



MODULE SPECIFICATION

Module code	
Module title in Polish	Operat wodno-prawny
Module title in English	Aquatic Legal Survey
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	Water Supply, Treatment of Wastewater and Solid Waste
Organisational unit responsible for module delivery	Department of Water and Wastewater Engineering
Module co-ordinator	Lidia Bartkiewicz, PhD, Eng.
Approved by:	Lidia Dąbek, PhD hab., Professor of the Kielce University of Technology

B. MODULE OVERVIEW

Module type	Specific (core/programme-specific/elective HES*)
Module status	Optional 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	1

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

Mode of instruction	lectures	classes	laboratories	project	others
Total hours per	15				



Politechnika Świętokrzyska

WYDZIAŁ INŻYNIERII ŚRODOWISKA, GEOMATYKI I ENERGETYKI

semester					
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C. LEARNING OUTCOMES AND ASSESSMENT METHODS

Module aims	The aim of the module is to familiarise students with substantive fundamentals of aquatic legal survey as regards hydraulic and legal permits concerning water consumption and disposing of sewage utilised for the protection, shaping, and rationing of managing water resources in Poland as part of the specific use of water. Aquatic legal surveys are one of basic conditions shaping the process of designing, building, and exploiting pipeline and sewage systems (together with the objects and devices of hydraulic management).
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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 general knowledge as regards water and sewage systems of disposing of sewage and waste; moreover, a student knows the conditions of exploiting them.	I	IŚ_W09	T1A_W03, T1A_W04 T1A_W05 T1A_W06 T1A_W07
W_02	A student has fundamental knowledge as regards hydraulics and fluid mechanics.	I	IŚ_W12	T1A_W03 T1A_W04 T1A_W07
W_03	A student has fundamental knowledge as regards hydrogeology.	I	IŚ_W13	T1A_W03 T1A_W04 T1A_W07
U_01	A student can obtain information from the literature on the subjects; a student can also integrate the obtained information, interpret it, and draw conclusions.	I	IŚ_U01	T1A_U08 T1A_U09
U_02	A student can work individually and in a team.	I	IŚ_U02	T1A_U01 T1A_U05 T1A_U07
U_03	A student can prepare legal and technical documentation.	I	IŚ_U03	T1A_U02 T1A_U08
K_01	A student can formulate conclusions and describe the results of the obtained knowledge; a student is also responsible for the reliability of the obtained results	I	IŚ_K01 IŚ_K02 IŚ_K05	T1A_K02 T1A_K03 T1A_K04 T1A_K05
K_02	A student is aware of technological progress and the necessity of implementing BAT as regards water production and distribution, sewage disposal and neutralisation, and environmental protection.	I	IŚ_K03	T1A_K01 T1A_K02 T1A_K04

Module content:

1. Topics to be covered in the lectures
2. Topics to be covered in the classes
3. Topics to be covered in the laboratories

No.	Topics	Module outcome code
1-2	The criteria, legal and formal as well as substantive qualifications of the specific use of water. The types of legal and formal agreements, their range of application together with the mode and conditions of issuing and validity.	W_01 W_02 W_03



		U_01
3-4	Methodological fundamentals and subject range of preparing aquatic legal surveys with respect to text and graphics as well as the inference part for the selected types of legal and hydraulic permits for: underground and surface water intake; sewage disposal to water and soil basins; utilising hydraulic devices; agricultural utilisation of sewage; collecting sewage devices (belonging to other entities, industrial waste containing exceptionally hazardous substances for the water environment).	W_01 W_02 W_03 U_03 K_01 K_02
5-7	Substantive scientific and technical comments with reference to particular types of aquatic legal surveys together with their connection with the requirements with other legal and formal regulations (including the legislation concerning environmental protection, civil engineering legislation, and legislation referring to agricultural and forest soil protection).	K_01 K_02 U_02 U_03

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 test
W_02	A test
W_03	A test
U_01	A test
U_02	A test
U_03	A test
K_01	A test
K_02	A test

D. STUDENT LEARNING ACTIVITIES

ECTS summary		
	Type of student's activity	Student's workload
1	Participation in lectures	15
2	Participation in classes	
3	Participation in laboratories	
4	Participation in tutorials (2-3 times per semester)	2
5	Participation in project classes	
6	Project tutorials	
7	Participation in an examination or a final test	
8	Participation in a final test on laboratory classes	
9	Number of hours requiring a lecturer's assistance	17 <i>(sum)</i>
10	Number of ECTS credit points which are allocated for assisted work <i>(1 ECTS credit point=25-30 hours)</i>	0.68
11	Unassisted study of lecture subjects	4
12	Unassisted preparation for classes	
13	Unassisted preparation for tests	
14	Unassisted preparation for laboratory classes	



15	Preparing reports	
16	Preparing for a final test on laboratory classes	
17	Preparing a project or documentation	
18	Preparing for an examination or a final test	4
19	Preparing questionnaires	
20	Number of hours of a student's unassisted work	8 <i>(sum)</i>
21	Number of ECTS credit points which a student receives for unassisted work <i>(1 ECTS credit point=25-30 hours)</i>	0.32
22	Total number of hours of a student's work	25
23	ECTS credit points per module <i>1 ECTS credit point=25-30 hours</i>	1.0
24	Work input connected with practical classes Total number of hours connected with practical classes	0
25	Number of ECTS credit points which a student receives for practical classes (1 ECTS credit point=25-30 hours)	0

E. READING LIST

References	All current regulations (www.gov.sejm.pl)
Module website	