

FACULTY OF ELECTRICAL
ENGINEERING**SUBJECT CARD**

Name in Polish: **Normalizacja i prawo inżynierskie**
 Name in English: **Standardization and engineering law**
 Main field of study (if applicable): **Electrical Engineering**
 Specialization (if applicable): **Industrial Electrical Engineering**
 Level and form of studies: **2nd level, part-time**
 Kind of subject: **optional / university-wide**
 Subject code: **PRR051271**
 Group of courses: **NO**

	Lecture	Classes	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU):	11				
Number of hours of total student workload (CNPS):	25				
Form of crediting:	crediting with grade				
For group of courses mark (X) final course:					
Number of ECTS points:	1				
including number of ECTS points for practical (P) classes :					
including number of ECTS points for direct teacher-student contact (BK) classes:	0.70				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES

1. Basics of technology and law.
2. Awareness of continuous training and professional development.

SUBJECT OBJECTIVES

- C1. Understanding the basic elements of law necessary to engineering work in the field of: - technical standardization; - responsibility of the producer and seller for the product and its safety; - essential requirements of EU directives relating to the products.
- C2. Understanding the principles of standardization and the use of standards.
- C3. Acquisition of general knowledge of product standards, quality and safety management systems.
- C4. Awareness of the role of standardization and law in engineering activity.

SUBJECT LEARNING OUTCOMES*relating to knowledge:*

- PEU_W01 He knows the basics of engineering law. He understands the concepts of standardization and its importance in engineering practice. He is able to explain the procedures for standards development.
- PEU_W02 He understands what is the legal responsibility for the safety and quality of products.
- PEU_W03 He is able to describe how to carry out assessment of products conformity with the requirements of EU directives.

*relating to skills:**relating to social competences:*

- PEU_K01 He is aware of the importance of non-technical aspects of engineering activity

PROGRAMME CONTENT		
Form of classes - lecture		Number of hours:
Lec 1	Legal considerations of engineering and legal basis for standardization.	2
Lec 2	Procedures for the development of standards. Standardization of products.	2
Lec 3	Normalization in quality management and conformity assessment of products with EU directives.	2
Lec 4	Legal responsibility for the products and their safety. The Directive on general product safety.	2
Lec 5	Low Voltage Directive. Assessment of product conformity with the requirements of EU directives, regulations and standards.	2
Lec 6	Written test.	1
Total hours:		11

TEACHING TOOLS USED
N1. Lecture with multimedia presentation.
N2. Consultations.
N3. Self-education.

EVALUATION OF SUBJECT LEARNING OUTCOMES ACHIEVEMENT		
Evaluation <i>F – forming (during semester) P – concluding (at semester end)</i>	Educational effect number	Way of evaluating educational effect achievement
F1(w)	PEU_W01 PEU_W02 PEU_W03 PEU_K01	Written test.
P(w)	P=F1	

PRIMARY AND SECONDARY LITERATURE
PRIMARY LITERATURE: [1] Schweitz T. (red.) i inni: Normalizacja. Wyd. PKN, Warszawa 2012. [2] Ustawa z dn. 12.09.2002 r. o normalizacji. Dz.U. z 2002 r. nr. 169, poz. 1386 z późniejszymi zmianami. [3] Ustawa z dn. 23.04.1964 r. Kodeks Cywilny. Dz. U. Z 1964 r. nr 16, poz. 93 z późniejszymi zmianami. [4] Dyrektywy nowego podejścia. http://www.mg.gov.pl/Wspieranie+przedsiębiorczosci/Bezpieczenstwo+produktow+i+uslug/Ocena+zgodnosci/Dyrektywy+Nowego+Podejscia . [5] Niebieski przewodnik - wdrażanie przepisów dotyczących produktów w Unii Europejskiej, 2014. http://www.mg.gov.pl/files/upload/7904/Blue%20Guide%202014_pl.pdf . [6] Ustawa z dn. 12.12.2003 r. o ogólnym bezpieczeństwie produktów. Dz. U. z 2003 r. nr 229, poz. 2275. [7] Rozporządzenie ministra gospodarki z dn. 21.08 2007 w sprawie zasadniczych wymagań dla sprzętu elektrycznego. Dz. U. z 2007 r. nr 155, poz. 1089. [8] Ustawa z dn. 30.08.2002 r. o systemie oceny zgodności. Dz. U. z 2002 r. nr 166, poz. 1360.
SECONDARY LITERATURE: [1] Norma PN-EN 45020:2009 Normalizacja i dziedziny związane. Terminologia ogólna. [2] Norma PN-EN ISO 9000:2006 Systemy zarządzania jakością. Podstawy i terminologia. [3] Norma PN-EN ISO 9000:2009 Systemy zarządzania jakością. Wymagania. [4] Norma PN-EN ISO 9000:2010 Zarządzanie ukierunkowane na trwały sukces organizacji. Podejście wykorzystujące zarządzanie jakością. [5] Norma PN-EN ISO 9000:2005 Systemy zarządzania środowiskowego. Wymagania i wytyczne stosowania. [6] Komisja Europejska: Wdrażanie dyrektyw opartych na koncepcji nowego globalnego podejścia - Przewodnik. www.mgip.gov.pl . [7] Gnala B. (red.) i inni: Podstawy prawa dla ekonomistów. Wyd. Oficyna Wolter Kluwer Biznes, Warszawa 2011. [8] Siuda W.: Elementy prawa dla ekonomistów. Wyd. SCRIPTUM, Poznań 2009

SUBJECT SUPERVISOR
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