UNIWERSYTET IM. ADAMA MICKIEWICZA W POZNANIU

Master's laboratory 1

Educational subject description sheet

Basic information

Study programme Research in Cognitive Science **Speciality** - **Organizational unit** Faculty of Psychology and Cognitive Science **Study level** Second-cycle programme **Study form** Full-time **Education profile** General academic	**Didactic cycle** 2024/25 **Subject code** 23RCSS.21O.15951.24 **Lecture languages** English **Course type** Obligatory **Block** general subjects

Subject coordinator	Marcin Jukiewicz
Lecturer	Marcin Jukiewicz

Period	**Activities and hours**	**Number of ECTS points**
Semester 1	• Laboratories: 30, Graded credit	2

Goals

Code	Goal
C1	The master's laboratory aims to develop students' research skills through practical experience in conducting research, promoting ethical research conduct, and preparing for further academic or professional careers.

Subject learning outcomes

Code	Outcomes in terms of	Learning outcomes	Examination methods
Knowledge – Student:			
W1	knows how to conduct research and select scientific sources.	RCS_K2_W02, RCS_K2_W03, RCS_K2_W04, RCS_K2_W05, RCS_K2_W06, RCS_K2_W07, RCS_K2_W08, RCS_K2_W09	Report
W2	knows the basic principles of preparing scientific texts	RCS_K2_W02, RCS_K2_W08, RCS_K2_W11, RCS_K2_W14, RCS_K2_W15	Report
Skills – Student:			
U1	can Independently define the area of their research interests.	RCS_K2_U01, RCS_K2_U02, RCS_K2_U04, RCS_K2_U06, RCS_K2_U15, RCS_K2_U17	Report
U2	can effectively conduct research and select scientific sources.	RCS_K2_U01, RCS_K2_U02, RCS_K2_U03, RCS_K2_U05, RCS_K2_U06, RCS_K2_U07, RCS_K2_U09, RCS_K2_U11, RCS_K2_U14, RCS_K2_U15, RCS_K2_U16, RCS_K2_U17	Report
U3	can prepare basic scientific texts.	RCS_K2_U07, RCS_K2_U09, RCS_K2_U14, RCS_K2_U15, RCS_K2_U16, RCS_K2_U17	Report
U4	can analyze and synthesize scientific literature related to their own research interests.	RCS_K2_U01, RCS_K2_U02, RCS_K2_U04, RCS_K2_U06, RCS_K2_U14, RCS_K2_U15, RCS_K2_U16, RCS_K2_U17	Report
Social competences – Student:			
K1	is ready to independently conduct further research in the chosen area.	RCS_K2_K01, RCS_K2_K02, RCS_K2_K03, RCS_K2_K04, RCS_K2_K05	Report

Code	Outcomes in terms of	Learning outcomes	Examination methods
K2	is ready to begin working on their own research project.	RCS_K2_K03, RCS_K2_K04, RCS_K2_K05, RCS_K2_K07, RCS_K2_K09, RCS_K2_K10	Report

Study content

No.	Course content	Subject learning outcomes	Activities
1.	Expansion of research skills.	W1, W2, U1, U2, U3, U4, K1, K2	Laboratories
2.	Introduction to research ethics.	W2, U3, K1, K2	Laboratories

Additional information

Activities	Teaching and learning methods and activities
Laboratories	Laboratory method

Activities	Credit conditions
Laboratories	To receive the following grades for the master's laboratory: • Very good (bdb; 5,0): The student consistently demonstrates outstanding performance, excelling in all laboratory assignments and showing exceptional understanding, skill, and competence. • Good plus (+db; 4,5): The student consistently performs at a high level, demonstrating a thorough understanding of the laboratory tasks and producing work of above-average quality. • Good (db; 4,0): The student performs well overall, understands the laboratory concepts well, and completes satisfactory and proficient assignments. • Satisfactory plus (+dst; 3,5): The student performs adequately in most laboratory tasks, demonstrating a basic understanding of the concepts and completing assignments with acceptable quality and proficiency, with occasional areas of improvement. • Satisfactory (dst; 3,0): The student meets the minimum requirements for laboratory assignments, demonstrating a basic understanding of the concepts and completing tasks satisfactorily, but with notable areas needing improvement. • Unsatisfactory (ndst; 2,0): The student fails to meet the minimum requirements for laboratory assignments, demonstrating a lack of understanding of the concepts and producing work of unsatisfactory quality and proficiency, requiring significant improvement.

Literature

Obligatory

1. Alley, M. (2003). The craft of scientific presentations (Vol. 41). New York, NY: Springer.
2. Davis, M., Davis, K. J., & Dunagan, M. (2012). Scientific papers and presentations. Academic press.
3. James Hartley, Academic Writing and Publishing. A Practical Handbook, Routlege, 2008.

