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

Course:	Preparation and Publication of Scientific Papers
Type of the course:	directional
Course code:	I2S1.02
Year:	I
Semester:	1
Form of the degree program:	full-time
Form of classes and number of hours per semester:	30
Lecture	15
Classes	-
Laboratory	15
Project	-
Number of ECTS credits:	2
Form of assessment:	course completion assessment
Course language:	English

Course objective (CO)	
CO1	The student is to be familiar with publishing standards and editorial requirements.
CO2	The student is to be familiar with the methods and techniques of searching for scientific information and using professional literature and Internet sources.
CO3	The student is to be familiar with the subject of writing a scientific publication or any other scientific work and presenting research results.

Prerequisites in terms of knowledge, skills and other competencies	
1	Basic computer skills and Internet use.
2	English language skills.
3	Basic skills of programming.

Learning outcomes (LO)	
	In terms of knowledge:
LO1	He knows and understands the principles of conducting scientific research.
LO2	He knows the sources and methods of searching for scientific information.
LO3	He knows the stages of publication preparation and publishing standards.
	In terms of skills:
LO4	He can put forward a research hypothesis, analyze the collected material and verify the hypothesis using the available tools.
LO5	He is able to use scientific databases and search for scientific information in terms of research interests and needs.
LO6	He knows how to present the results of research and prepare the publication in compliance with the required standards.
	In terms of social competence:
LO7	He understands the need for continuous training and knowledge discovering as well as for inspiring others to learn.

Course content	
Form of classes – lectures (L)	
	Course content
L1	Stages of research work.
L2	Research methods and tools.
L3	Structure of scientific publications, IMRaD structure.
L4	Types and content of publications.
L5	Literature evaluation and analysis.
L6	Scientific information sources.
L7	Bibliographic databases and references, bibliography elaboration.
L8	Publishing rules and standards, editorial requirements.
L9	Bibliometrics indicators.
L10	Techniques of searching for information in scientific databases.
L11	Rules of using digital libraries. Copyright.
L12	Ethics in scientific research. Plagiarism in scientific writing.
Form of classes – laboratories (Lab)	
	Course content
Lab1	Professional tools for scientific writing.
Lab2	LaTeX class for creating documents. LaTeX editors.
Lab3	LaTeX class for creating presentations.
Lab4	Word processor documents.
Lab5	Reference managers.
Lab6	Conference management systems. ORCID Profile.
Lab7	Submission process.
Lab8	Research problems and hypotheses, types of research.
Lab9	Literature selection. Types of scientific papers.
Lab10	Scientific information. Bibliographic databases analysis.
Lab11	Presentation of research results, preparation of reports and publications.
Lab12	Data processing and analysis software.
Lab13	Plagiarism in scientific writing.

Didactic methods	
1	Lecture with discussion and multimedia presentation.
2	Laboratory work.
3	Discussion during laboratories.

Assessment methods and criteria		
Assessment method symbol	**Assessment method description**	**Passing threshold**
A1	Written test	51%
A2	Research results presentation	51%

Required textbooks and other course materials	
1	Chalmers A. F., What Is This Thing Called Science? Open University Press, 2013.
2	Lagendijk A., Survival Guide for Scientists: Writing-Presentation. Amsterdam University Press, 2008

3	https://www.overleaf.com/learn
4	https://www.springer.com/gp/authors-editors/book-authors-editors/your-publication-journey/manuscript-preparation
5	https://www.elsevier.com/journals/learning-and-instruction/0959-4752/guide-for-authors
Recommended textbooks and other course materials	
1	Library and database web pages.
2	https://biblioteka.pollub.pl/

Student workload	
Form of activity	**Average number of hours to complete the activity**
Contact hours with the lecturer, including:	30
participation in lectures	15
participation in laboratories	15
Student's own work, including:	20
preparation for classes	6
preparing a presentation	7
preparation for passing	7
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**
LO1	I2A_W01 ++ I2A_W09 +++	CO1	L1	1, 2	A1
LO2	I2A_W09 +++ I2A_W11 +++	CO2	L3, L4, L6	1, 2	A1
LO3	I2A_W12 +++ I2A_W15 + I2A_W17 +	CO3	L2, L7	1, 2	A1
LO4	I2A_U03 +++ I2A_U04 + I2A_U06 +	CO1	Lab1, Lab5	1, 2	A2
LO5	I2A_U01 +++ I2A_U06 +	CO1	Lab2, Lab3	1, 2	A2
LO6	I2A_U03 ++ I2A_U06 +	CO2	Lab4	1, 2	A2
LO7	I1A_K01 + I2A_K02 ++ I2A_K04 +	CO1, CO2, CO3	L1, L3, L5-L7, Lab1-Lab6	1, 2	A1, A2

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