

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: **ELR051364**  
 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):			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 LEARNING OUTCOMES***relating to knowledge:**relating to skills:*

PEU\_U01 is able to source information about establishing connection from literature and other sources

PEU\_U02 is able to exploit built-in operating system communication procedures

*relating to social competences:*

PEU\_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:		<b>10</b>

**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 LEARNING OUTCOMES ACHIEVEMENT**

<b>Evaluation</b> <i>F - forming (during semester)</i> <i>P - concluding (at semester end)</i>	<b>Educational effect number</b>	<b>Way of evaluating educational effect achievement</b>
F1(L)	PEU_U01 PEU_U02 PEU_K01	Drafting interim papers electronically. E-learning platform <a href="http://eportal.eny.pwr.edu.pl">http://eportal.eny.pwr.edu.pl</a>
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**

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