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| Course  | Research Techniques and Data Analysis  |
| Level and study program                         | Master's degree in Psychology (LM-51)  |
| Scientific disciplinary sector (SSD)            | M-PSI/03   |
| Academic year                                   | 2024-2025  |
| Total number of credits                         | 6  |
| Propedeuticità                                  | ---  |
| Professor                                       | Maria Stefania De Simone<br>Nickname: Maria Stefania De Simone<br>Email: mariastefania.desimone@unicusano.it<br>Office hours: please refer to the videoconference schedule.<br>Tutor: Luigi La Fortezza  |
| Presentation of the course and study objectives | The course is focused on the presentation and discussion of the main research methods and data analysis techniques in psychology, with the aim of promoting specialized knowledge in the student. The course aims to provide students with the theoretical, methodological, and instrumental knowledge necessary for the correct design of research in psychology, particularly with regard to an appropriate choice and application of quantitative data analysis methods and techniques. Knowing the methodologies of scientific investigation procedures, being able to formulate and carry out scientific research, and being able to critically analyze the results from the specialized literature are necessary skills to acquire in order to choose and apply a research method. |
| Prerequisites                                   | Basic knowledge of psychometrics   |
| Bibliography and resources                      | Welkowitz, J., Cohen, B. H., & Lea, R. B. (2012). Introductory statistics for the behavioral sciences. John Wiley & Sons.<br>ISBN: 978-0-470-90776-4<br>Chapters:<br>1. Introduction to Statistics;<br>5. Introduction to Statistical Inference;<br>7. Testing Hypotheses About the Difference Between the Means of Two Populations;<br>9. Linear Correlation;<br>10. Prediction and Linear Regression;<br>12. One-Way Analysis of Variance.   |
| Assessment Methods                              | It is mandatory for students to register for the oral exam.  |



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Brief description of the oral exam: the oral exam consists of an interview aimed at assessing the student's level of preparation. The interview typically involves 3 questions (theoretical and/or applied in nature) covering the entire course.

Grading: the assessment is expressed in a scale of 30 points, and the minimum passing grade is 18.