Course title	Development of Language and Numerical Literacy				
Course code	PSY13##				
Course type	Lecture				
Level	Undergraduate				
Year / Semester	Year 3				
Teacher's name	Maria Vrikki				
ECTS	7.5	**Lectures / week**	1	**Laboratories / week**	0
Course purpose and objectives	This course aims to give students a strong foundation in the two critical abilities of language competence and numerical literacy. Through the use of effective language and quantitative reasoning, this course seeks to give students the skills they need to critically analyze and express psychological concepts, theories, and research findings. The course aims to promote students' overall academic achievement in psychology and prepare them for future research, analysis, and professional communication by improving their language and math skills.				
Learning outcomes	The following learning outcomes are expected, where students will: 1. Demonstrate improved reading comprehension skills for psychology-related texts and research articles. 2. Use the appropriate terminology and concepts, in both written and verbal communication. 3. Create well-structured written materials, such as essays, research reports, and summaries, while following the rules of academic writing. 4. Use evidence-based language to have deliberate and informed conversations about psychological issues. 5. Use critical thinking to assess the strength and veracity of psychological justifications offered in various media. 6. Interpret and examine basic descriptive statistics in psychological research, and understand and explain basic inferential statistics ideas, through the use of statistical tools. 7. Analyze quantitative data-based research projects' procedures and findings critically and use quantitative reasoning to come to conclusions, solve problems, and make well-informed decisions based on numerical data. 8. To effectively communicate research findings in written reports and presentations, combine your language and math skills. 9. Use the relevant graphs, charts, and tables to visually represent quantitative data.				

	10. Be able to communicate and explain to both expert and lay audiences statistical studies in straightforward, understandable language. 11. Determine and contrast the advantages and disadvantages of qualitative and quantitative research techniques in psychology. 12. Show awareness of ethical standards for appropriate citation, referencing, and avoiding plagiarism by the end of the course. 13. Ensure proper depiction of data while presenting research findings, use ethical concerns. 14. Determine any biases or restrictions that may have been introduced into linguistic and numerical representation research investigations. 15. Analyze psychological research in the media critically for veracity and ethical reporting. 16. Use language and numeracy literacy skills to analyze psychological reports objectively in a variety of settings. 17. Engage with practical applications of psychology science to reach evidence-based conclusions. 18. Recognize how misrepresenting research findings affects public perception and its broader societal ramifications.		
Prerequisites	No	**Required**	None
Course content	This course aims to give students a strong foundation in the two critical abilities of language competence and numerical literacy. Through the use of effective language and quantitative reasoning, this course seeks to give students the skills they need to critically analyze and express psychological concepts, theories, and research findings. The course aims to promote students' overall academic achievement in psychology and prepare them for future research, analysis, and professional communication by improving their language and math skills Week 1: Introduction to Language Literacy in Psychology Week 2: Writing Skills for Psychology Week 3: Effective Communication in Psychology Week 4: Introduction to Numerical Literacy in Psychology Week 5: Descriptive Statistics and Data Visualization Week 6: Inferential Statistics and Hypothesis Testing Week 7: Using Statistical Software for Data Analysis Week 8: Integrating Language and Numerical Skills in Research Week 9: Ethical Considerations in Research Communication Week 10: Applying Language and Numerical Literacy in Real-world Scenarios Week 11: Integrative Projects and Case Studies		

Teaching methodology	Lecture
Bibliography	Field, A. (2018). Discovering Statistics Using IBM SPSS Statistics. Sage Publications. American Psychological Association. (2020). Publication Manual of the American Psychological Association (7th ed.). American Psychological Association. Barkley, E. F. & ajor, C. H. (2020). Student Engagement Techniques: A Handbook for College Faculty (2nd ed.). John Wiley & Sons. The latest peer-reviewed journal articles, reviews, and reputable online resources will be distributed by the lecturer throughout the course.
Assessment	1. Midterm & Final Exam (30% & 30%): Mid-term and final exams will be conducted covering the entire course. Both exams will include multiple-choice, short-answer, and essay questions. 2. Individual assignments (30%): (i) Assignment that requires students to analyze provided datasets using statistical software and interpret the results (5%). (ii) Individual presentation where students explain and interpret the results of assignment (i), by emphasizing on clear communication and appropriate use of visual aids (5%). (iii) Peer review of research presentations, focusing on language clarity, proper use of terminology, and effective communication of statistical results (10%). (iv) Critical analysis of psychological research articles with a focus on language use and statistical interpretation (5%). (v) Assignments where students apply language and numerical skills to solve real-world scenarios or ethical dilemmas related to psychology (5%). 3. Presence & Participation (10%): Students should be present and actively participate in in-class discussions.
Language	Greek