

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

Module: Internet protocols

Module code: W4-INA-S2-20-F-PI

1. Number of the ECTS credits: 4

2. Learning outcomes of the module				
code	description	learning outcomes of the programme	level of competence (scale 1-5)	
M_001	The student understands the necessity to implement the particular internet protocols.	K_W03	3	
			1	
		K_W06	3	
M_002	The student characterises TCP/IP protocol stack and understands the need for standardisation of Internet layers and application	K_K04	3	
	operation.		1	
		K_W06	3	
		K_W07	1	
M_003	The student characterises the need to use physical and logical addressing in LAN and WAN networks, understands the need for	K_W03	4	
	migration from IPv4 to IPv6 protocols, is aware of threats resulting from this migration, and can explain the necessity of tunnelling IPv6 to IPv4 in the transition period.	K_W06	3	
M_004	The student configures dynamic routing protocols.	K_U08	2	
		K_U10	1	
M_005	The student presents the group with his configuration solutions.	K_K04	1	

3. Module description	
Description	The module aims at acquainting the students with the use and implementation of network protocols at the L3 and L4 layers of the OSI-7 model.
Prerequisites	



4. Assessment of the learning outcomes of the module						
code type		description	learning outcomes of the module			
W_001	Lecture test	The test comprises the questions from the subjects of the lectures.	M_001, M_002, M_003			
W_002		The tests check the level of understanding of issues concerning designing the computer network and routing protocols.	M_002, M_003			
W_003	Conversation during tasks crediting.	Checks the skill o generalizing knowledge acquired during tasks solution.	M_004, M_005			

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	The content is available as multimedia streaming.	15	The students prepare for the exam individually.	30	W_001, W_002		
Z_002	laboratory classes	During the classes, the blackboard exercises refer to the network addressing and practical exercises refer to routers configuring, reports, and tests.	30	The students design their networks using CISCO Packet Tracer.	45	W_002, W_003		