COURSE INFORMATION SHEET

University: Catholic Univer	sity in Ružomberok				
Faculty: Faculty of Education	on				
Course code: KIN/In- BD207A/22	Course title: Computer Networks 1				
Type and range of planned Form of instruction: Lect Recommended study rang hours weekly: 2 / 2 ho Teaching method: on-site	learning activities and teaching methods: ure / Seminar ge: ours per semester: 26 / 26				
Credits: 6	Working load: 150 hours				
Recommended semester/tri	imester: 2.				
Level of study: I.					
Prerequisities:					
Requirements for passing t During the semester, the stu and operating local and larg of a presentation of knowled Final assessment: cumulativ semester and the answers to Subject evaluation: A - 100%-93% B - 92%-85% C - 84%-77% D - 76%-69% E - 68%-60% Fx - 59%-0%	The course: Ident demonstrates his theoretical knowledge in the areas of building ge-scale computer networks based on the TCP/IP protocol in the form ldge and written tests. We percentage gain from the written test (30%) obtained during the the semester exam (70%).				
Learning outcomes of the c The aim of the course is to p operating local and large-sca Learning outcomes (knowle - The student will be able to of building and operating lo define the activity of active services providing users wit network topologies, network - He will have basic skills in - Will be able to solve basic - Will be able to conceptuall Verification of the level of a The verification is carried ou subject and on the semester Course contents: 1. Introduction to computer	rourse: rovide students with theoretical knowledge in the field of building and ale computer networks based on the TCP/IP protocol. dge, skills and competences): o define, explain and establish solutions to the basic rules in the field cal and large-scale computer networks based on the TCP/IP protocol, elements in a local and large-scale network, the activity of network th access to the Internet, the ISO model /OSI, TCP/IP protocol model, c addressing, network protection. n creating an address plan. problems when working with LAN computer networks by design simple LAN networks. cquired knowledge, skills and competences: it on the basis of theoretical checks during the semester teaching of the exam.				

- 2. Network classification, data security, modulation and coding.
- 3. Multiplexing, interconnection methods, transmission modes, management in the network.
- 4. Transmission media, LAN topology, LAN architectures.
- 5. Architectures Eternet, Token, FDDI, Arcnet.
- 6. ISO-OSI model.
- 7. Connecting local networks, network devices.
- 8. Addressing in networks.
- 9. Protocols of higher layers.
- 10. ATM technology.
- 11. Standards in computer networks, network protection.

12. Other types of networks, development directions, applications and IoT devices connected via mobile networks.

Recommended or required literature:

VOLNER, R., PETRUŠKOVÁ, H. 2015. Computer networks. Ružomberok: Verbum, 260 p. HORÁK, J., KERŠLAGER, M. 2013. Computer networks for the novice administrator. Prague: Computer Press.

JIROVSKÝ, V. 2001. Vadamecum network administrator, Grada, Prague.

JENČO, M. Electronic study support for teaching the subject Computer networks 1, moodle.pf.ku.sk

Language of instruction:

Notes:

Course evaluation:

Assessed students in total: 13

А	В	С	D	Е	FX
0.0	23.08	46.15	15.38	15.38	0.0

Name of lecturer(s): doc. Ing. Michal Jenčo, PhD.

Last modification: 25.07.2022

Supervisor(s):

People responsible for the delivery, development and quality of the study programme:

prof. PhDr. Ingrid Emmerová, PhD., PhDr. ThLic. Martin Taraj, PhD., doc. Ing. Igor Černák, PhD.