

## MODULE SPECIFICATION

Module code	
Module title in Polish	<b>Podstawy normalizacji</b>
Module title in English	<b>Introduction to Standardisation</b>
Module running from the academic year	<b>2016/2017</b>

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

Field of study	<b>Civil Engineering</b>
Level of qualification	<b>First cycle</b> <i>(first cycle, second cycle)</i>
Studies profile	<b>Academic</b> <i>(academic/practical)</i>
Mode of study	<b>Full-time</b> <i>(full-time / part-time)</i>
Specialism	
Organisational unit responsible for module delivery	<b>The Department of Industrial Laser Systems</b>
Module co-ordinator	<b>Bogusław Grabas, PhD, Eng.</b>
Approved by	<b>Marek Iwański, Professor</b>

### B. MODULE OVERVIEW

Module type	<b>Elective HES</b> <i>(core/programme-specific/elective HES*)</i>
Module status	<b>Compulsory module</b> <i>(compulsory / non-compulsory)</i>
Language of module delivery	<b>English</b>
Semester in the programme of study in which the module is taught	<b>Semester 2</b>
Semester in the academic year in which the module is taught	<b>Summer semester</b> <i>(winter / summer)</i>
Pre-requisites	<b>None</b> <i>(module code/module title, where appropriate)</i>
Examination required	<b>No</b> <i>(yes / no)</i>
ECTS credits	<b>0</b>

Mode of instruction	lectures	classes	laboratories	project	others
<b>Total hours per semester</b>	<b>8</b>				

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

### C. LEARNING OUTCOMES AND ASSESSMENT METHODS

<b>Module aims</b>	The aim of the module is to acquaint students with basic knowledge on the notions and procedures as regards national, European, and international standardisation; moreover, students will also acquire knowledge on the significance of quality management norms and data safety.
--------------------	--

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 knowledge on the significance of norms, creating norms, complying with norms, the structure and functioning of standardisation units as well as practical utilisation of norms.	l	B_W08 B_W14	T1A_W03 T1A_W04 T1A_W07 T1A_W08 T1A_W09
W_02	A student has knowledge on the significance of ISO norms in quality management and data safety in enterprises.	l	B_W08 B_W14	T1A_W03 T1A_W04 T1A_W07 T1A_W08 T1A_W09
U_01	A student is able to obtain information on norms and databases; a student can also correctly interpret the contents of norms.	l	B_U29	T1A_U01 T1A_U03 T1A_U04 T1A_U05 T1A_U06 T1A_U07 T1A_U10
K_01	A student understands the significance of norms as an essential tool of technological progress on the national, regional, and international level.	l	B_K08	T1A_K02 T1A_K05

#### Module content:

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

No.	Topics	Module outcome code
1	The history of standardisation. The notions as well as definitions applied in national, European, and international standardisation.	W_01 U_01 K_01
2	Standardisation policy and the significance of norms in the EU.	W_01 K_01
3	The selected issues of practical standardisation.	W_01 K_01
4	The terminology and significance of ISO norms in quality management as well as data safety.	W_01 W_02 K_01

2. Topics to be covered in the classes
3. Topics to be covered in the laboratories
4. Topics to be covered in the projects

#### 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 written test

W_02	A written test
U_01	A written test
K_01	A written test

### C. STUDENT LEARNING ACTIVITIES

ECTS summary		
	Type of learning activity	Study time/ credits
1	Contact hours: participation in lectures	<b>8</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)	
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>8</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</b>
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	<b>Number of private study hours</b>	<b>0</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</b>
22	<b>Total study time</b>	<b>8</b>
23	<b>Total ECTS credits for the module</b> <i>(1 ECTS credit =25-30 hours of study time)</i>	<b>0</b>
24	<b>Number of practice-based hours</b> <i>Total practice-based hours</i>	<b>0</b>
25	<b>Number of ECTS credits for practice-based hours</b> <i>(1 ECTS credit =25-30 hours of study time)</i>	<b>0</b>