Land Use Planning

The aim of the Programme is to prepare broad erudition and highly qualified land use planning specialists who are able to sustainably solve multiple theoretical and practical problems of environmental engineering, landscaping and land administration, improve their professional activities, have critical, systematic and creative thinking and research (scientific) work experience in professional real estate administration, planning, etc. work or developing innovative and science-based real estate technology and management solutions.

Description of learning outcomes of each study cycle	Intended learning outcomes of the Programme	Study courses of the Programme
Knowledge and its application	- To understand the principles of environmental engineering and be able to apply them when solving new engineering tasks that are directly related to landscaping, land administration and real estate formation.	Rural Landscape Management, Real estate Valuation and Market Analysis, Management of Protected Areas Landscape, Land Resources Information System, Geographic Databases, Rural Development and Land Consolidation, Urban Planning, Research Work-1, Agroenviromental Assessment, Management of Investment Projects, Landscape Architecture, Landscape Ecology, Master studies final work, Legal Regulation of Constructions, Evaluation of Planning Solutions.
its application	- To be able to perform engineering analysis by remote, contact, mathematical statistical and other methods, and to critically evaluate the latest achievements in the field of environmental engineering, to solve various problems of environmental engineering. Have the knowledge and skills required to perform design work in environmental engineering, measurement engineering and landscaping.	Analysis of Land Administration, Research Work-1, Digital Photogrametry, Regulation of Land Use Planning, Spatial Data Analysis, Legal Regulation of Constructions, Automation of Geodetic Works.
	- To be able to identify, find, evaluate the data required for engineering work, landscaping and land administration using databases and other information sources.	Management of Protected Areas Landscape, Land Resources Information System, Geographic Databases, Urban Planning, Master studies final work, Spatial Data Analysis, Research Work - 2.
Research skills	-To be able to plan and perform analytical, modelling and experimental research in the field of environmental engineering, critically evaluate their data and present conclusions.	Rural Landscape Management, Real Estate Valuation and Market Analysis, Land Resources Information System, Analysis of Land Administration, Rural Development and Land Consolidation, Digital Photogrammetry, Regulation of Land Use Planning, Spatial Data Analysis.

	-To be able to investigate the applicability of new methods and	Rural Development and Land Consolidation, Research Work -1,		
	techniques for solving environmental engineering, landscaping and			
	land administration problems for sustainable land use, theory			
	planning and efficient land administration.			
	-To be able to combine the knowledge of different fields of study in	Methodology of Scientific Research, Landscape Ecology, Digital		
	solving multiple problems of environmental engineering,	Photogrammetry, Master studies final work, Research Work -2,		
	landscaping and land administration, using modern technologies	Automation of Geodetic Works.		
Special abilities	that conserve land and other natural resources.			
	-To comprehensively understand and be able to apply methods and	Agroenviromental Assessment, Landscape Architecture, Digital		
	methodologies in accordance with ethical, environmental and	Photogrammetry, Evaluation of Planning Solutions.		
	commercial engineering requirements.			
	- To be able to work effectively in solving environmental	Spatial Data Analysis.		
Social abilities	engineering issues, independently and in a team, to be able to be the			
Social admittes	leader of a team that can be formed by representatives of various	According to the specifics of the courses, includes other study		
	fields of study and levels.	courses		
	-To be able to communicate, coordinate and solve land	Digital Photogrammetry.		
	administration and management issues with the engineering			
	community and the general public at the national and international	According to the specifics of the courses, includes other study		
	levels.	courses.		
Personal abilities	-Holistic understanding of the impact of environmental engineering	Agroenviromental Assessment, Management		
Personal admittes	and related land use planning solutions on society and the	of Investment Projects, Evaluation of Planning Solutions.		
	environment, adherence to professional ethics and engineering			
	standards, knowledge of project management and business aspects,	According to the specifics of the courses, includes other study		
	understanding of responsibility for engineering activities and the	courses.		
	importance of individual lifelong learning.			

I semester	Study courses	ECTS	Contact work hours	Independent work hours	The form of assessment
	Study field courses				
	Rural Landscape Management	6	60	100	Exam in written
	Management of Protected Areas Landscape	6	60	100	Exam in written
	Land Resources Information System	6	60	100	Exam in written
	Real Estate Valuation and Market Analysis	6	60	100	Exam in written
	Study courses of another study field(-s)				

	Methodology of Scientific Research	6	60	100	Exam in written
	Totally in the semester:	30	300	500	
	Study courses	ECTS	Contact work hours	Independent work hours	The form of assessment
	Study field courses				
semester	Geographic Databases	6	60	100	Exam in written
ıes	Rural Development and Land Consolidation	6	60	100	Exam in written
en	Urban Planning	6	60	100	Exam in written
	Research Work - 1	6	3	157	Exam in written
	Analysis of Land Administration	6	60	100	Exam in written
	Totally in the semester:	30	243	557	
	Study courses	ECTS	Contact work hours	Independent work hours	The form of assessment
	Study field courses				
	Compulsory:				
	Research Work -2	6	3	157	Exam in written
	Spatial Data Analysis	6	60	100	Exam in written
	Agroenvironmental Assessment	6	60	100	Exam in written
er	Elective: (6 ECTS):				
III semester	Landscape Architecture	6	60	100	Exam in written
Ĭ	Landscape Ecology	6	60	100	Exam in written
Se	Evaluation of Planning Solutions	6	60	100	Exam in written
	Regulation of Land Use Planning	6	60	100	Exam in written
	Study courses of another study field(-s)				
	Elective: (6 ECTS):				
	Management of Investment Projects	6	60	100	Exam in written
	Legal Regulation of Constructions	6	60	100	Exam in written
	Automation of Geodetic Works	6	60	100	Exam in written
	Digital Photogrammetry	6	60	100	Exam in written
	Totally in the semester:	30	243	557	
IV	Study courses	ECTS	Contact work hours	Independent work hours	The form of assessment

Study field courses	Study field courses				
Master studies final work	30	15	785	Defence of the final work	
Totally in the semester:	30	15	785		
Totally in the programme:	120			•	
Totally for the final thesis:	30				
Totally for elective courses:	12				
Totally for the study field courses:	102				
Totally for the study courses of another study field:	18				

Faculty of Engineering

Group of Fields of Study Engineering Sciences

Lenght of the Programme 2 years

ECTS credits 120

Name of the Qualification Master of Engineering Sciences

Contacts

Faculty of Engineering

Contact person of the Programme: AssocProf. Virginija Gurskienė, virginija.gurskiene@vdu.lt

Address: Studentu str. 15, Akademija, LT-53362 Kaunas distr., Lithuania **Website:** https://zua.vdu.lt/en/faculties/faculty-of-agricultural-engineering/