

Course title in English	Utility programs and administration of operating systems
Course title in Polish	Programy użytkowe i administracja systemami operacyjnymi
Course code	
Type of course	Lecture/Seminar
Level of course	PhD
Year of study	1-4
Semester/trimester	2/4/6/8
Number of hours/credits allocated	45/3
Name of lecturer	Rafał Ślusarz
Objective of the course (expected learning outcomes and competences to be acquired)	<p><u>Knowledge:</u></p> <p>The student defines the scope of interference in the resources of ICT system users, distinguishes access levels to system tools, calls system components, characterizes levels of access to system resources, describes the principles of system administration.</p> <p><u>Skills:</u></p> <p>The student proposes security improvements for operating systems and secures the transmission through selected media, plans to use selected tools to improve the use of multi-tasking systems and assesses the possibility of automating regular administrative tasks.</p> <p><u>Social competence:</u></p> <p>The student is careful in sending content on the Web in an unsecured way, he draws attention to the security used by service providers, takes care of securing their own access to the network, works independently when solving an administrative problem, demonstrates responsibility for the actions of users in administered systems.</p>

Prerequisites	<p>Finished Information Technology, Informatics or similar course.</p> <p>It is necessary to have the basic skills of operating Windows and Linux operating systems, basic knowledge of English, the ability to install software in the operating system and the ability to use simple software utilities.</p>
Course contents	<p>Lecture:</p> <p>Description of IT and personal resources and administration rules, principles operating systems operation, administration and maintenance issues, network security elements.</p> <p>Seminar:</p> <p>Compression and encryption of data, expanding the functionality of network software.</p>
Recommended reading	none required
Teaching methods	<p>lecture:</p> <ul style="list-style-type: none"> • the presentation • problem-solving and issues for self-explanation • discussion on the forum <p>seminar:</p> <ul style="list-style-type: none"> • searching for own solutions to problems • solving administrative and programming problems with standard methods • individual work with instructions
Assessment methods	<p>Lecture:</p> <p>partial grades are issued on the basis of quizzes organized in the UG Educational Portal: one- and multiple-choice tests, closed-ended questions, short-answer questions, true or false questions, "matching answers" and accounting tasks based on the learned theory. Final assessment is based on the arithmetic mean of partial grades. For students whose average partial grades do not give the 50% points required to pass, an additional and correction quiz is expected.</p>

	<p>Seminar:</p> <p>partial grades are issued on the basis of solved practical problem tasks, projects, presentations and essays on the problems posted. Final assessment is the arithmetic mean of partial marks.</p>
Language of instruction	Polish