Short-term Intensive Course on Sustainable Land Use Centre for Agricultural and Applied Economic Sciences, 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.

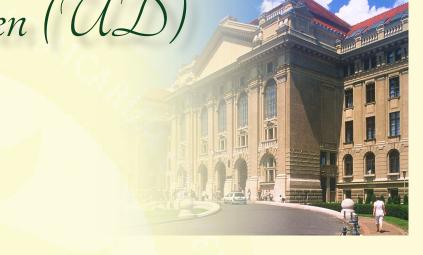
Thousands of students attending college or university-level faculties choose to live and study in our city each academic year.

The University of Debrecen (UD)

The University of Debrecen, like other integrated institutions of higher education in the country, was formed on 1st January, 2000, through the (re)union of formerly independent institutions. 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 15 faculties and three agricultural research centres and has close to 35,000 students, out of which 3,500 are internationals.

UD ranks among the top state higher education institutions in the country. It was awarded the titles "Research University" (in 2010) and "University of National Excellence" (in 2012) by the Hungarian Government.





Short-term Intensive Course on Sustainable Land Use



The aim of the course is to transfer modern and practice-oriented skills of land use. Participants learn soil preserving production technological solutions, as well as the tool system of soil protection and soil improvement. They are also trained how to adjust to changing production circumstances, as well as to challenges arising from climate change. As a complementation of their theoretical knowledge, participants can attain the practice of sustainable land use during various study trips to pilot farms operating on various production sites in Hungary.



Sample Schedule for Short-term Intensive Course on Sustainable Land Use

Week 1

	Mondon	Tuesday	Wadnagday	Thursday	Evidor
-	Monday	Tuesday	Wednesday	Thursday	Friday
1	Subject specific	Subject specific	Subject specific	Subject specific	Subject specific
<u> </u>	English	English	English	English	English
2	Subject specific	Subject specific	Subject specific	Subject specific	Subject specific
	English	English	English	English	English
	Topic: Methods	Topic: Soil	Topic: Visit to	Topic:	Topic: Machines
	of influencing	tillage systems	Karcag	Cultivation	of cultivation
	the water, heat	of field crops	Research	methods of	
	and air		Institute	different soil	
	management of			types	
	soil				
3	Water	Order of soil		Brown forest	Type of ploughs
	management of	preparation		soils	Type of proughs
	the soil	preparation		30113	
4	Water	Order of soil		Chernozem	Fanas and marrian
4					Force and power
	management of	preparation		soils	requirements
<u> </u>	the soil				
5	Air management	Order of soil		Meadow soils	The main parts
	of the soil	preparation			of the plough,
					Plough setting
6	Air management	Tillage systems		Alkaline soils	Disc harrow,
	of the soil	ategorised by			Harrows
		sowing date			
7	Heat	Tillage systems		Sandy	Rotary tiller,
	management of	categorised by		(skeletal) soils	Rolls
	the soil	sowing date		(Skeletal) solls	Kons
8	Heat			Marsh soils	Cultivotors
0		Tillage systems		IVIAISII SOIIS	Cultivators,
	management of	ategorised by			Combined
	the soil	sowing date			tillage machines

Week 2

	Monday	Tuesday	Wednesday	Thursday	Friday
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
	Topic: Conservation tillage systems	Topic: The necessity, method and tools of deep cultivation	Topic: Land use methods	Topic: Tillage systems used in Hungary	Topic: Visit to KITE Zrt.
3	Characteristics of conventional tillage systems	Cause and significance of soil compaction	Crop rotation	Conventional tillage	
4	Characteristics of minimum tillage system	A Factors influencing soil compaction	Crop rotation	Conventional tillage	
5	Characteristics of reduced tillage system	Consequences of soil compaction	Aspects influencing the crop composition	Improved conventional tillage	
6	Characteristics of conservation tillage systems	The aim and necessity of deep tillage	Aspects of developing the crop order	Improved conventional tillage	
7	Western Europe type tillage systems	The aim and necessity of deep tillage	Aspects of developing the crop order	Reduced tillage systems	
8	Tillage systems comparisons	Method of deep tillage	Natural science bases of crop cycle	Reduced tillage systems	

Sample Schedule for Short-term Intensive Course on Sustainable Land Use

Week 3

	Monday	Tuesday	Wednesday	Thursday	Friday
1	Subject specific	Subject specific	Subject specific	Subject specific	Subject specific
*	English	English	English	English	English
2	Subject specific	Subject specific	Subject specific	Subject specific	Subject specific
	English	English	English	English	English
	Topic: Nutrient	Topic:	Topic: Visit to	Topic:	Topic:
	management	Machines of	Látókép	Production site	Mechanization
		nutrient		protection,	of sowing
		application		protection	
				against erosion	
				and deflation	
3	Fundamental	Spinning disc		The importance	Grain drills
-	concepts of	type fertilizer		of production	Gram arms
	nutrient	spreader		site and soil	
	management	-F		protection	
4	Factors	Tractor carried		The importance	Grain drills
	influencing the	type fertilizer		of production	
	effectiveness of	spreader		site and soil	
	fertilisers			protection	
5	Correlation	Pendulum,		Land	Precision Seed
	between	auger and		consolidation	drills
	fertilisation and	pneumatic type			
	agrotechnical	fertilizer			
	factors	distributor			
6	Basic principles	Manure		Plot	Precision Seed
0	of nutrient supply	spreaders		development	drills
	of fluctions supply	spreaders		development	dillis
7	Precision,	Slurry		Deflation	Direct sowing
	production site-	spreaders			machines
	specific				
	fertilisation				
8	Environmental	Slurry		Deflation	Direct sowing
°	aspects of	spreaders		Delianon	machines
	nutrient supply	spreaders			macinies
	nuu ieni suppiy				

Week 4

		Monday	Tuesday	Wednesday	Thursday	Friday	
	1	Subject specific English	Subject specific English	Subject specific English	Subject specific English	Subject specific	
		English	Eligiisii	Eligiisii	Eligiisii	English	
	2	Subject specific	Subject specific	Subject specific	Subject specific	Subject	
		English	English	English	English	specific English	
		Topic:	Topic: Visit to	Topic:	Topic:	Topic:	
		Production site	Research Institute	Precision	Precision	Irrigation	
		protection and	of Nyíregyháza	agriculture I.	agriculture II.	farming	
		improvement					
	3	Concept and tasks		Satellite	Precision soil	The impact	
		of soil		navigation	tillage	of irrigation	
		improvement		systems		on the soil	
	4	Improvement of		Accuracy of	Precision soil	The impact	
		saline soils		localisation,	tillage	of irrigation	
				correction		on the soil	
				methods			
	5	Improvement of		Precision soil	Precision	The impact	
		acidic soils		data	sowing	of irrigation	
П						on the soil	
	6	Improvement of		Lin <mark>e guidance</mark>	Precision	Tillage of	
		acidic soils			nutrient	irrigated soils	
					supply		
	7	Improvement of		Automatic	Precision plant	Tillage of	
H		sandy soils		steering	protection	irrigated soils	
H	8	Improvement of		Fleet	Precision	Tillage of	
		the physical and		management	harvesting	irrigated soils	
		biological soil					
		condition					

Please note that this is only a sample schedule. Subjects can be changed and further subjects can be added according to the needs of the applicants.

The cost of the intensive course is 1500 EUR/person. Accommodation can be booked at the University's dormitories from 200 EUR/month/person price.

The cost of full board is 500 EUR/ month.

For further information please contact:

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