

Expenses and Financing

The master's degree program in Water Engineering is subject to charges. The amount is calculated to cover all costs associated with attending the program and participating in program activities. It does not include housing costs. But there will be offered scholarships for qualified applicants.

For updated information on tuition, fees and scholarships, please visit our website.

Application and Admission

To enroll in the master's degree program, students are required to apply.

Applicants for the master's degree program in Water Engineering are required to submit the application form.

For information on application and admission, please visit our website.

Location and Daily Life

El Gouna, located 22 km north of Hurghada International Airport, is a town located on a man-made lagoon on Egypt's Red Sea coast. With its sandy beaches and balmy climate, superb infrastructure and award-winning architecture, El Gouna is a stunning location, drawing tourists from all over the world and home to a vibrant expatriate community of more than 15,000 permanent international residents.

The new campus was built by Orascom Hotels and Development (OHD) and extends over 10,000 m² of usable space. It contains a large lecture hall, a library and seven brand-new seminar and laboratory buildings, including a facility dedicated to experiments and research in the master's degree program in Energy Engineering.

Housing is available at student apartments located near the TU campus at affordable rents. Student housing is managed by TU Berlin's partner Orascom Hotels and Development (OHD).

Contact Details

Technische Universität Berlin
Campus El Gouna
Secr. CAR-B2
Carnotstr. 1A
10587 Berlin | Germany

info@campus-elgouna.tu-berlin.de
www.campus-elgouna.tu-berlin.de

We bring TU Berlin to you!

CAMPUS EL GOUNA

Technische Universität Berlin
Germany



Water Engineering Master's Degree Program





1st Semester	2nd Semester	3rd Semester	4th Semester
Water Supply and Sanitation 6 credits	Water Sanitation II 3 credits	Industrial Waste-water Treatment 4 credits	Master's Thesis 27 credits
	Water Supply II 3 credits		
Water Chemistry 3 credits	Water Biology 3 credits	Field Hydrogeology 4 credits	
Engineering Hydrology 3 credits	Applied Hydrogeology 3 credits	Water Economics 4 credits	
Basic Hydrogeology 6 credits	Water and Wastewater Transport 6 credits	Excursions in Germany 6 credits	
Hydraulics I 6 credits	Environmental Hydraulics 3 credits	Integrated Project II 6 credits	
Integrated Project I 6 credits	Internship 6 credits	Tutorial 3 credits	
	Intercultural Communication 3 cr.		

Program Curriculum

The master's degree program in Water Engineering is divided into the following study areas:

Water Treatment	22
Water Science	22
Hydro-Engineering Infrastructure	15
Interdisciplinary Studies and Intercultural Competence	28
Internship	6
Master's Thesis	27
	120 credits

Master's degree program in Water Engineering

The master's degree program in Water Engineering at Technische Universität Berlin offers advanced education for students and young professionals with a prior bachelor's degree or equivalent academic qualifications in engineering or natural sciences (focusing on environmental studies). Students graduate from the program with an official master's degree from Technische Universität Berlin (TUB) in Water Engineering. Developed on a modular basis, this master's degree program was designed to meet the requirements of the European Education Ministers' 1999 Bologna declaration for the European Higher Education Area.

Content and Goals

This master's degree program was developed specifically to focus on the specific requirements of arid and semiarid countries and regions in the fields of hydro-geology, hydraulics, water exploitation, water supply, wastewater treatment, water reuse and sustainable water management. The program is designed to foster a sustainable, process-oriented and interdisciplinary approach in teaching. Cutting-edge applied research is integrated into the course content; the program also includes complex semester projects in which interdisciplinary teams of students coming from engineering and natural science cooperate on typical problems of integrated water management.

Classes are held by eleven full and associated professors of TU Berlin, all of them specializing in water-related fields, with further support from research assistants from within the specific institutes and departments.

Business and Academic Opportunities

The market for candidates with a master's degree in Water Engineering is growing from year to year. Especially in arid and semiarid regions, demand for knowledgeable engineers trained in the use and development of innovative technologies for water exploitation, water treatment and water reuse is rising. But technology itself is just one part of the solution; versatile and integrated water resource management – the core of the program in Water Engineering at TU Berlin in El Gouna – is equally important. Top program graduates also have a range of excellent options in terms of continuing their academic careers.

Schedules and Characteristics

The master's degree program in Water Engineering begins each winter semester (October–March). Courses are held at the El Gouna campus, in Egypt. Courses are taught in English.

The main focal points of the curriculum are:

- Basic and applied hydrogeology, hydraulics and hydraulic engineering, modeling of water-related and environmental systems for sustainable exploration of water resources, especially groundwater;
- Conventional and advanced treatment of water and wastewater, wastewater discharge systems, decentralized sanitation solutions, water tanks and networks, sludge treatment, sludge disposal and water recycling, with particular consideration for the specific conditions of arid and semiarid regions;
- Biological and chemical aspects of water quality management, including water resource protection;

- Fundamentals of international water legislation, economics and socioeconomic aspects of water;
- Two project management blocs on "Integrated Water Resource Management" (IWRM);
- Soft skills, intercultural competence and scientific work;
- Practical experience, including field trips, demo site excursions and an industry internship.

In the third semester, a four-week excursion to advanced technical water sites in Germany is planned. During this trip, students will visit the TUB main campus and have the opportunity to consider future professional options in industry, administration and academia.

The subjects included in the program are required courses, but students also have the opportunity to determine the subject of the master's thesis individually. Students receive extensive mentoring and support from research assistants of TU Berlin.

Admission to the master's degree program in Water Engineering is limited to 30 students per year. Project groups are small and individually supervised by professors and research assistants. Students in the program enjoy excellent working conditions, with ample study space, library access and access to IT equipment (PC room).

Every student is provided with his or her own workspace. The El Gouna campus systems include videoconferencing tools and cutting-edge analytical equipment. Moreover the facilities comprise innovative wastewater treatment, membranes and oxidation pilot plants.