

Óbudai University Donát Bánki Faculty of Mechanical and Safety Engineering		Institute of Mechatronics and Vehicle Engineering		
Course name and Neptun-code: Networks of Informatics BGRIH1ENND				Credits: 4
Full time, 2 nd Semester of the Academic year 2017/18.				
Faculties in which the subject is taught: BSc in Mechatronics				
Supervised by: Hauser István				
Prerequisites conditions: (Neptun Codes)			Informatics I. BGRIA1ENND	
Lessons per week:	Theory: 0	Practice (in Auditorium): 1	Lab: 2	Consultation:
Exam type (s,v,f):	é			
The Syllabus				
Aim: Students learn about the structure and working principles of computer networks. They acquire knowledge about TCP/IP protocol implementing principles, the structure of Internet and the functioning of the user protocols providing basic Internet services.				
Schedule				
Weeks	Topics			
1.	Development, aim and standards of computer networks.			
2.	ISO OSI reference model. Basic networking concepts.			
3.	Internet-principles, comparison of ISO/OSI and TCP/IP reference model. Internet addresses			
4.	Contact free data transmission, Internet Protocol (IP)			
5.	Routing in IP-networks			
6.	Test I.			
7.	Holiday.			
8.	Internet Control Message Protocol– ICMP			
9.	User Datagram Protocol – UDP, Transmission Control Protocol - TCP			
10.	Mnemonic addresses on the Internet, Domain Name System – DNS			
11.	Usage of TCP/IP networks, user protocols.			
12.	World Wide Web basics			
13.	Test II.			
14.	Test retake			
Requirements				
Weeks	Test papers			
6	Test I.			
13	Test II.			
14	Test retake			
<i>The evaluation criterias</i>				
The participation is governed by TVSZ III.23.§ (1)-(4).				
All main areas of the course are evaluated by test papers. The course is to be considered successfully executed and a signature is obtained if and only if both test papers are written.				
The students obtaine disabled entry if they none of the test papers have written, or the absences exceed the number of lessons specified in the TVSZ.				
The student obtain grade 1, if he/she obtained grade 1 for one of the test papers, and he/she could not improved it as a retake test.				
All matters which are not covered in this document, the Study and Examination Rules and the provisions of the Study Regulations, valid at Óbuda University, prevails.				
The semester closing method (method of examination: written, oral, testing, etc.).				
Written exam				
Literature: lecture notes				

Quality Assurance: