



MODULE SPECIFICATION

Module code	
Module title in Polish	<i>Prawodawstwo budowlane, wodne i w ochronie środowiska</i>
Module title in English	Building Law, Water Law and Environmental Protection Law (Constructional, Hydraulic, and Environmental Protection Legislation)
Module running from the academic year	2017/2018

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 Technology
Module co-ordinator	Katarzyna Górską, PhD, Eng.
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 6
Semester in the academic year in which the module is taught	Summer semester (winter semester/summer semester)
Pre-requisites	None (module code/module title, where appropriate)
Examination required	No (Yes/No)
ECTS credits	2

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

Mode of instruction	lectures	classes	laboratories	project	others
Total hours per	30				



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 legal norms, the function of law in environmental protection, the hierarchy of legal acts, the regulations of Acts of Parliament concerning environmental protection, hydraulic law, Civil Engineering Law, spatial land development, executive acts concerning Acts of Parliament, etc.
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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 is knowledgeable about the principles of applying legal regulations in civil and environmental engineering.	I	IŚ_W18	T1A_W02 T1A_W07 T1A_W08
W_02	A student has general knowledge which covers basic legal issues connected with the investment activity.	I	IŚ_W18	T1A_W02 T1A_W07 T1A_W08
W_03	A student has knowledge about the necessity of respecting legal aspects in technical and project documentation.	I	IŚ_W18	T1A_W02 T1A_W07 T1A_W08
U_01	A student can obtain knowledge from the literature on the subject, database; a student is aware of the necessity to update his/her knowledge on the basis of new and changing legal acts (taking environmental aspects into consideration).	I	IŚ_U02 IŚ_U25	T1A_U01 T1A_U05 T1A_U07 T1A_U09 T1A_U10
U_02	A student has the ability of continuous self-education in order to raise his/her professional competences as regards environmental engineering.	I	IŚ_U07	T1A_U05
U_03	A student can read and interpret the compliance of technical documentation with the binding legal acts.	I	IŚ_U04	T1A_U03 T1A_U08 T1A_U09
K_01	A student understands the necessity of broadening and improving his/her knowledge as regards constructional and hydraulic law, environmental protection; a student is aware of acting according to the principles of professional ethics.	I	IŚ_K03 IŚ_K08	T1A-K01 T1A-K02 T1A-K04 T1A-K05
K_02	A student understands the necessity of respecting legal regulations as well as passing information on the realised tasks in environmental engineering to the society.	I	IŚ_K06	T1A-K06 T1A-K07

Module content:

1. Topics to be covered in the lectures

No.	Topics	Module outcome code
1	<p>Introduction</p> <p>Discussing the syllabus of the lectures and the literature on the subject:</p> <ul style="list-style-type: none"> - general and introductory issues; the sources of law and its systems; the types of national legal regulations (Acts of Parliament), orders, ordinance, and resolutions); the norms as regards the subject and the related branches - the system of regulations functioning in the internal law as regards constructional, hydraulic, and environmental engineering legislation - a historical outline in terms of environmental protection as well as its branches and functions 	W_01 W_02 W_03 U_01 U_02 U_03 K_01



	- the links between hydraulic, constructional, and environmental protection laws together with the above-mentioned Acts of Parliament	K_02
2	Hydraulic Law: - general provisions (basic sectors of the hydraulic law), the definitions of notions - the law of water property, the fundamentals of the classification of waters and the resulting duties of water owners and other landed properties - water use: common, usual, and special together with substantive basics which concern the type of water use (sample water use); - the protection of water, drawing particular attention to: the principles of water protection, the zones as well as protection areas (springs and water intakes)	W_01 W_02 W_03 U_01 U_02 U_03 K_01 K_02
3	Hydraulic engineering, discussing general principles, sample engineering solutions: - the regulation of natural channels - the maintenance and exploitation of hydraulic objects, user's duties - hydraulic drainages and their role in shaping hydraulic management: basic and particular - the protection against drought and flood	W_01 W_02 W_03 U_01 U_02 U_03 K_01 K_02
4	Managing water resources in Poland and in the EU with short comments as well as with the discussion of organisational structures: - state and regional monitoring, its aim and issues: state and regional hydrological and meteorological service; state and regional hydrogeological service - water management planning - hydraulic and legal permits (their aim and tasks, the types of hydraulic and legal permits – a comment - economic instruments serving the purpose of water management (charges and fines) - hydraulic cadastre and hydraulic registers (their aims, range and examples) - water management control - hydraulic enterprises and floodbank unions (their tasks, organisations, supervision and control) - liability for damages - punitive, temporary, and final regulations	W_01 W_02 W_03 U_01 U_02 U_03 K_01 K_02
5	Civil Engineering Law: - main directions of amendments concerning the Civil Engineering Law - general regulations, definitions together with short comments - independent technical functions in civil engineering (their types) - civil engineering authorisations and the principles of obtaining them - the types of specialisations and requirements concerning people applying for authorisations without and with limits, civil engineering expert - the rights and duties of the participants of the constructional process (their role and tasks, i.e. investor's, supervising inspector's, designer's, and construction site manager's	W_01 W_02 W_03 U_01 U_02 U_03 K_01 K_02
6	Procedures prior to commencing constructional works: - the decision on land spatial development - construction permit - registering a construction site General comment to the above-mentioned proceedings	W_01 W_02 W_03 U_01 U_02 U_03 K_01 K_02
7	A construction site and accepting building objects to use: - the principles of legalising land use violation - maintain building objects - a building catastrophe (a comment and examples) - the bodies of architectural and constructional administration and state constructional	W_01 W_02 W_03 U_01 U_02



