



### MODULE SPECIFICATION

Module code	
Module title in Polish	Technologia i organizacja robót instalacyjnych
Module title in English	Technology and Organisation of Installation Works
Module running from the academic year	2016/2017

### A. MODULE IN THE CONTEXT OF THE PROGRAMME OF STUDY

Field of study	
Level of qualification	first cycle (first cycle, second cycle)
Programme type	academic (academic/practical)
Mode of study	full-time (full-time/part-time)
Specialism	Sanitary Pipelines and Systems
Organisational unit responsible for module delivery	Department of Piped Utility Systems
Module co-ordinator	Agata Zwierzchowska, PhD, Eng.
Approved by:	Prof. Andrzej Kulickowski, PhD hab., Eng.

### B. MODULE OVERVIEW

Module type	programme-specific module (core/programme-specific/elective HES*)
Module status	optional module (compulsory/optional)
Language of module delivery	<b>Polish/English</b>
Semester in the programme of study in which the module is taught	semester 4
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	1

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

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



### C. LEARNING OUTCOMES AND ASSESSMENT METHODS

<b>Module aims</b>	The aim of the module is to familiarise students with technical documentation of investment; legal aspects which concern conducting works, the participants of a constructional enterprise as well as the preparation of a construction site for realisation.
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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 fundamental knowledge as regards technical documentation of the investment.	l	IS_WO2	T1A_W02 T1A_W07
W_02	A student knows formal and legal fundamentals of conducting works.	l	IS_W18	T1A_W02 T1A_W07 T1A_W08
W_03	A student has basic knowledge as regards the participants of the constructional enterprise.	l	IS_W18	T1A_W02 T1A_W07 T1A_W08
U_01	A student can prepare simple technical documentation of the investment.	l	IS_U04	T1A_U03 T1A_U08 T1A_U09
U_02	A student can prepare a simple schedule of constructional works.	l	IS_U03	T1A_U02 T1A_U08
K_01	A student is aware of improving and broadening his/her knowledge as regards the technology and organisation of works.	l	IS_K03	T1A_K01 T1A_K02 T1A_K04
K_02	A student understands the necessity of passing knowledge concerning the technology and organisation of works to the society.	l	IS_K06	T1A_K06 T1A_K07
K_03	A student follows according to a professional code of conduct.	l	IS_K08	T1A_K05

#### Module content:

##### 1. Topics to be covered in the lectures

No.	Topics	Module outcome code
1.	A constructional undertaking (participants).	W_03 K_01 K_01 K_03
2.	Formal and legal fundamentals of conducting works.	W_02 K_01 K_02 K_03
3.	Technical documentation of the investment. The principles of preparing and accepting project documentation.	W_01 U_01 K_01 K_02 K_03
4.	Preparing a construction site for realisation.	W_02 U_02 K_01 K_02 K_03
5.	Technological and organisational documentation. Planning the course of construction.	W_01 U_01



		U_02 K_01 K_02 K_03
6.	Construction site layout	W_02 U_02 K_01 K_02 K_03
7-8.	The methods of realising works.	W_02 K_01 K_02 K_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
K_01	A test. Participation in the discussion during the lecture
K_02	A test. Participation in the discussion during the lecture
K_03	Participation in the discussion during the lecture

### D. STUDENT LEARNING ACTIVITIES

ECTS summary		
	Type of learning activity	Study time/ credits
1	Contact hours: participation in lectures	<b>15</b>
2	Contact hours: participation in classes	
3	Contact hours: participation in laboratories	
4	Contact hours: attendance at office hours (2-3 appointments per semester)	<b>2</b>
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	<b>Number of contact hours</b>	<b>17</b> <i>(total)</i>
10	<b>Number of ECTS credits for contact hours</b> <i>(1 ECTS credit = 25-30 hours of study time)</i>	<b>0.68</b>
11	Private study hours: background reading for lectures	<b>3</b>
12	Private study hours: preparation for classes	
13	Private study hours: preparation for tests	<b>5</b>
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	<b>Number of private study hours</b>	<b>8</b> <i>(total)</i>
21	<b>Number of ECTS credits for private study hours</b> <i>(1 ECTS credit =25-30 hours of study time)</i>	<b>0.32</b>
22	<b>Total study time</b>	<b>25</b>
23	<b>Total ECTS credits for the module</b> <i>(1 ECTS credit =25-30 hours of study time)</i>	<b>1</b>
24	<b>Number of practice-based hours</b> <i>Total practice-based hours</i>	
25	<b>Number of ECTS credits for practice-based hours</b> <i>(1 ECTS credit =25-30 hours of study time)</i>	

### E. READING LIST

References	<ol style="list-style-type: none"><li>1. Sutt J., Lill I., Mürsepp O.: The engineer's manual of construction site planning. Wiley Blackwell, 2013.</li><li>2. <a href="#">Panchdhari</a> A.C.: <i>Water Supply And Sanitary Installations. New Age International, 2005.</i></li><li>3. <i>American Water Works Association: PVC Pipe-Design and Installation. AWWA Manual M23, second edition, 2002</i></li><li>4. Howard A.: Pipeline Installation 2.0. Relativity Publishing; 2nd edition, 2015</li></ol>
Module website	