

FACULTY OF ELECTRICAL
ENGINEERING**SUBJECT CARD**

Name in Polish: **Prawo inżynierskie**
 Name in English: **Engineering law**
 Main field of study (if applicable): **Electrical Engineering**
 Specialization (if applicable): **Renewable Energy Sources**
 Level and form of studies: **2nd level, full-time**
 Kind of subject: **optional / university-wide**
 Subject code: **PRR041217**
 Group of courses: **NO**

	Lecture	Classes	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU):	15				
Number of hours of total student workload (CNPS):	30				
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. He has basic knowledge of application of the law in social relations, legal entities and natural persons, obtained at the level of secondary education programs specified in civics and basics of entrepreneurship.
2. He has 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. - right on measures.
- C2. Realising the importance of knowledge of the law in the engineering activity.

SUBJECT EDUCATIONAL EFFECTS*relating to knowledge:*

- PEK_W01 He knows the basics of engineering law. He understands the concepts of standardization and its importance in engineering practice. He understands what is the legal responsibility for the safety and quality of products.
- PEK_W02 He is able to explain the concept of the EU new approach directives and their implementation into Polish law. He is able to describe how to carry out assessment of products conformity with the requirements of EU directives.
- PEK_W03 He knows the right on measures and EU rules on measuring instruments.

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

- PEK_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 activity.	2
Lec 2	Standardization and its legal basis.	2
Lec 3	Legal responsibility of the manufacturer, importer and seller for the products and their safety.	2
Lec 4	The Directive on general product safety.	2
Lec 5	Directive of the European Union's new approach and its implementation into the Polish legislation. Low voltage directive.	2
Lec 6	Assessment of product conformity with the requirements of EU directives, regulations and standards.	2
Lec 7	Legal metrology and Law on Measures. EU Directive on measuring instruments.	2
Lec 8	Written test.	1
Total hours:		15

TEACHING TOOLS USED

- N1. Lecture with multimedia presentation.
N2. Consultations.

EVALUATION OF SUBJECT EDUCATIONAL EFFECTS ACHIEVEMENT

Evaluation <i>F - forming (during semester) P - concluding (at semester end)</i>	Educational effect number	Way of evaluating educational effect achievement
F1(w)	PEK_W01 PEK_W02 PEK_W03 PEK_K01	Written test.
P(w)	P=F1	

PRIMARY AND SECONDARY LITERATURE**PRIMARY LITERATURE:**

- [1] Siuda W.: Elementy prawa dla ekonomistów. Wyd. SCRIPTUM, Poznań 2009.
[2] Schweitz T. (red.) i inni: Normalizacja. Wyd. PKN, Warszawa 2012.
[3] Ustawa z dn. 12.09.2002 r. o normalizacji. Dz.U. z 2002 r. nr. 169, poz. 1386 z późniejszymi zmianami.
[4] Ustawa z dn. 23.04.1964 r. Kodeks Cywilny. Dz. U. Z 1964 r. nr 16, poz. 93 z późniejszymi zmianami.
[5] Dyrektywy nowego podejścia.
<http://www.mg.gov.pl/Wspieranie+przedsiebiorczosci/Bezpieczenstwo+produktow+i+uslug/Ocena+zgodnosci/Dyrektywy+Nowego+Podejscia>.
[6] Niebieski przewodnik - wdrażanie przepisów dotyczących produktów w Unii Europejskiej, 2014.
http://www.mg.gov.pl/files/upload/7904/Blue%20Guide%202014_pl.pdf.
[7] Ustawa z dn. 12.12.2003 r. o ogólnym bezpieczeństwie produktów. Dz. U. z 2003 r. nr 229, poz. 2275.
[8] Rozporządzenie ministra gospodarki z dn. 21.08 2007 w sprawie zasadniczych wymagań dla sprzętu elektrycznego. Dz. U. z 2007 r. nr 155, poz. 1089.
[9] Ustawa z dn. 30.08.2002 r. o systemie oceny zgodności. Dz. U. z 2002 r. nr 166, poz. 1360 z późniejszymi zmianami.
[10] Ustawa z dn.11.05.2001 r. Prawo o miarach. Dz. U. z 2001 r. nr 63,poz.636. z późniejszymi zmianami.

SECONDARY LITERATURE:

- [1] Zdziennicka-Koczacha G.: Kodeks cywilny z komentarzem 2012. Wyd. SIGMA, Skierniewice 2012.
[2] Komisja Europejska: Wdrażanie dyrektyw opartych na koncepcji nowego globalnego podejścia - Przewodnik.
http://www.mg.gov.pl/NR/rdonlyres/BBABE9C1-4EC3-4C27-90DC-18213DDF0A32/56883/przewodnik_Dyr_nowego_podejscia1999.pdf
[3] Gnala B. (red.) i inni: Podstawy prawa dla ekonomistów. Wyd. Oficyna Wolter Kluwer Biznes, Warszawa 2011.

SUBJECT SUPERVISOR

Michał Lisowski, michal.lisowski@pwr.edu.pl

MATRIX OF CORRELATION BETWEEN EDUCATIONAL EFFECTS FOR SUBJECT
PRR041217 - Engineering law
AND EDUCATIONAL EFFECTS FOR MAIN FIELD OF STUDY **Electrical Engineering**
AND SPECIALIZATION **Renewable Energy Sources**

Subject educational effect	Correlation between subject educational effect and educational effects defined for main field of study and specialization (if applicable)	Subject objectives	Programme content	Teaching tool number
PEK_W01	K2ETK_W07	C.1 C.2	Lec1 Lec2 Lec3 Lec4	N.1 N.2
PEK_W02	K2ETK_W07	C.1 C.2	Lec5 Lec6	N.1 N.2
PEK_W03	K2ETK_W07	C.1 C.2	Lec7	N.1 N.2
PEK_K01	K2ETK_K03 K2ETK_K05	C.1 C.2	Lec1 Lec2 Lec3 Lec4 Lec5 Lec6 Lec7 Lec8	N.1 N.2