

Faculty of Civil and Environmental Engineering					
Study programme:	<b>Ecoengineering</b>	Degree level: full-time/part-time programme: <b>Bachelor's degree</b>			
Specialization	<b>common module</b>	Diploma path: -			
Module name:	<b>Cartography</b>		<b>EK106</b>		
Module type:	<b>obligatory</b>	Semester: <b>1</b>	ECTS <b>1</b>	Module ID:	
No. of hrs in semester:	L - 0	C - 0	LC- 0	P- 15	SW- 0 S- 0
Prerequisites:	<i>Complete with prerequisites or "-"</i>		-		
Teaching methods:	<i>exercises</i>	Assessment:	<i>Evaluation must be relevant to the intended learning outcomes</i>		
		evaluation of exercises, colloquium			
Aims and objectives:	<i>Skills of interpretation and perception of geographic space on the basis of cartographic models. Analysis of cartographic information. Principles of designing and preparation thematic of maps.</i>				
Module content:	<i>Thematic maps in the study, design and environmental protection. Editotion and elaboration of thematic maps. Using the maps, reading spatial information, location of environmental data in the cartographic space. Designing and processing of thematic maps. Fundamentals of spatial analysis. Principles of use of auxiliary media of spatial information.</i>				
Learning outcomes	<i>Write min. 4, max. 8 learning outcomes in the following order: knowledge - skills - competences. Each learning outcome must be verifiable.</i>			<i>Relevance to the programme learning outcomes</i>	
LO1	student can read information from the topographic map and create hypsometric map and cross section model			K_U12, K_U02	
LO2	student knows how to read the map information on land cover and how to create the map of the land use			K_U12, K_U02	
LO3	student is able to design additional content to the topographic map and select the appropriate method of cartographic presentation			K_U12, K_U02	
LO4	student knows how to construct the legend of the map and the system of signs to the content of the thematic maps			K_U12, K_U02	
LO5					
LO6					

L07			
L08			
student workload	participation in the project classes	15 x 1h	15
	participation in student-teacher sessions related to the project		2
	preparation of the projects		13
			TOTAL:
quantitative indicators	Student workload - activities that require direct teacher participation	17	ECTS 0,5
	Student workload - practical skills activities	30	1
basic references:	<i>Kraak M.J., Ormeling F.J. 2009. Cartography: Visualization of Spatial Data.</i>		
supplementary references:	<i>Slocum T.A. et al. 2008. Thematic Cartography and Geovisualization.</i>		
learning outcomes	<i>methods of assessing learning outcomes</i>	type of class (if more than one) where the outcomes are assessed	
L01	evaluation of project exercises and practical work with maps	P	
L02	evaluation of project exercises and practical work with maps	P	
L03	evaluation of project exercises and practical work with maps	P	
L04	evaluation of project exercises and practical work with maps	P	
L05			
L06			
L07			
L08			
Department:	Department of Environmental Protection	Group instructors:	dr. Dan Wołkowycki

Date: 30.09.2014

Coordinator:

dr. Dan Wołkowycki

L - lecture   C - class   LC - laboratory class   P-project  
SW - specialization workshop   S - seminar