

1.	Field of study	Computer Science
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2020/2021 (summer term), 2021/2022 (winter term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	part-time

Module: Computer network technologies

Module code: W4-IN-N2-20-2-TSK

1. Number of the ECTS credits: 3

2. Learning outcomes of the module					
code	description	learning outcomes of the programme	level of competence (scale 1-5)		
M_001	haracterizes network devices, such as: network interface card, switch, router, host. Can describe issues connected with switching	K_W02	1		
	frames and routing packets.		3		
		K_W06	1		
M_002	Understands the need to use layered network model OSI-7 for description of phenomena occurring in Computer networks.	K_W03	2		
	Understands divisions within TCP/IP stock of phenomena occurring in the Internet.		2		
		K_W06	2		
M_003	Can join hosts in a local network using various transmission media using point-point topologies and joining into infrastructure.	K_U01	1		
	Tests advanced media and links.		1		
			1		
			1		
M_004	Can configure router as a core layer device. Constructs a network comprising sub-nets of L3 layer. Designs vertical and	K_U01	1		
	horizontal cablings.		1		
		K_U03	1		
		K_U08	2		

3. Module description	
Description	Aim of the module is familiarizing with issues connected with designing, implementation and diagnostics of a local computer network. The module deals with issues connected with process of information transfer in three lowest layers of reference model OSI-7.



4. Assessment of the learning outcomes of the module						
code	type	description	learning outcomes of the module			
W_001	Module credit	Questions from lecture subject matter.	M_001, M_002			
W_002		Checking the level of understanding of issues concerning computer network development and routing.	M_001, M_004			
W_003	Conversation during tasks crediting.	Checks the skill of generalizing knowledge acquired during tasks solving.	M_003, M_004			

5. Forms of teaching								
	form of teaching			required hours of student's own work		assessment of the		
code	type	description (including teaching methods)	number of hours	description	number of hours	learning outcomes of the module		
Z_001	lecture	Content available in the form of multimedia transfer.	10	Preparing for credit.	20	W_001		
Z_002	laboratory classes	Exercises referring to networks joining and LAN networks configuring.	20	Designing own networks with use of CISCO Packet Tracer.	40	W_002, W_003		