1.	Field of study	**English Philology**
2.	Academic year of entry	2018/2019 (winter term)
3.	Level of qualifications/degree	first-cycle studies
4.	Degree profile	general academic
5.	Mode of study	full-time

Module: Computer science: Module 3, Computer Networks and network applications

Module code: 02-FA-NI-S1-SKAS-4

1. Number of the ECTS credits: 2

2. Learning outcomes of the module			
code	**description**	**learning outcomes of the programme**	**level of competence (scale 1-5)**
NI-S1-SKAS-4 _K1	Understands the need to keep track of the development of web technologies and appreciates the importance of lifelong learning	FA1_K01	1
NI-S1-SKAS-4 _U1	Is able to set up a simple local network with internet access based on typical hardware and media	FAN1_U08 FAN1_U11 FAN1_U17	1 1 1
NI-S1-SKAS-4 _U2	Has basic network programming skills	FAN1_U08 FAN1_U11 FAN1_U17	1 1 1
NI-S1-SKAS-4 _U3	Is able to assess threats in networks and apply suitable solutions	FAN1_U08 FAN1_U11 FAN1_U17	1 1 1
NI-S1-SKAS-4 _W1	knows referrential models of networks and understands the value of standards in the development of network technologies	FA1_W15	1
NI-S1-SKAS-4 _W2	knows basic protocols, services and web apps	FA1_W15	1
NI-S1-SKAS-4 _W3	knows and understands the concept of communication channels, knows typical methods of data transmission	FA1_W15	1
NI-S1-SKAS-4 _W4	has basic knowledge of threats in typical network environment and knows how to prevent them	FA1_W15	1

3. Module description

Description	Introduction: using networks, network hardware and software, web services and protocols, layer organization of networks, ISO OSI referrential model, web standards. Communication in physical layer: theoretical fundaments, communication media, signals transmission, wired technologies (optical fibers, electrical wires), radio connection, wireless connection, global area network infrastructure. Connection layer: the abstract character of a connection, datagrams (frames), packets, protocols, exception handling, managing access, bridging and switching, chosen technologies
Prerequisites	

4. Assessment of the learning outcomes of the module

code	type	description	learning outcomes of the module
NI-S1-SKAS-4_w_1	zaliczenie	test or written assignment which covers chosen elements of the material covered during lectures	NI-S1-SKAS-4_K1, NI-S1-SKAS-4_U1, NI-S1-SKAS-4_U2, NI-S1-SKAS-4_U3, NI-S1-SKAS-4_W1, NI-S1-SKAS-4_W2, NI-S1-SKAS-4_W3, NI-S1-SKAS-4_W4

5. Forms of teaching

code	form of teaching			required hours of student's own work		assessment of the learning outcomes of the module
	type	description (including teaching methods)	number of hours	description	number of hours	
NI-S1-SKAS-4_fs_1	lecture	lectures with multimedia presentations and demonstration (if needed)	30	Self-study including curricular and extra-curricular reading lists	30	NI-S1-SKAS-4_w_1