

## FACULTY OF ENGINEERING STUDY COURSE DESCRIPTION

Course Title:	Geoinformation Systems							
Course code (LAIS):								
Study programme:	Information Technologies							
		□ 1st level professional higher education						
Level of Study programme:	Professional Bachelor							
Level of Study programme.			nal Master					
		Academic	e Master					
	□ PhD level							
	Compulsory course (Part A)							
Type of Study programme:	Professional specialization courses (Part B, compulsory)							
	<ul> <li>Professional specialization optional courses (Part B, optional)</li> <li>Elective courses (Part C)</li> </ul>							
	Academic Independent							
Course Workload:	Credits FCTS Contact hours 1					work hours		
Full time		2	3	80	32	48		
	Michal Kepka							
Course Author/ Tutor:	Aca	demic, Ph.I	).					
Course Author/ Tutor:	e-mail: mkepka@kgm.zcu.cz							
	Consultation: according to the schedule for each semester							
Study Form:			s/Part time s	studies				
Study year, semester:	3 <sup>rd</sup> y	ear; 6 <sup>th</sup> sen	nester					
Language:	English							
<b>Prerequisites for the Course:</b>								
<b>Course Summary:</b>								
Assessment:								
<b>Requirements for Credits:</b>								
Abiding by the Academic Ethics	<ul> <li>Students must abide by the academic and research ethics, Vidzeme University of Applied Sciences Ethics Regulations, incl.:</li> <li>study papers must be independently developed;</li> <li>the study work should reference all statements, ideas and data used that have been authored by someone else;</li> <li>appropriate data acquisition methods should be used in the acquisition of data, the research ethics must be respected, empirical data must be collected independently and cannot be distorted or falsified;</li> <li>the examination must be carried out by the student independently, without the use of supporting materials and/or consultations with other students, unless the lecturer states otherwise.</li> <li>In the event of non-compliance with the academic and research ethics, punishment is</li> </ul>							
	imposed in accordance with the ViA Ethics Regulations and the study course must be re- taken, unless the punishment is extramarital.							
	lane		arning Outc		The evaluation me	thods and criteria		
	Kno	wledge						
		0	hical inform	ation systems	Seminar project			
			of raster and		Written exam			
	Define principles of spatial data processing							
Learning Outcomes; the	Define principles of spatial data visualization							
evaluation methods and	Skills							
criteria	Get spatial data from open repositories Written exam							
	Pro	cess spatial	patial data by GIS methods Practical exam					
	Ana	alyse spatial	data by GIS	algorithms	Seminar project			
	Visualize spatial data on the Web							
	Competency							
			methods to a	nalyse data	Written exam			

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	Visualize data with spatial dimension	Practical exam Seminar project		
	Extract added value from spatial data			
Course Compulsory				
literature:				
Course additional literature:				
Course confirmation date:				
Date of course description				
update:				

## **Study Course Plan for Full Time Students:**

		Academic hours		Study Form/	
Date	Theme	Contact hours	Independent work hours	Organization of independent work of students and task description	
The date is specified before the implementation of the course					
1	Introduction of GIS	5	6	Lecture / individual study	
2	Relationships between spatial data and attributes	5	7	Lecture / individual study	
3	Processing and storing of geographic data.	5	7	Lecture / individual study	
4	Analysis and synthesis of information.	5	7	Practicum / individual study	
5	Accessible and open applications, web services, standards	5	7	Lecture / individual study	
6	Introduction of Computer cartography	4	7	Practicum / individual study	
7	Visualization of data on the Web	3	7	Practicum / individual study	
	Hours total:	32	48		

## **Study Course Plan for Part Time Students:**

		Acade	mic hours	Study Form/
Date	Theme	Contact hours	Independent work hours	Organization of independent work of students and task description
The date is specified before the implementation of the course				
1	Introduction of GIS	2	5	Lecture / individual study
2	Relationships between spatial data and attributes	2	5	Lecture / individual study
3	Processing and storing of geographic data.	1	10	Lecture / individual study
4	Analysis and synthesis of information.	1	10	Practicum / individual study
5	Accessible and open applications, web services, standards	1	10	Lecture / individual study
6	Introduction of Computer cartography	1	10	Practicum / individual study
7	Visualization of data on the Web	2	20	Practicum / individual study
	Hours total:	10	70	