



The Faculty of:	Faculty of Electrical and Computer Engineering
Field of study:	Computer Science
Speciality:	
Study degree (BSc, MSc):	First circle full time studies

COURSE UNIT DESCRIPTION

Course title:	Computer networks II
Lecturer responsible for course: dr. Kazimierz Lal	
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Department : Department of Electrical Engineering and Informatics	

Semester	Weekly load	Type of classes				Number of ECTS credits
		L Lectures	C Theoretical Classes	Lb Laboratory	P Project	
7	2	15		15		4

Course description
<p>Lecture: TCP/IP protocol - version 6: IP v.6 datagram structure, datagram segmentation, addressing system, IP v.6 and Ethernet, routing, transmission stream reservation mechanism, quality of service, Voice over IP.</p> <p>Selected network operating systems - installation and configuration: Microsoft Windows network servers, Novell network servers.</p> <p>Directory services in computer networks: e-Directory, Active Directory and LDAP.</p> <p>Security in computer networks.</p> <p>Planning, implementation and using computer network - examples.</p> <p>Virtual machines and cluster network systems.</p>
<p>Classes:</p>
<p>Laboratory: Configuration and tests selected Ethernet switches – IPv.6.</p> <p>Introduction to routing problems – TCP/IPv.6 networks.</p>

e-Directory installation and configuration.

Active Directory installation and configuration.

Tests of selected tools to the security network systems.

Tests of selected tools to the virtually network servers and workstations.

Credit - test.

Project:

Objectives of the course

Student should obtain theoretical knowledge and practical understanding of subject and skill of maintaining computer networks.

Examination method

Final examination, oral or written test on each laboratory, credit test from laboratory.

Bibliography

Sportack M.: Sieci komputerowe Księga eksperta, Wydanie II – poprawione, HELION, 2004; Akademia CISCO. Pierwszy i drugi rok nauki. Mikom 2004; Akademia CISCO. Trzeci i czwarty rok nauki. Mikom, 2005; Akademia CISCO. VIP; 3Com. Dokumentacje techniczne przełączników i ruterów; Hunt C.: TCP/IP - Administracja sieci, RM, 2003; Lal K., Rak T.: Linux a technologie klastrowe, PWN-MIKOM, 2005; Lal K., Rak T.: Po prostu własny serwer internetowy, HELION, 2002; Rak T.: Tworzenie sieci komputerowej. Ćwiczenia praktyczne, HELION, 2006.

Lecturer signature	
Head of Department signature	
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