

**Short-term Intensive Course on**  
**Environmental Engineering, Environmental Technology**  
**Faculty of Engineering, University of Debrecen, Hungary**

The city of Debrecen has more than 200,000 inhabitants, making it the second largest city in Hungary. It lies in the north-eastern part of the Great Plain region about 240 km from Budapest. Debrecen is the cultural and scientific centre of eastern Hungary, a city of festivals, which has always been able to renew itself during its turbulent history of more than 650 years. The city is also attractive to tourists. It receives hundreds of thousands of visitors every year during its festivals, which include the Béla Bartók International Choir Contest, Debrecen's Jazz Days, the Hungarian language and cultural courses of the Debrecen Summer School, or the Flower Carnival held each year on 20th August.

The University is historically rooted in the Reformed College of Debrecen (founded in 1538) whose three academic sections later served as the basis for the establishment of the Hungarian Royal University of Sciences, created in 1912. With this heritage of more than 450 years, UD is one of the oldest institutions of higher education in Hungary. Today the university is comprised of 14 faculties and has close to 32,000 students, out of which 6,500 are internationals. UD was awarded the titles "Research University" (in 2010) and "University of National Excellence" (in 2012) by the Hungarian Government.

**UD ranked among Top Universities**

Four Hungarian universities are included in the most recent QS World University Rankings with the UD featured between 601<sup>st</sup> and 650<sup>th</sup> position on the list of top universities in the world. In consideration of quality of foreign students training UD is at 304<sup>th</sup> position in the world's ranking list.

The **Faculty of Engineering** has been awarded several prizes for high quality education „The North Great Plain Quality” and the „Recognized for Excellence by the Hungarian Association for Excellence” prizes in 2008 and „Higher Education Quality Prize in 2011. It is a dynamically developing Faculty with over 2,700 students, out of which 1,000 are internationals, and a highly-qualified and enthusiastic teaching staff of about 100 members.

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The aim of the course is to transfer modern and practice-oriented skills of **Environmental Technologies**. Participants learn up-to-date knowledge in natural elements, environmental problems and damages and learn how to utilize natural resources rationally, develop and operate environmental and cleaner technologies. Students get professional practical knowledge in the following areas of Environmental engineering: water management, waste management, air quality technologies, environmental analysis, noise and vibration protection, etc. This course will contain some professional visits to connecting plants, too.

## Half-year Intensive Course

### Course list for autumn semester:

Name of Subject/ Neptun code	Number of teaching hours/week:		Requirement	Credit Points	Responsible for the subject
	Lecture	Practice			
Measurement Techniques and Monitoring of Environmental Engineering II. <b>MFKMM32K03-EN</b>	2	1	msg	3	Dr. Ildikó Bodnár/ Dr. Andrea Üveges-Keczán
Water Management and Water Quality Protection I. <b>MFVGV31K03-EN</b>	2	1	e	3	Dr. Ildikó Bodnár
Waste Management II. <b>MFHUG32K03-EN</b>	2	2	msg	3	Dr. Norbert Boros
Noise and Vibration Protection II. <b>MFZRV32K03 -EN</b>	0	3	msg	3	Dr. Dénes Kocsis

### Course list for spring semester:

Name of Subject/ Neptun code	Number of teaching hours/week:		Requirement	Credit Points	Responsible for the subject
	Lecture	Practice			
Measurement Techniques and Monitoring of Environmental Engineering I. <b>MFKMM31K03-EN</b>	2	2	msg	3	Dr. Ildikó Bodnár/ Dr. Andrea Üveges-Keczán
Water Management and Water Quality Protection II. <b>MFVGV32X03 -EN</b>	2	1	e	3	Dr. Ildikó Bodnár
Waste Management I. <b>MFHUG31X03 -EN</b>	2	0	e	3	Dr. Norbert Boros
Noise and Vibration Protection I. <b>MFZRV31K03-EN</b>	2	0	e	3	Dr. Dénes Kocsis

## Tree-Four weeks Intensive Course

### Sample Schedule for **Environmental Engineering, Environmental Technology**

Model week

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
1	Subject specific English	Subject specific English	Subject specific English	Subject specific English	Subject specific English
2	Subject specific English	Subject specific English	Subject specific English	Subject specific English	Subject specific English
3 4 5	Environmental analysis	Air Quality Monitoring	Waste Management	Laboratory Practice, Environmental analysis	Professional visits
6 7 8	Soil protection	Calculation with MATLAB	Modeling with IMMI	Laboratory Practice, Noise- and vibration Protection	Professional visits