**Course Syllabus**

1. **General Information**

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| Course name | *Research methodology in psychology. Analysis and interpretation of empirical data in psychology* |
| Programme | Psychology |
| Level of studies (BA, BSc, MA, MSc, long-cycle MA) | MA |
| Form of studies (full-time, part-time) | Full-time |
| Discipline | Psychology |
| Language of instruction | English |

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| Course coordinator/person responsible | Piotr Mamcarz |

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| Type of class *(use only the types mentioned below)* | Number of teaching hours | Semester | ECTS Points |
| lecture |  |  | 3+3 |
| tutorial |  |  |
| classes |  |  |
| laboratory classes |  |  |
| workshops | 60 | V/VI |
| seminar |  |  |
| introductory seminar |  |  |
| foreign language classes |  |  |
| practical placement |  |  |
| field work |  |  |
| diploma laboratory |  |  |
| translation classes |  |  |
| study visit |  |  |

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| Course pre-requisites | Advanced knowledge in psychology and B2 English language skills |

1. **Course Objectives**

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| Empower students with the knowledge and skills to develop and implement a research project |
| C1 - prepare students to write scientific publications |
| C2 - Prepare students to formulate research problem, research hypotheses and selection or design of methods with psychometric properties |
| C3 - Prepare students to analyze and interpret empirical data |

1. **Course learning outcomes with reference to programme learning outcomes**

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| --- | --- | --- |
| Symbol | Description of course learning outcome | Reference to programme learning outcome |
| KNOWLEDGE | | |
| K\_W04 | understands the specificity, nature and aims of scientific cognition, knows the principles of methodology of psychology;  has knowledge of designing and conducting empirical research in psychology; | P7U\_W1 |
| SKILLS | | |
| K\_U02 | has developed research skills: formulates research problems, selects appropriate diagnostic methods and techniques, constructs research tools; uses a statistical software package, develops, presents and interprets research results, makes conclusions, indicates directions for further research within the selected psychology sub-discipline; | P7U\_U1 |
| K\_U09 | Is able to independently acquire knowledge and develop their professional skills using various sources of information (in the native and foreign language), using modern technologies (ICT) and respecting the principles of intellectual property; | P7U\_U2 |
| SOCIAL COMPETENCIES | | |
| K\_K08 | the application of ethical principles and intellectual integrity to the scientific activities and professional practice of the psychologist; | P7U\_K1 |
| K\_K01 | take a critical attitude towards the research methods used and the results obtained through them, and towards different views and practices in psychology; | P7U\_K2 |

1. **Course Content**

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| **Class 1.** Stages of preparing a research project  **Class 2.** Bibliography management  **Class 3.** Desk research and use of digital sources  **Class 4**. Title formulation based on variables  **Class 5.** Strategy and planning  **Class 6.** Formulation of the research problem and hypotheses  **Class 7.** Study group selection  **Class 8.** Quantitative methods  **Class 9.** Qualitative methods  **Class 10.** Testing procedures  **Class 11.** Preparation of the theoretical part  **Class 12**. Critical analysis of source articles  **Class 13.** Text formatting standards (APA)  **Class 14.** Design thinking  **Class 15.** Research project presentation  **Class 16.** Constructing empirical research models  **Class 17.** Development of research tools  **Class 18.** Methods of conducting empirical research  **Class 19**. Statistical analysis of the results obtained part I  **Class 20.** Preparation of descriptive statistics  **Class 21.** Interpretation of test results  **Class 22.** Paired difference test and correlation  **Class 23.** Regression  **Class 24.** Mediation and moderation  **Class 25.** Statistical analysis of the results obtained part II  **Class 26.** Writing a section on limitations and future research perspectives  **Class 27**. Writing the results discussion section  **Class 28.** Writing abstracts  **Class 29.** Research project presentation  **Class 30.** Summary |

1. **Didactic methods used and forms of assessment of learning outcomes**

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| Symbol | Didactic methods  *(choose from the list)*  *Lecture and case analysis* | Forms of assessment  *(choose from the list)*  *Exam (oral or written)*  *or written assignment*  *Exam 70%*  *Written assignment 30%* | Documentation type  *(choose from the list)*  *Exam credits protocol and the class test results* |
| KNOWLEDGE | | | |
| K\_W04 | Case analysis | Written assignment 20% | Research questionnaire |
| W\_02 |  |  |  |
| W\_… |  |  |  |
| SKILLS | | | |
| K\_U02 | Learning-by-doing | Written assignment 20% | Scientific article |
| K\_U09 | Learning-by-doing | Written assignment 20% | Scientific article |
| U\_…. |  |  |  |
| SOCIAL COMPETENCIES | | | |
| K\_K08 | Presentation | Oral exam 20% | Presentation file |
| K\_K01 | Presentation | Oral exam 20% | Presentation file |
| K\_... |  |  |  |

1. **Grading criteria, weighting factors.....**

Evaluation criteria:

Very good grade 91% - 100%

Good 71% - 90%

Satisfactory 51% - 70%

Unsatisfactory 50% or less

1. **Student workload**

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| Form of activity | Number of hours |
| Number of contact hours (with the teacher) | **60** |
| Number of hours of individual student work | **120** |

1. **Literature**

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| Basic literature |
| Gastel, B., & Day, R. A. (2017). *How to write and publish a scientific paper*. Greenwood.  APA (2019). *Publication Manual (Official) 7th Edition of the American Psychological Association.* APA.  Goodwin, K. A., & Goodwin, C. J. (2017). *Research in psychology: methods and design* (8th ed.). John Wiley & Sons.  Howitt, D., & Cramer, D. (2020). Understanding Statistics in Psychology with SPSS (8th ed.). Pearson. |
| Additional literature |

Mayers, A. (2013). Introduction to Statistics and SPSS in Psychology (1st ed.). Pearson.