		9	English*
Spring	Hydrometeorological and coastal risk forecasting systems		9	English*
Spring	Operating tools for hydraulic and environmental studies		6	English*
Spring	Sustainable water management		6	English*
Spring	Dynamics of slope and fluvial processes	Soil conservation	9	English*
Spring	Subsurface hydrology	Environmental protection	9	English*
TBA**	Applied geology	(Elective)	6	English*
TBA**	Noise and electromagnetic pollution	(Elective)	6	English*
TBA**	Environmental law	(Elective)	6	English*
TBA**	Ecological risk mitigation	(Elective)	6	English*

TBA**	Reale estate appraisal	(Elective)	6	English*
TBA**	Analysis and environmental assessment	(Elective)	6	English*
TBA**	Satellite remote sensing	(Elective)	6	English*
Autumn/Spring	Master thesis ***		18	English

English* - with less than 5 foreign students the lectures are given in form of consultations, while practicum and seminars are done in English language

TBA** - Elective course may be held either in the autumn or in the spring semester, depending on the demand of the foreign students

Master thesis*** - is written in English language under supervision of two mentors, one from each institutions

Courses MSc UL Water Science and Environmental Engineering

Semester	Course Name	Module	ECTS	Language
Autumn	Hydraulic modelling		8	English*
Autumn	Hydrological modelling		6	English*
Autumn	Drinking water supply and treatment		8	English*
Autumn	Project management		4	English*
Autumn	Basics of spatial sociology		3	English*
Autumn	Urban drainage and cleaning of waste water	Environmental Engineering / Hydraulic Engineering	8	English*
Autumn	Water management systems	Environmental Engineering	4	English*
Autumn	Torrent, erosion, rockfall and avalanche control	Environmental Engineering	4	English*
Autumn	Mathematical modelling of environmental processes	Environmental Engineering	5	English*
Autumn	Meteorology	Environmental Engineering	3	English*
Autumn	Spatial planning for flood protection	Flood Risk Management	5	English
Autumn	Socioeconomical assessment of flood risk	Flood Risk Management	5	English
Autumn	Torrent, erosion, rockfall and avalanche control	Flood Risk Management	4	English*
Autumn	Numerical methods in fluid dynamics	Flood Risk Management	6	English*
Autumn	Environmental technologies	Flood Risk Management	4	English*
Autumn	Hydraulic structures	Hydraulic Engineering	8	English*
Autumn	Water management systems	Hydraulic Engineering	4	English*
Autumn	Hydroelectric power	Hydraulic Engineering	4	English*
Spring	River engineering		8	English*
Spring	Drainage and irrigation		6	English*
Spring	Water protection		4	English*
Spring	Open sea and coastal area		4	English*

Spring	Environmental geotechnics		5	English*
Spring	Remote sensing in environ. civil eng.		4	English*
TBA**	Slope stabilisation	(Elective)	4	English*
TBA**	Hydraulic machines and devices	(Elective)	4	English*
TBA**	Water policy	(Elective)	4	English*
TBA**	Decision support systems in water management	(Elective)	5	English*
TBA**	Landscape management	(Elective)	4	English*
TBA**	Introduction to research work	(Elective)	4	English*
TBA**	Project in infrastructural systems	(Elective)	4	English*
TBA**	Selected topics from mathematics III	(Elective)	4	English*
TBA**	Ecohydrology	(Elective)	4	English*
TBA**	Geotechnics of infrastructural facilities	(Elective)	6	English*
Autumn/Spring	Master thesis ***		30	English

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