Obuda University			Donát H Enginee	Donát Bánki Faculty of Mechanical and Safety		
Subject name, code: IT Networks, BGRIH1KTNC Credits: 4 Full time course 2014/2015 year IL semester						
Faculties: Machanical and Safety Engineering						
Subject Leader:	Krisztina T	Kriszting Tibensz	ky-Forika PhD			
Subject Leader.	Forika PhE	Forika PhD.		instructor inisztnia ribenszky-rorika rihb.		
Study conditions: Informatics I, Informatics II						
Ours per week:	Performance::	Performance:: Practice.: 1		Labor practice: 2	Consultation	
Semester	mid-semester mark					
closing(required)						
Syllabus						
and accessibilities, fundamental requirements and basic concepts of network address management and securing						
data and authentication	on.	T *	4 . 1. 1 .			
Educational week	Themes					
1.	1. History of IT networks, targets, standards. The structure of IT networks. Virtual machines. ISO OSI reference Modell.					
2.	IT, like utility. TCP/IP reference Modell. Basic networking concepts. Characteristics of IPV4, IPV6 protocol.					
3.	Configuring DI	Configuring DHCP server, types of services.				
4.	Internet addresses, DNS. Telecommunication networks. Types of access.					
5.	Wireless Networking configuring print services					
6	Networking I/O. Distributed file systems.					
7.	1.classroom test					
8.	Update services (WSUS).					
9.	Securing Network Traffic with IPsec.					
10	Domain matrix, Active Directory.					
11.	Network Access Protection (NAP)					
12.	Conditions of activation and recovery.					
13.	2.classroom test					
14.	Correction of unsuccessful tests.					
Study conditions (test, essay)						
Educational week (consultation	Examination					
7, 13. week	classroom test					
14	Correction of unsuccessful tests					
Review of semester						
Signature from the instructor can get the student, who participate the 75% of consultations and write the classroom tests successfully. Mid-semester mark can get the student, who perform two tests or correct the unsuccessful test. The mid-semester mark is the average of the test marks.						

Required reading:

S. Gnanasudaram, A.Shrivastava, Information Storage and Management, 2nd Edition, John Wiley & Sons, INCISBN: 978-1-118-09483-9, 2012, USA.

Weijia Jia, Wanlei Zhou, Distributed Network Systems, Network theory and applications, Vol.15, Springer, U.S.A, ISBN:0-387-23839-5, 2005, pp.15-30

Recommended literature

D.Barrett, G. Kipper, Visions of the Future: Virtualization and Cloud Computing, Virtualization and Forensics, 2010, pp. 211-220.

L. L. Kong, Applied Mechanics and Materials, Study of Cloud Computing and Virtualization Technology, 2014, pp. 539, 407.

J. Savill, Microsoft Virtualization secrets, John Wiley & Sons, INC., ISBN: 978-118-29316-4, 2012, USA.

Budapest, 2015.01.09.

subject leader