MODULE SPECIFICATION

Module code	
Module title in Polish	**Podstawy normalizacji**
Module title in English	**Principles of Standardisation**
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	**The Department of Industrial Laser Systems**
Module co-ordinator	**Bogusław Grabas, 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	**English**
Semester in the programme of study in which the module is taught	semester 2
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	

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

Mode of instruction	lectures	classes	laboratories	project	others
Total hours per semester	8				

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C. LEARNING OUTCOMES AND ASSESSMENT METHODS

Module aims	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	GiK_W01	T1A_W01 T1A_W02
W_02	A student has knowledge on the significance of ISO norms in quality management and data safety in enterprises.	l	GiK _W19	T1A_W08 T1A_W07 T1A_W11
U_01	A student is able to obtain information on norms and databases; a student can also correctly interpret the contents of norms.	l	GiK _U02	T1A_U01 T1A_U05 T1A_U07
K_01	A student understands the significance of norms as an essential tool of technological progress on the national, regional, and international level.	l	GiK _K09	T1A_K02

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.	GiK _W01
2	Standardisation policy and the significance of norms in the EU.	GiK _W01 GiK _K09
3	The selected issues of practical standardisation.	GiK _W01 GiK _U02
4	The terminology and significance of ISO norms in quality management as well as data safety.	GiK _W01 GiK _W19

2. Topics to be covered in the classes

3. Topics to be covered in the laboratories

Assessment methods

Module outcome code	Assessment methods *(Method of assessment; for module skills – reference to specific project, laboratory and similar tasks)*
W_01	A written test
W_02	A written test
U_01	A written test
K_01	A written test

D. STUDENT LEARNING ACTIVITIES

ECTS summary		
	Type of learning activity	**Study time/ credits**
1	Contact hours: participation in lectures	**8**
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	**Number of contact hours**	**8** *(total)*
10	**Number of ECTS credits for contact hours** *(1 ECTS credit =25-30 hours of study time)*	
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**	*(total)*
21	**Number of ECTS credits for private study hours** *(1 ECTS credit =25-30 hours of study time)*	

22	**Total study time**	**8**
23	**Total ECTS credits for the module** *(1 ECTS credit =25-30 hours of study time)*	**0**
24	**Number of practice-based hours** *Total practice-based hours*	
25	**Number of ECTS credits for practice-based hours** *(1 ECTS credit =25-30 hours of study time)*	

E. READING LIST

References	
Module website	