



MODULE SPECIFICATION

Module code	
Module title in Polish	Seminarium dyplomowe
Module title in English	Diploma Seminar
Module running from the academic year	2016/2017

A. MODULE IN THE CONTEXT OF THE PROGRAMME OF STUDY

Field of study	Environmental Engineering
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	
Module co-ordinator	Lidia Dąbek, PhD hab., Professor of the University
Approved by:	Lidia Dąbek, PhD hab., Professor of the University

B. MODULE OVERVIEW

Module type	core module (core/programme-specific/elective HES*)
Module status	compulsory module (compulsory/optional)
Language of module delivery	Polish/ 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	

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



Politechnika Świętokrzyska

WYDZIAŁ INŻYNIERII ŚRODOWISKA, GEOMATYKI I ENERGETYKI

Mode of instruction	lectures	classes	laboratories	project	others
Total hours per semester					



C. LEARNING OUTCOMES AND ASSESSMENT METHODS

Module aims	The aim of the module is to comprehensively acquaint students with the issues of environmental engineering, present the results of the diploma thesis and discuss the issues connected with environmental engineering; another objective is to acquire the skills of preparing papers and presentations and defending the presented theses.
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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 knows theoretical fundamentals of the processes, technologies, and materials utilised in environmental engineering and systems design.	p	IS_W06, IS_W07, IS_W09, IS_W10, IS_W18,	T1A_W03, T1A_W04, T1A_W05, T1A_W06, T1A_W07, T1A_W08,
W_02	A student has knowledge necessary to develop, prepare, document and present the issues concerning environmental engineering; a student is knowledgeable about the organisation, layout, and preparation of a work station, including the one with respect to a diploma thesis.	p	IS_W02, IS_W05, IS_W17, IS_W20,	T1A_W02, T1A_W05, T1A_W07, T1A_W10,
W_03	A student has fundamental knowledge of the development trends in environmental engineering.	p	IS_W15, IS_W16, IS_W18	T1A_W02, T1A_W03, T1A_W05, T1A_W06, T1A_W07, T1A_W08,
U_01	A student can prepare a presentation on a given subject concerning environmental engineering; a student can also give his/her interpretation of the project paper results and defend the accepted theses and assumptions.	p	IS_U02, IS_U05, IS_U12, IS_U25,	T1A_U01, T1A_U02, T1A_U03, T1A_U04, T1A_U05, T1A_U07, T1A_U08, T1A_U09, T1A_U10 T1A_U15,
U_02	A student understands the methods of searching for information included in various bibliographical and Internet sources; a student can also assess this information in a substantive manner and utilise it in his/her diploma thesis.	p	IS_U02, IS_U03, IS_U06	T1A_U01, T1A_U02, T1A_U03, T1A_U04, T1A_U05, T1A_U06, T1A_U07, T1A_U08
U_03	A student is capable of preparing for the diploma seminar classes individually and defending his/her diploma thesis.	p	IS_U07, IS_U27,	T1A_U05, T1A_U15,
K_01	A student understands the necessity to continue his/her education and is aware of the need to raise his/her professional qualifications.	p	IS_K02, IS_K03,	T1A_K02, T1A_K03, T1A_K05,
K_02	A student is aware of the necessity to act in a responsible manner in compliance with the principles of professional ethics; a student also respects the principles of protecting intellectual property and the environment.	p	IS_K08, IS_K09,	T1A_K02, T1A_K05,
K_03	A student can co-operate and work in a team; a	p	IS_K01, IS_K02,	T1A_K02, T1A_K03,



student is aware of the responsibility for the fulfilment of teamwork assignments including the ones connected with the diploma thesis.	IŚ_K09	T1A_K05,
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Module content:

1. Topics to be covered in the lectures

No.	Topics	Module outcome code
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2. Topics to be covered in the classes
3. Topics to be covered in the laboratories
4. Topics to be covered in the projects

No.	Topics	Module outcome code
1 – 2.	Instructions concerning the development of the diploma thesis. Formulating a thesis for the needs of the diploma project. The methodology of collecting data and documenting research results. The principles of developing design projects. Formulating conclusions. The principles of utilising reference sources and making citations.	W_02, U_02, K_02 K_03
3 – 5.	Discussing the development trends present in environmental engineering related to the subject of the diploma theses with a view to widening the knowledge of particular engineering issues.	W_03, U_01, U_02, K_01, K_02
6 – 9.	Presenting papers on the subjects connected with the diploma thesis (with the application of multimedia); the defence of the theses followed by a discussion.	W_01, U_01, K_01, K_02
10.	A final presentation of the diploma theses prior to submitting them.	U_03, K_01, K_02, K_3

Assessment methods

Module outcome code	Assessment methods <i>(Method of assessment; for module skills – reference to specific project, laboratory and similar tasks)</i>
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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	15
6	Contact hours: meetings with a project module leader	10
7	Contact hours: attendance at an examination	
8		
9	Number of contact hours	25 <i>(total)</i>
10	Number of ECTS credits for contact hours <i>(1 ECTS credit = 25-30 hours of study time)</i>	1
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>	
22	Total study time	
23	Total ECTS credits for the module <i>(1 ECTS credit = 25-30 hours of study time)</i>	
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>	

E. READING LIST

References	
Module website	