

1.	Field of study	Computer Science
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2019/2020 (summer term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time

Module: Automation in the process of software development

Module code: 08-IN-IJO-S2-AwPTO

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)
AwPTO -K_7	Student is able to refer his work referring to software testing, assess his own mistakes and present the ways to correct them.	K_K01 K_K04	1 1
AwPTO -U_4	Student can assess automated tests resistance to changes and as a result, their maintenance.	K_U10 K_U12	1 1
AwPTO -U_5	Student can use tools to distributed testing and understands how they work.	K_U01 K_U05 K_U09	1 1 1
AwPTO -U_6	Student can use regular expressions.	K_U12 K_U13	1 1
AwPTO -W_1	Student has grounded knowledge in the field of well designed and implemented unit test.	K_W01	1
AwPTO -W_2	Student has knowledge referring to patterns Given-When-Then and Arrange-Act-Assert in unit tests implementation.	K_W06	1
AwPTO -W_3	Student has grounded knowledge about test class in unit tests and about use of its elements.	K_W10	1

3. Module description	
Description	Aim of the classes in this module is familiarizing the students with the issue of unit testing and explaining problems arising during testing. During the class, there will be presented issues facilitating constructing own unit tests and examples of so called, Behavior Driven Development and the issue of specification by examples.

Prerequisites	
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4. Assessment of the learning outcomes of the module

code	type	description	learning outcomes of the module
AwPTO_w_1	Test	Solving tasks of content and test solving which refers to theoretical questions.	AwPTO -K_7, AwPTO -U_4, AwPTO -W_1, AwPTO -W_2, AwPTO -W_3
AwPTO_w_2	Practical project	Grade on the basis of project and tested unit tests.	AwPTO -U_4, AwPTO -U_5, AwPTO -U_6, AwPTO -W_1, AwPTO -W_2, AwPTO -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	
AwPTO_fs_1	lecture	Presenting educational content in verbal form, using content visualization. Presenting theoretical and practical issues connected with the subject.	15	Familiarizing with subject matter presented during the lecture and preparation to laboratory class connected with the lecture.	15	AwPTO_w_1
AwPTO_fs_2	laboratory classes	Detailed fine-tuning of elements connected with testing and automation during testing process. Analysis of the unit tests and their preparation.	30	Detailed analysis of the unit tests, elaborating and testing the chosen tests.	30	AwPTO_w_2