Óbudai University Donát Bánki Faculty of Mechanical and Safety Engineering	Institute of Mechatronics and Vehicle Engineering

Course name and Neptun-code: IT Networks BMXIHE6BNE			Credits: *4*

Full time, 2nd Semester of the Academic year 2021/2022.

Faculties in which the subject is taught: **BSc in Mechatronics**			

Supervised by: **Dr. Laufer Edit**		Teacher: **Sinan Koçak**	

Prerequisites conditions: (Neptun Codes)		Informatics I, BMXIA1HBNE	

Lessons per week:	Theory: **0**	Practice (in Auditorium): **1**	Lab: **2**	Consultation:

Exam type (s,v,f):	**midterm grade**

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.	Network overview
2.	Media transmission and network device
3.	IPv4 address
4.	OSI and TCP/IP model
5.	Designing a network/ Homework assignment
6.	**Test I**
7.	DHCP
8.	Internet control message Protocol- ICMP
9.	Holiday
10.	TCP and UDP
11.	DNS
12.	World Wide Web
13.	**Test II**
14.	**Test retake**

Requirements

Weeks	Test papers
6	Test I.
13	Test II.
14	Test retake

The evaluation criterias

The participation is governed by TVSZ III.23.§ (1)-(4).

All main areas of the course are evaluated by test papers or online tests. The scale of grades for homework assignment, test 1, test 2 is 30% ,30%, 40% of total marks, respectively.
The course is to be considered successfully executed and a **signature** is obtained if and only if both tests are successful (minimum 40%).

Signature is **denied** if the student cannot justify the absence for the test, has failed to write both tests, or absences exceed the number of classes specified in TVSZ.

Final grade: The average score of the course is rely on the scale of grades metioned above.

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.).
midterm grade

Literature: Moodle
Quality Assurance: