Course code								
Type and description	EC elective subjects from the discipline of Information and communication technology							
ECTS credit	1							
Course name	Development trends in computer networks							
Course name in Polish	Kierunki rozwoju sieci komputerowych							
Language of instruction	English							
Course level	8 PRK							
Course coordinator	dr hab. inż. Michał Morawski							
Course instructors	dr hab. inż. Michał Morawski							
Delivery methods and course duration		Lecture	Tutorials	Laboratory	Project	Seminar	Other	Total of teaching hours during semester
	Contact hours	0	0	0	5	0	0	5
	E-learning Assessment	no	no	no	no	no	no	no
	criteria (weightage)	0	0	0	100%	0	0	100%
Course objective	Recognizing of current directions of the development of the network related to technologies to optimize data transfers, provide robustness, and cybersecurity							
Learning outcomes	After finishing the course, the participant:							
, , , , , , , , , , , , , , , , , , ,	1. The ability of an application of the most recent accomplishments concerning network technologies							
	2. The ability of an implementation of the external (AI, game theory, control systems, etc.) achievements in networking and vice-versa							
	3. Conducting tests of networks (algorithms governing a data transfer) both in nominal and in perturbed conditions.							
Assessment methods	Assessment of the project - 100%							
Prerequisites	Fundamental knowledge concerning IP networks, and protocols governing transmission							
Course content with	1. Selection of recent achievements found in IEEE Communication Surveys & Tutorials.							
delivery methods	2. An application of the part of the selected issue.							
	3. Critic	al evaluatio	n of the obta	ined results –	presentatio	n.		
Basic reference materials	RFC repository							
	IEEE Communications Surveys & Tutorials (IF > 20)							
Other reference materials	Journals concerning networks, e.g., IEEE Trans. on Networking, Computer Communication, Computer Networks, etc.							
Average student workload outside classroom	15 h							

Comments	winter semester
Last update	July 2020