	supervision - penal liability in civil engineering	U_03 K_01 K_02
8	Environmental Protection Act A detailed analysis of the contents of the Environmental Protection Act as a comprehensive legal and formal regulation in terms of protection and shaping environment in the country.	W_01 W_02 W_03 U_01 U_02 U_03 K_01 K_02
9	Executive acts: - the fundamentals of monitoring surface and underground water - methodological fundamentals of creating the classes of water purity as regards surface and underground water together with other criteria, e.g. Vollenveider's; the purpose of water use for characteristic types of users (i.e. drinking water, fish farms, industry, sports and recreation, and agricultural irrigations) - protection zones (direct and indirect) of springs and water intakes (as regards underground and surface water) - methodological fundamentals of determining protection zones; the methods of use (developing protection zones); determining protection zones in terrain - guidelines concerning underground water protection against contamination with fertilizers and pesticides (plant protection substances) - a historical outline of determining protection zones - protection zones in spatial planning of cities	W_01 W_02 W_03 U_01 U_02 U_03 K_01 K_02
10	- water quality standards as regards drinking water and water for industrial purposes (also including breeding, bathing resorts, etc.) - discussing the standards of the above-mentioned legal acts (i.e. in terms of drinking water for people and animals as well as the quality of water for fertilizing) - the frequency of taking water samples for analyses and their range (complete and extended) - comparative analysis of the quality of drinking water in Poland and on the basis of EU regulations - assessing the possibilities of implementing national regulations with respect to the above - requirements concerning surface water to collective water supply and surface water in bathing resorts	W_01 W_02 W_03 U_01 U_02 U_03 K_01 K_02
11	- the requirements concerning sewage disposed in water of surface (soil); determining the size of sewage treatment plants as well as the level of sewage treatment for determining the above-mentioned need; methodological fundamentals of assessing the quality of untreated and treated sewage; the frequency of taking samples for analyses (a comment); the requirements concerning sewage treatment in Poland and in the EU - the conditions concerning industrial sewage transported urban sewage networks	W_01 W_02 W_03 U_01 U_02 U_03 K_01 K_02
12	- The requirements concerning sewage deposits for either agricultural or industrial use (qualitative requirements as regards sewage deposits drawing attention to fertilising properties, the contents of heavy metals and parasitological properties). The requirements concerning soils for agricultural or environmental purposes (the utilisation of sewage deposits according to the contents of heavy metals). Methodological fundamentals as regards the dosages of sewage deposits (both single and obtained over several years utilised in various purposes; monitoring as regards the quality of deposits and the degree of soil contamination; a comment for the directive; assessing the impact of sewage deposits on soil environment).	W_01 W_02 W_03 U_01 U_02 U_03 K_01 K_02
13	Legal regulations as regards the following: - air protections: the decision determining the quantity and types of permissible substances which can be introduced to the atmosphere; the register of pollutions exhausted into the	W_01 W_02 W_03



	atmosphere; charges for exhausting pollutions into the atmosphere - environmental protection: Environmental Protection Act, the forms of environmental protection, the protection of trees and shrubbery, permits concerning tree and shrubbery removal, the charges and fines for removing trees and shrubbery	U_01 U_02 U_03 K_01 K_02
14-15	Technical conditions which buildings ought to meet (their location, agricultural structures and their location, hydraulic structures and their location – selected issues. The issues concerning hydraulic fire protection in all types of the investment process. The scope and form of a civil engineering project (all phases of designing) as well as the information concerning OHS in project studies.	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 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 learning activity	Study time/ credits
1	Contact hours: participation in lectures	30
2	Contact hours: participation in classes	
3	Contact hours: participation in laboratories	
4	Contact hours: attendance at office hours (2-3 appointments per semester)	2
5	Contact hours: participation in project-based classes	
6	Contact hours: meetings with a project module leader	
7	Contact hours: attendance at an examination	2
8		
9	Number of contact hours	34 (total)
10	Number of ECTS credits for contact hours <i>(1 ECTS credit = 25-30 hours of study time)</i>	1,36
11	Private study hours: background reading for lectures	8
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	8
19		
20	Number of private study hours	16 (total)
21	Number of ECTS credits for private study hours <i>(1 ECTS credit = 25-30 hours of study time)</i>	0,64
22	Total study time	50
23	Total ECTS credits for the module <i>(1 ECTS credit = 25-30 hours of study time)</i>	2
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	1. Current regulations (www.gov.sejm.pl)