

1.	Field of study	Computer Science
2.	Academic year of entry	2016/2017 (summer term)
3.	Level of qualifications/degree	second-cycle studies
4.	Degree profile	general academic
5.	Mode of study	full-time

Module: Information Systems Administration

Module code: 08-IN-BIO-S2-ASI

1. Number of the ECTS credits: 3

2. Learning outcomes of the module			
code	description	learning outcomes of the programme	level of competence (scale 1-5)
ASI -U_4	Can define components of IT system and characterize their importance and develop such a system according to assumptions accepted.	K_2_A_I_U01 K_2_A_I_U03	1 1
ASI -U_5	Can install, activate and use typical server solutions used in IT systems.	K_2_A_I_U12 K_2_A_I_U20	1 2
ASI -U_6	Can install and activate applications influencing IT system security (firewall, antivirus etc.)	K_2_A_I_U19	1
ASI -W_1	Understands the problem of security in IT systems, knows methods of protecting specific IT system elements.	K_2_A_I_W20	2
ASI -W_2	Knows capabilities of typical solutions (applications) improving the IT systems administration (resource management, communication with user).	K_2_A_I_W14	1
ASI -W_3	Understands mechanisms of IT system elements concurrence, together with client?server architecture use.	K_2_A_I_W13	2

3. Module description	
Description	Aim of the classes is making the students familiar with issues connected with complex process of IT administration. Issues discussed will be: works of an administrator at the network, server and users application levels. The crucial role of security in IT systems and methods of its ensuring will be presented. Example tools and applications improving the administrator work will be characterized.
Prerequisites	

4. Assessment of the learning outcomes of the module			
code	type	description	learning outcomes of the module
ASI_w_1	Control tests	Written tests in the form of a test and open questions.	ASI -U_4, ASI -U_5, ASI -U_6
ASI_w_2	Presentation	Multimedia presentation covering issues discussed during lectures and laboratory classes.	ASI -U_4, ASI -U_5, ASI -U_6, ASI -W_1, ASI -W_2, ASI -W_3

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	
ASI_fs_1	lecture	Presenting educational content in verbal form, with use of content visualization. Focusing on conceptually complex material and indicating sources. Illustrating the content by examples.	15	Familiarizing with lecture content using existing methods packages: textbooks, scripts, websites, etc.	10	ASI_w_2
ASI_fs_2	laboratory classes	Detailed preparation of the students to solve tasks, indication of proceedings methodology, sequence of proceedings. Tasks with use of the chosen applications and technologies.	30	Solving tasks of subsequent topics together with analysis of the already existing solutions. Revision of material discussed during lectures and exercised during laboratory classes.	35	ASI_w_1, ASI_w_2