

Module/Course Syllabus
Program: COMPUTER SCIENCE
 Full-time master degree program

Course:	Science project - implementation
Type of the course:	elective
Course code:	I2S3.10
Year:	II
Semester:	3
Form of the degree program:	full-time
Form of classes and number of hours per semester:	30
Lecture	0
Classes	0
Laboratory	0
Project	30
Number of ECTS credits:	2
Form of assessment:	course completion assessment
Course language:	English

Course objective (CO)	
CO1	Practical mastery by students of the methodology of conducting a research experiment.
CO2	Developing the ability to critically evaluate the results of a research experiment.

Prerequisites in terms of knowledge, skills and other competencies	
1	Ability to schedule work. Knowledge of experimental data processing methods. Ability to think logically and creatively.
2	Ability to schedule work. Knowledge of experimental data processing methods. Ability to think logically and creatively.
3	Ability to schedule work. Knowledge of experimental data processing methods. Ability to think logically and creatively.

Learning outcomes (LO)	
	In terms of knowledge:

	In terms of skills:
LO 1	Has the practical ability to carry out a research experiment and obtain its results. Has the practical ability to process the results of the experiment, evaluate them and present the results.
LO 2	Has the practical ability to carry out a research experiment and obtain its results. Has the practical ability to process the results of the experiment, evaluate them and present the results.
	In terms of social competence:
LO 3	He is ready to critically evaluate his knowledge and use it in solving research problems.

Course content	
Form of classes - project (P)	
	Course content

P1	Discussion about the implementation of the experiment. Operational planning - developing a schedule of activities. Agreeing the schedule with the teacher.
P2	Carrying out research, collecting results.
P3	Processing the results of the experiment.
P4	Developing a report and presentation with research results.
P5	Presentation of the results of the work.

Didactic methods	
1	Scientific and research work.
2	Preparation of a multimedia presentation.

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Passing threshold
A1	Project.	51%

Required textbooks and other course materials	
1	Mańczak K., Technika Planowania Eksperymentu, WNT, Warszawa, 1976
2	ZiębaA., Analiza danych w naukach ścisłych i technice, PWN, ebook, Warszawa 2013
Recommended textbooks and other course materials	
1	Pytkowski W. Organizacja badań i ocena prac naukowych, wyd. 2, PWN, Warszawa 1985

Student workload	
Form of activity	Average number of hours to complete the activity
Contact hours with the lecturer, including:	30
<i>participation in lectures</i>	
<i>participation in projects</i>	30
Student's own work, including:	20
<i>implementation of the project</i>	15
<i>preparation of the presentation of the results of the work</i>	5
Total student workload	50
Total number of ECTS credits	2

Learning outcomes matrix					
Learning outcome	Reference to learning outcomes defined for the master's program	Course objectives	Course content	Didactic methods	Assessment methods
LO 1	I2A_U04 +++ I2A_U07 +++ I2A_U11 ++	CO1	P1, P2	1	A1
LO 2	I2A_U02 ++ I2A_U03 +++ I2A_U04 ++ I2A_U07 ++ I2A_U18 ++	CO2	P3, P4, P5	1, 2	A1
LO 3	I2A_K01 ++ I2A_K02 +++	CO1, CO2	P1-P5	1, 2	A1

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