

Faculty of Civil and Environmental Engineering						
Study programme:	<b>Civil Engineering</b>		Degree level: full- <b>Bachelor's degree/Master's degree/Doctoral degree</b> time/part-time programme:			
Specialization			Diploma path:			
Module name:	<b>Geotechnical Practice</b>					
Module type:	<b>obligatory</b>	Semester:	<b>6</b>	ECTS	<b>2</b>	Module ID: <b>B06346</b>
No. of hrs in semester:	L - C - LC- P- SW- S- Practice -60h					
Prerequisites:	<i>Complete with prerequisites or "-"</i>		Engineering Geology and Petrography, Soil Mechanics			
Aims and objectives:	<i>Description of the assumed knowledge, skills and social competence the student should have acquired after the completion of the module:</i>		To strength and use knowledge of geology, soil mechanics and foundation engineering in preparing geotechnical documentation			
Forms of teaching activities:	<i>lecture, classes, laboratory classes, project, specialization workshop, seminar</i>		Assessment:		Evaluation must be relevant to the intended learning outcomes	
			Preparation and presentation of geotechnical documentation and discussion			
Module content:	<i>Complete with the module content: (max. 1000 characters)</i> Field reconnaissance. Borehole position and elevation measurement. Getting to know with geomorphology, watercourses and directions of surface runoff. Making boreholes, soil identification and description. Determination of water level in a borehole. Standard penetration test of non-cohesive soils. Preparation of geological soil profiles, standard penetration test diagrams, and geological cross sections. Preparation of geotechnical documentation.					
Teaching methods:						
Learning outcome	Specify min. 4, max. 8 learning outcomes in the following order: knowledge – skills – competence. Each learning outcome must be verifiable					Reference to the programme learning outcomes
LO1	Student: collects information from the field reconnaissance, geological maps and geological documentations.					
LO2	Describes field geomorphology, subsurface and groundwater conditions of the construction site.					
LO3	Develops the results obtained from the surveying.					
LO4	Works in team during making boreholes and standard penetration test of the ground. Student can indentify and describe soil.					
LO5	Prepares in team geotachnical documentation.					
LO6						
LO7						
LO8						

No. of learning outcome	Methods of assessing the learning outcome	Type of teaching activities (if more than one) during which the outcome is assessed	
LO1	Check student's knowledge about surveying measurements and geotechnical investigation		
LO2	Check student's knowledge about geotechnical investigation		
LO3	Verification of prepared surveying documentation		
LO4	Current verification of boreholes, penetrations tests and soil indentufucation		
LO5	Verification of prepared geotechnical documentation		
LO6			
LO7			
LO8			
Student workload (in hours)	lecture attendance		
	Performing surveying the terrain of practice	2 x 6h =	12
	Implementation of geotechnical field investigations	4 x 6h =	24
	Preparation of surveying reports	1 x 6h =	6
	Preparation of geotechnical documentation	3 x 6h =	18
		TOTAL:	60
Quantitative indicators	Student workload – activities that require direct teacher participation:		ECTS
	Student workload – practical activities:		
Basic references:	1. Glazer Z., Malinowski J.: <i>Geologia i geotechnika dla inżynierów budownictwa</i> . PWN, Warszawa, 1999. 2. Witun Z.: <i>Zarys geotechniki</i> . WKŁ, Warszawa, 2005. 3. EN 1997. <i>Eurocode 7</i> . 3.		
Supplementary references:	1. PN - EN ISO 14688 - 1. <i>Badania geotechniczne. Oznaczanie i klasyfikowanie gruntów. Część 1. Oznaczanie i opis, Część 2. Zasady klasyfikowania</i> . 2. Lenczewska-Samotyja E., Łowkis A., Zdrojewska N.: <i>Zarys geologii z elementami geologii inżynierskiej i hydrogeologii</i> . Wyd. Politechniki Warszawskiej, Warszawa, 2007. 3. Eswaran, H., Rice, T., Ahrens, R., & Stewart, B. A. (Eds.). (2002). <i>Soil classification : a global desk reference</i> . Boca Raton, Fla.: CRC Press.		
Unit:	Department of Geotechnics		
Date of issuing the programme:	dd.mm.yyyy	Author of the programme:	name and surname, degree

L - lecture    C - classes  
SW - specialization workshop

LC - laboratory classes    P-project  
S - seminar