

FACULTY OF ELECTRICAL
ENGINEERING**SUBJECT CARD**

Name in Polish: **Sieci komputerowe**
 Name in English: **Computer networks**
 Main field of study (if applicable): **Electrical Engineering**
 Specialization (if applicable):
 Level and form of studies: **1st level, full-time**
 Kind of subject: **optional**
 Subject code: **ELR041308**
 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):			60		
Form of crediting:			crediting with grade		
For group of courses mark (X) final course:					
Number of ECTS points:			2		
including number of ECTS points for practical (P) classes :			2		
including number of ECTS points for direct teacher-student contact (BK) classes:			1.40		

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES

1. Has basic computer literacy
2. Is able to recognise key hardware and software parameters of personal computers

SUBJECT OBJECTIVES

- C1. basic knowledge about transmission preparation and ICT data processing technology
 C2. skills in the use of network operating systems
 C3. preparation for problem solving in a design team

SUBJECT EDUCATIONAL EFFECTS*relating to knowledge:**relating to skills:*

PEK_U01 is able to source information about establishing connection from literature and other sources

PEK_U02 is able to exploit built-in operating system communication procedures

relating to social competences:

PEK_K01 is able to evaluate design team performance and perform a critical analysis

PROGRAMME CONTENT

Form of classes - laboratory		Number of hours:
Lab 1	Software as a service sessions in network systems	2
Lab 2	Information uniks commands	2
Lab 3	Network sharing of files and folders	2
Lab 4	Project management - teamwork	2
Lab 5	Layer programming - shell variables	2
Lab 6	Process control	2
Lab 7	Event monitoring and identification	2
Lab 8	Laboratory assessment	1
Total hours:		15

TEACHING TOOLS USED

- N1. introductory lecture with slideshow and elements of e-learning
 N2. students prepare interim reports electronically: e-learning platform: <http://eportal.eny.pwr.edu.pl>
 N3. consultation

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
F(L)	PEK_U01 PEK_U02 PEK_K01	Drafting interim papers electronically. E-learning platform http://eportal.eny.pwr.edu.pl
P(L)	P=F1	

PRIMARY AND SECONDARY LITERATURE

PRIMARY LITERATURE:

- [1] Przewodnik po sieciach lokalnych, Greg Nunemacher, MIKOM (any edition)
 [2] TCP/IP. Administracja sieci, Craig Hunt, OW READ ME (any edition)
 [3] E-learning platform: <http://eportal.eny.pwr.edu.pl>
 [4] Net-literature

SECONDARY LITERATURE:

- [1] Nowoczesne sieci miejskie, J. Jaworski, R. Morawski, J. Olędzki, WNT (any edition)
 [2] Programowanie w DELPHI, wersja 5.0 lub późniejsze, (any edition)
 [3] JAVA Kompendium programisty, Helion, (any edition)

SUBJECT SUPERVISOR

Jarosław Szymańda, jaroslaw.szymanda@pwr.edu.pl

MATRIX OF CORRELATION BETWEEN EDUCATIONAL EFFECTS FOR SUBJECT **ELR041308 - Computer networks** AND EDUCATIONAL EFFECTS FOR MAIN FIELD OF STUDY **Electrical Engineering**

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_U01	K1ETK_U13	C.1 C.2 C.3	Lab1 Lab2 Lab3 Lab4 Lab5 Lab6 Lab7	N.1 N.2 N.3
PEK_U02	K1ETK_U13	C.1 C.2 C.3	Lab1 Lab2 Lab3 Lab4 Lab5 Lab6 Lab7	N.1 N.2 N.3
PEK_K01	K1ETK_K05 K1ETK_K06	C.3	Lab4 Lab6 Lab8	N.1 N.2 N.3