

## COURSE DESCRIPTION CARD – SPECIMEN

Faculty of Mechanical Engineering									
Field of study								Degree level and programme type	Bachelor's degree Master's degree
Specialization/ diploma path								Study profile	
Course name	Computer Networks							Course code	IS-MER0056S
								Course type	
Forms and number of hours of tuition	L	C	LC	P	SW	FW	S	Semester	summer
	30			15				No. of ECTS credits	3
Entry requirements									
Course objectives	To familiarize students with the basics of modern operating systems and computer networks. Developing of configuration and management skills concerning network operating systems and computer networks.								
Course content	Operating systems: management and configuration. Disk arrays. Disk volumes. Preparation of internet cable. Determining the network address. Configuration of the WiFi router.								
Teaching methods	Lectures, exercise classes								
Assessment method	Written exam, current assessment of students class work								
Symbol of learning outcome	Learning outcomes							Reference to the learning outcomes for the field of study	
LO1	Student is able to define and describe basic concepts and mechanisms related to network operating systems.							M1_W13	
LO2	Student can define and describe the fundamental concepts and mechanisms related to computer network.							M1_W13	
LO3	Student has acquired skills necessary to work as administrator of server operating systems, is able to configure basic server roles.							M1_U1, M1_U06	
LO4	Student can configure and safely operate a computer network.							M1_U1, M1_U06	

Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed	
LO1	Written test on lecture material, current assessment of students class work.	L, C	
LO2	Written test on lecture material, current assessment of students class work.	L, C	
LO3	Current assessment of students class work.	C	
LO4	Current assessment of students class work.	C	
Student workload (in hours)		No. of hours	
Calculation	Attendance of lectures	15	
	Attendance of classes	15	
	Preparation for exam	10	
	TOTAL:	40	
Quantitative indicators		HOURS	No. of ECTS credits
Student workload – activities that require direct teacher participation		30	3
Student workload – practical activities		15	
Basic references	<ol style="list-style-type: none"> <li>1. Kevin Wilson, Computer Training - Windows 10</li> <li>2. Scott D. Lowe, Derek Schauland, Rick W. Vanover, Training Guide Configuring Windows 8, Microsoft</li> <li>3. Joan Lambert, Joyce Cox, Windows 7 step by step, Microsoft</li> <li>4. Jorge Olenawa, Guide to Wireless Communications</li> <li>5. Andrzej Kwiecien, Piotr Gaj, Piotr Stera, Computer Networks</li> </ol>		
Supplementary references	<ol style="list-style-type: none"> <li>1. Brian Ward, How Linux works, Starch Press Inc.</li> <li>2. William Stallings, Operating Systems: Internals and Design Principles</li> <li>3. James F. Kurose, Keith W. Ross, Computer Networking: A Top-Down Approach</li> <li>4. Peterson Larry L., Computer networks, Elsevier 2012</li> <li>5. Andrew S. Tanenbaum, Modern operating systems, Prentice-Hall, 2001</li> </ol>		
Organisational unit conducting the course	Department of Mechanics and Applied Computer Science	Date of issuing the programme	
Author of the programme	Wojciech Tarasiuk, PhD	26.03.2019	

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work, S – seminar

Please notice!

Depending on number of students enrolled for the subject hours of tuition are as follows (for each 30 hours given in course description card):

1 – 2 students - 5 hours of tuition hours;

3 – 4 students - 8 hours of tuition;

5 – 6 students - 11 hours of tuition;

7 – 8 students - 15 hours of tuition;

9 and more students - hours of tuition given by a teacher as regular classes.