



MODULE DESCRIPTION

Module code	
Module name	Administracja Sieciami Komputerowymi
Module name in English	Computer Networks Administration
Valid from academic year	2012/2013

MODULE PLACEMENT IN THE SYLLABUS

Subject	Computer Science
Level of education	1st degree <i>(1st degree / 2nd degree)</i>
Studies profile	General <i>(general / practical)</i>
Form and method of conducting classes	Full-time <i>(full-time / part-time)</i>
Specialisation	Information Systems
Unit conducting the module	The Department of Control and Management Systems
Module co-ordinator	Jarosław Wikarek, PhD, Eng.
Approved by:	

MODULE OVERVIEW

Type of subject/group of subjects	Major <i>(basic / major / specialist subject / conjoint / other HES)</i>
Module status	Non-compulsory <i>(compulsory / non-compulsory)</i>
Language of conducting classes	Polish
Module placement in the syllabus - semester	6th semester
Subject realisation in the academic year	Summer semester <i>(winter / summer)</i>
Initial requirements	Operating Systems <i>(module codes / module names)</i>
Examination	No <i>(yes / no)</i>
Number of ECTS credit points	5

Method of conducting classes	Lecture	Classes	Laboratory	Project	Other
Per semester	30		30		



TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS

Module target	The aim of the module is to familiarise students with the following: the principles and standards concerning network communication; the configurations of LAN; LAN-WAN communication; routers; broadband networks; analogue and digital internetwork communication devices; remote network management; and safety policy in computer networks. A student ought to master indispensable knowledge concerning building and administering a local computer network. In addition, a student should learn basic connection methods of combining local area networks into wide area networks together with the mechanisms and methods of protecting the above-mentioned networks against remote attacks.
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Effect symbol	Teaching results	Teaching methods (l/c/lp/other)	Reference to subject effects	Reference to effects of a field of study
W_01	A student knows the concepts connected with administering as well as managing area networks.	l/l	K_W10	T1A_W04 T1A_W07 InzA_W02 InzA_W05
W_02	A student is familiar with the principles of operating as regards network devices.	l/l	K_W10	T1A_W04 T1A_W07 InzA_W02 InzA_W05
W_03	A student knows network services.	l/l	K_W09 K_W10	T1A_W03 T1A_W04 T1A_W07 InzA_W02, InzA_W05
W_04	A student is knowledgeable about the configuration of network devices.	l/l	K_W10	T1A_W04 T1A_W07 InzA_W02 InzA_W05
U_01	A student is able to configure a workstation to work in a network.	l/l	K_W09 K_W10 K_U16	T1A_W03 T1A_W04 T1A_W07 InzA_W02, InzA_W05 T1A_U07 T1A_U16 InzA_U08
U_02	A student is capable of configuring network service servers.	l/l	K_W09 K_W10 K_U16	T1A_W03 T1A_W04 T1A_W07 InzA_W02, InzA_W05 T1A_U07 T1A_U16 InzA_U08
U_03	A student can remotely manage workstations in a network.	l/l	K_W09 K_W10 K_W17 K_U16	T1A_W03 T1A_W04 T1A_W07 T1A_W08 T1A_W10 InzA_W02, InzA_W05 T1A_U07



				T1A_U16 InzA_U08
K_01	A student can determine activity priorities.	I	K_U02	T1A_U02
K_02	A student can work in a team and solve tasks collectively.	I	K_U02	T1A_U02

Teaching contents:

Teaching contents as regards lectures

Lecture number	Teaching contents	Reference to teaching results for a module
1	Introduction to the subject.	W_01
2,3	TCP/IP protocol.	W_01 W_02 W_04 U_01
4,5,6	Routers.	W_01 W_02 W_04 U_01
7,8,9,10	Unix – Network Service Daemons.	W_01 W_03 W_04 U_01 U_02
11,12	Novell.	W_01 W_03 W_04
13	Divulgations, multicasting, and internetwork addressing.	W_01 W_02 W_04 U_01 U_02 U_03
14,15	Remote access.	W_01 W_02 W_04 U_03

Teaching contents as regards laboratory classes

Laboratory classes are conducted in teams of two students.

Laboratory class number	Teaching contents	Reference to teaching results for a module
1	Introduction to laboratory classes; familiarising students with the laboratory environment and the principles of work.	K_01, K_02
2,3	Networks in operating systems.	W_01 W_02 W_03 W_04 K_01 K_02
4,5	Data transmission.	W_01 W_02 W_03 K_01 K_02
5,6,7	Routers.	W_01 W_02 W_03 W_04 U_01 K_01 K_02
7,8,9	Unix – Network Service Daemons.	W_01 W_02 W_03 U_01 U_02 K_01 K_02
10,11	Novell.	W_01 W_02 W_03 U_01 K_01 K_02
12,13,14	Remote access.	W_01 W_02 W_03 W_04 U_03 K_01 K_02
13,14,15	Area network safety.	W_01 W_02 W_03 W_04 K_01 K_02

The methods of assessing teaching results

Effect symbol	Methods of assessing teaching results (assessment method, including skills – reference to a particular project, laboratory assignments, etc.)
W_01	A final test on lectures; reports on laboratory classes



Projekt współfinansowany ze środków Unii Europejskiej w ramach Europejskiego Funduszu Społecznego

W_02	A final test on lectures; reports on laboratory classes
W_03	A final test on lectures; reports on laboratory classes
W_04	A final test on lectures; reports on laboratory classes
W_05	A final test on lectures; reports on laboratory classes
U_01	Reports on laboratory classes
U_02	Reports on laboratory classes
K_01	Reports on laboratory classes
K_02	Reports on laboratory classes

STUDENT'S INPUT

ECTS credit points		
	Type of student's activity	Student's workload
1	Participation in lectures	30
2	Participation in classes	
3	Participation in laboratories	30
4	Participation in tutorials (2-3 times per semester)	5
5	Participation in project classes	
6	Project tutorials	
7	Participation in an examination	
8		
9	Number of hours requiring a lecturer's assistance	65 <i>(sum)</i>
10	Number of ECTS credit points which are allocated for assisted work <i>(1 ECTS credit point=25-30 hours)</i>	2.6
11	Unassisted study of lecture subjects	10
12	Unassisted preparation for classes	
13	Unassisted preparation for tests	
14	Unassisted preparation for laboratories	15
15	Preparing reports	15
16	Preparing for a final laboratory test	5
17	Preparing a project or documentation	5
18	Preparing for an examination	10
19	Preparing questionnaires	
20	Number of hours of a student's unassisted work	60 <i>(sum)</i>
21	Number of ECTS credit points which a student receives for unassisted work <i>(1 ECTS credit point=25-30 hours)</i>	2.4
22	Total number of hours of a student's work	125
23	ECTS credit points per module <i>1 ECTS credit point=25-30 hours</i>	5
24	Work input connected with practical classes <i>Total number of hours connected with practical classes</i>	80
25	Number of ECTS credit points which a student receives for practical classes <i>(1 ECTS credit point=25-30 hours)</i>	3.2