

Faculty of Geotechnical Engineering (Varaždin)

CONTACT AND ADDRESS

University of Zagreb Faculty of Geotechnical Engineering
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FACTS & FIGURES

DEPARTMENTS: 4
CHAIRS: 4
TEACHING STAFF: 32
NON-TEACHING STAFF: 27
STUDENTS: 350

INTERNATIONAL RELATIONS

Associate Professor Aleksandra Anić Vučinić, PhD, IRO coordinator
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Assistant Professor Anita Pticek Siročić, PhD, ECTS coordinator
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INSTITUTIONAL PROFILE

The Faculty of Geotechnical Engineering is one of two faculties of the University of Zagreb situated in the town of Varaždin. The Faculty offers a three-year (six-semester) bachelor's degree programme in Environmental engineering, and a two-year Master's programme in Environmental engineering. Environmental engineering is an interdisciplinary field of study that involves the applications of natural sciences, geology, hydrology, and civil engineering principles to the problems connected with engineering behaviour of earth materials, water management, and environmental protection. Accordingly, in the second cycle students can choose between the Geoenvironmental Engineering module, Water management module, and Environmental management module.

PROGRAMME EMPHASIS

The Bachelor programme of Environmental engineering has 180 ECTS credits. The curriculum comprises environmental aspects of geotechnical and hydrotechnical engineering, and environmental protection measures and procedures for the remediation of soil, water and air pollution, appropriate to the engineering study at the bachelor level. A special emphasis is given to the laboratory and on site teaching in order to acquire knowledge and skills in the sampling and analysis of air, soil, water and waste. The programme will teach students to recognize and describe various problems in environmental engineering and to develop competencies to apply their knowledge in practice.

The Master programme of Environmental Engineering has 120 ECTS credits and it comprises the courses in the Geoenvironmental Engineering, Water management and Environmental management. The students who have completed the 1st cycle programme of Environmental Engineering or any other comparable programme can apply for the admission. During the studies, students gain advanced level of knowledge and skills in specific areas of environmental engineering. The graduates will develop competencies to identify, analyze and solve various problems in environmental engineering and to apply their knowledge in practice.

CAREER PROSPECTS

The Bachelor programme ensures the adequate preparation for the continuation of the education at the master level as well as practical competencies needed to start a career as a bachelor of engineering. The Master programme of Environmental Engineering ensures the adequate competencies for graduates to start successfully their professional career and to continue their professional development. Environmental engineering and geoenvironmental engineering offer job opportunities in public sector and in private companies specializing in geotechnical engineering, hydrotechnical engineering and environmental protection.

RESEARCH ORIENTATION

Faculty research areas include water resources, groundwater protection, geotechnical aspects of landfills, extraction and mining, and other environmental topics connected with soil, air and water. Practical and scientific research is conducted in the Geotechnical laboratory, the Laboratory of Environmental Geochemistry and the GIS lab where students gain practical experience necessary for their future profession. The Faculty of Geotechnical Engineering was involved in the preparation of the joint doctoral study programme „Geoenvironmental Engineering and Water Management“, which started in the academic year 2012/13.

STUDY PROGRAMMES

UNDERGRADUATE STUDY PROGRAMMES

BACHELOR'S STUDY PROGRAMMES	DURATION (semesters)	ECTS	LANGUAGE OF INSTRUCTION
Environmental Engineering	6	180	Croatian

GRADUATE STUDY PROGRAMMES

MASTER'S STUDY PROGRAMMES	DURATION (semesters)	ECTS	LANGUAGE OF INSTRUCTION
Environmental Engineering	4	120	Croatian
Modules:			
Geoenvironmental Engineering			
Water Management			
Environmental Management			