

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, part-time**
 Kind of subject: **optional**
 Subject code: **ELR041364**
 Group of courses: **NO**

	Lecture	Classes	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU):			10		
Number of hours of total student workload (CNPS):			108		
Form of crediting:			crediting with grade		
For group of courses mark (X) final course:					
Number of ECTS points:			4		
including number of ECTS points for practical (P) classes :			4		
including number of ECTS points for direct teacher-student contact (BK) classes:			2.80		

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. Information unix commands	2
Lab 2	Network sharing of files and folders	2
Lab 3	Project management - teamwork	2
Lab 4	Layer programming - shell variables	2
Lab 5	Process control	1
Lab 6	Laboratory assessment	1
Total hours:		10

TEACHING TOOLS USED

- N1. students code case-based programmes both individually and in teams
 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)</i> <i>P – concluding (at semester end)</i>	Educational effect number	Way of evaluating educational effect achievement
F1(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
ELR041364 - 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	N.1 N.2 N.3
PEK_U02	K1ETK_U13	C.1 C.2 C.3	Lab1 Lab2 Lab3 Lab4 Lab5	N.1 N.2 N.3
PEK_K01	K1ETK_K05 K1ETK_K06	C.3	Lab3 Lab5 Lab6	N.1 N.2 N.3