



MODULE SPECIFICATION

Module code	
Module title in Polish	Praca dyplomowa
Module title in English	Diploma Thesis
Module running from the academic year	2016/2017

A. MODULE IN THE CONTEXT OF THE PROGRAMME OF STUDY

Field of study	Surveying and Cartography
Level of qualification	first cycle (first cycle, second cycle)
Programme type	academic (academic/practical)
Mode of study	full-time (full-time/part-time)
Specialism	all
Organisational unit responsible for module delivery	The Department of Geotechnical Engineering, Geomatics and Waste Management
Module co-ordinator	Ryszard Florek-Paszkowski, PhD, Eng.
Approved by:	Ryszard Florek-Paszkowski, PhD, Eng.

B. MODULE OVERVIEW

Module type	core module (core/programme-specific/elective HES*)
Module status	compulsory module (compulsory/optional)
Language of module delivery	English
Semester in the programme of study in which the module is taught	semester 7
Semester in the academic year in which the module is taught	winter semester (winter semester/summer semester)
Pre-requisites	None (module code/module title, where appropriate)
Examination required	No (Yes/No)
ECTS credits	15

* elective HES – elective modules in the Humanities and Economic and Social Sciences

Mode of instruction	lectures	classes	laboratories	project	others
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Politechnika Świętokrzyska

WYDZIAŁ INŻYNIERII ŚRODOWISKA, GEOMATYKI I ENERGETYKI

Total hours per semester					180
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C. LEARNING OUTCOMES AND ASSESSMENT METHODS

Module aims	The aim of the diploma thesis is to confirm students' practical skills with respect to their specialisation.
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Module outcome code	Module learning outcomes	Mode of instruction (/l/c/lab/p/ others)	Corresponding programme outcome code	Corresponding discipline-specific outcome code
W_01	A student has useful knowledge to formulate and solve basic tasks connected with surveying and cartography; a student also has systemised knowledge on geometric reconstruction of space, as regards general and surveying computer science, civil and administrative law (together with surveying and cartography).	other	GiK_W01 GiK_W02 GiK_W04 GiK_W05 GiK_W09	T1A_W01 T1A_W02 T1A_W03, T1A_W04, T1A_W05, T1A_W06, T1A_W07 T1A_W10
W_02	A student is familiar with surveying instruments, the principles of controlling and rectifying them; a student also knows the principles of functioning as regards electronic measuring instruments and obtaining data in the survey process; moreover, a student is familiar with spatial reference systems, a student also knows the principles of automation geodetic and cartographic production process.	other	GiK_W20 GiK_W17	T1A_W03, T1A_W04 T1A_W06 T1A_W07
W_03	A student knows basic principles of determining property value; a student also knows the principles, methods as well as aim of keeping record of property cadastre and the tasks of property management.	other	GiK_W08 GiK_W18	T1A_W02, T1A_W03, T1A_W04, T1A_W08
U_01	A student can prepare and present (both in Polish and a foreign language) an engineering problem concerning surveying and cartography; a student also has substantive and methodological preparation of thematic presentation on surveying and cartography (and other related disciplines).	other	GiK_U04 GiK_U08	T1A_U01, T1A_U04 T1A_U06
U_02	A student is able to plan and take geodetic surveys, interpret results and draw conclusions; a student can also (according to the standards and after conducting an initial economic analysis) prepare geodetic technical documentation, i.e. an engineering project on surveying.	other	GiK_U07 GiK_U14 GiK_U24	T1A_U03, T1A_U06 T1A_U08 T1A_U16
U_03	A student is able to utilise analytical, simulation, and experimental methods to formulate and solve engineering tasks; a student also has theoretical and practical preparation for creative solving both standard and non-standard engineering as well as organisational problems.	other	GiK_U18 GiK_U21	T1A_U09 T1A_U13, T1A_U15
K_01	A student is responsible for the reliability of the obtained results of his/her own work (together with their interpretation).	other	GiK_K06	T1A_K03
K_02	A student is aware of the necessity of raising his/her professional and personal competences (as well as acting in a professional and responsible manner according to the principles of professional ethics).	other	GiK_K02	T1A_K01, T1A_K02, T1A_K05, T1A_K07

Module content:



1. Topics to be covered in the lectures

No.	Topics	Module outcome code
1	A diploma thesis on surveying and cartography.	W_01 W_02 W_03 U_01 U_02 U_03 K_01 K_02

Assessment methods

Module outcome code	Assessment methods <i>(Method of assessment; for module skills – reference to specific project, laboratory and similar tasks)</i>
W_01	A diploma thesis
W_02	A diploma thesis
W_03	A diploma thesis
U_01	A diploma thesis
U_02	A diploma thesis
U_03	A diploma thesis
K_01	A diploma thesis, a discussion during tutorials and presenting results
K_02	A diploma thesis, a discussion during tutorials and presenting results



D. STUDENT LEARNING ACTIVITIES

ECTS summary		
	Type of learning activity	Study time/ credits
1	Contact hours: participation in lectures	-
2	Contact hours: participation in classes	-
3	Contact hours: participation in laboratories	-
4	Contact hours: attendance at office hours (2-3 appointments per semester)	
5	Contact hours: participation in project-based classes	
6	Contact hours: meetings with a project module leader	
7	Contact hours: attendance at an examination	-
8		
9	Number of contact hours	0 <i>(total)</i>
10	Number of ECTS credits for contact hours <i>(1 ECTS credit = 25-30 hours of study time)</i>	0
11	Private study hours: background reading for lectures	
12	Private study hours: preparation for classes	
13	Private study hours: preparation for tests	
14	Private study hours: preparation for laboratories	
15	Private study hours: writing reports	-
16	Private study hours: preparation for a final test in laboratories	
17	Private study hours: preparation of a project/a design specification	
18	Private study hours: preparation for an examination	-
19		
20	Number of private study hours	<i>(total)</i>
21	Number of ECTS credits for private study hours <i>(1 ECTS credit = 25-30 hours of study time)</i>	15
22	Total study time	-
23	Total ECTS credits for the module <i>(1 ECTS credit = 25-30 hours of study time)</i>	15
24	Number of practice-based hours <i>Total practice-based hours</i>	-
25	Number of ECTS credits for practice-based hours <i>(1 ECTS credit = 25-30 hours of study time)</i>	15

E. READING LIST

References	
Module website	