Calculation of ECTS points

Activities	Activity hours*
Laboratories	30
Preparation for classes	30
Student workload	**Hours** 60
Number of ECTS points	**ECTS** 2

* academic hour = 45 minutes

Efekty uczenia się dla kierunku

Kod	Treść
RCS_K2_K01	The graduate is ready to undertake an in-depth critical analysis of one's ideas, positions, and opinions and is prepared to change them in the light of data and arguments, knows the limitations of one's knowledge
RCS_K2_K02	The graduate is ready to demonstrate an active approach in problem-solving based on the analysis and evaluation of available data, their own research experience, and, when necessary, expert opinions
RCS_K2_K03	The graduate is ready to demonstrate sensitivity to issues of intellectual honesty in one's own and other people's actions; ensuring the reliability of conducted research (taking into account the role of the team leader)
RCS_K2_K04	The graduate is ready to conduct ethical conduct in its educational, research and publishing activities
RCS_K2_K05	The graduate is ready to collaborate with representatives from various disciplines, aimed at fostering a shared professional environment
RCS_K2_K07	The graduate is ready to systematically work on any long-term projects; planning and coordinating the order of task execution and determining their priorities (both in your own work and in the context of team management)
RCS_K2_K09	The graduate is ready to actively and independently deepen and synthesize knowledge in selected fields of science
RCS_K2_K10	The graduate is ready to promote the principles of caring for mental and physical health and recognizing potential threats to health, especially the brain
RCS_K2_U01	The graduate can fluently search for information from literature, databases and other sources, including the Internet, being aware of the mechanisms operating therein
RCS_K2_U02	The graduate can integrate information from various sources, interpret them creatively and critically, as well as draw conclusions and formulate and fully justify opinions (including author's opinions)
RCS_K2_U03	The graduate can independently design, prepare and conduct empirical research, as well as perform statistical analysis and interpretation of results; select (or create) an appropriate research method for a given problem and an appropriate statistical method for a given problem and type of analyzed data
RCS_K2_U04	The graduate can recognize and critically evaluate the course of research reasoning conducted in the paradigms of the basic sciences of cognitive science and its subdisciplines
RCS_K2_U05	The graduate can present their own ideas, hypotheses and concepts, as well as doubts and suggestions, referring to constructs and theoretical models, as well as relying on research results (including their own)
RCS_K2_U06	The graduate can recognize logical flaws and errors in oral and written statements and determines the impact of these flaws on the persuasiveness of arguments and their role in reasoning processes
RCS_K2_U07	The graduate can independently prepare monographic studies based on literature
RCS_K2_U09	The graduate can select and operate software for text composition, graphics processing, statistical analysis, designing and conducting empirical research, as well as modeling cognitive processes, depending on the needs, and can also create simple (original) IT tools for these purposes
RCS_K2_U11	The graduate can fluently and independently apply statistical, mathematical and logical techniques to describe and model phenomena related to human information processing and related data analysis
RCS_K2_U14	The graduate can create detailed documentation of the results of carrying out a research task; prepare a study containing a discussion of these results
RCS_K2_U15	The graduate can communicate his own and other people's research reports, created in the context of the scientific research process or professional practice, precisely and coherently formulating oral and written statements
RCS_K2_U16	The graduate can select appropriate linguistic means to meet the needs of communication in professional situations and during research, especially in communication with research participants, as well as in the context of popularizing the results of cognitive science research

Kod	Treść
RCS_K2_U17	The graduate can use English at least at level B2+ of the Common European Framework of Reference for Languages, including a range of professional vocabulary in the field of cognitive science
RCS_K2_W02	The graduate knows and understands fluently professional cognitive science terminology in English (to the extent that allows participation in classes conducted entirely in English)
RCS_K2_W03	The graduate knows and understands various approaches to the study of the mind (e.g. computational, neuroscientific, philosophical, evolutionary), as well as the limitations and advantages of individual approaches
RCS_K2_W04	The graduate knows and understands relevant theories or research results (including his own), based on which he formulates in-depth opinions on complex cognitive science issues
RCS_K2_W05	The graduate knows and understands in an in-depth way the cognitive processes that cognitive science studies and explains: perception, consciousness, representations, emotions, memory, speech, communication, social cognition
RCS_K2_W06	The graduate knows and understands in-depth the types of disorders of processes, structures and cognitive mechanisms and the factors determining the development of these disorders
RCS_K2_W07	The graduate knows and understands in a structured and in-depth manner, advanced issues in the field of disciplines basic to cognitive science and subdisciplines of cognitive science (including their characteristic research methods)
RCS_K2_W08	The graduate knows and understands in a well-established practical way the principles of designing and conducting scientific research, with particular emphasis on formulating research problems, formulating hypotheses, as well as research methods, techniques and tools (including the principles of their design and testing)
RCS_K2_W09	The graduate knows and understands the applications of cognitive science in addressing civilizational challenges such as new technologies, health, education, marketing and management, economics, spatial design, rehabilitation, social relations, human-computer communication, and also proposes new forms and fields of cognitive science applications
RCS_K2_W11	The graduate knows and understands well-established (practical) principles of preparing and publishing a scientific text
RCS_K2_W14	The graduate knows and understands health and safety rules characteristic for individual laboratories
RCS_K2_W15	The graduate knows and understands in-depth standards and rules regarding intellectual property and copyright