

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
<i>Full time, 2nd Semester of the Academic year 2020/21.</i>				
Faculties in which the subject is taught: BSc in Mechatronics				
Supervised by: Nguyen Huu Phuoc Dai				
Prerequisites conditions: (Neptun Codes)			Informatics I. BGRIA1ENND	
Lessons per week:	Theory: 0	Practice (in Auditorium): 1	Lab: 2	Consultation:
Exam type (s,v,f):				
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.	Media Transmission and Network Devices			
3.	ISO/OSI and TCP/IP reference model			
4.	The Internet Protocol (IP) Ipv4 vs Ipv6			
5.	Design a network with packet tracer			
6.	Test I.			
7.	Dynamic Host Configuration Protocol (DHCP)			
8.	Practice with packet tracer			
9	User Datagram Protocol – UDP, Transmission Control Protocol - TCP			
10	Internet Control Message Protocol– ICMP			
11.	Mnemonic addresses on the Internet, Domain Name System – DNS			
12.	The use of TCP/IP networks, user protocols.(world wide web basics)			
13.	World Wide Web basics			
14.	Test II.			
15.	Break			
16.	Test retake			
Requirements				
Weeks	Test papers			
6	Test I.			
14	Test II.			
16	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 obtained disabled entry if they none of the test papers wrote, 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 it improved as a substitutional test paper.				
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: