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**Reseach methods and experience**

**15 Themes of Lectures**

1. Research methods in psychology: Historical overview.
2. Organizing the psychological research: variables, hypothesis and methods.
3. Basic requirements for research subjects.
4. Organizing the psychological research: variables, hypothesis and methods.
5. Types and structure of experiment in psychology.
6. Standardization, reliability and validity of new method.
7. Using measurement scales in psychological research.
8. The design of the experiment in psychology.
9. Pilot research in psychology.
10. Experimental forms of design and ways of their control
11. Data processing of psychological experiment.
12. Data processing by SPSS.
13. Generalization and interpretation of research results.
14. Psychophysiological researches and their structure.
15. Modern computer technologies in psychological research.

 **List of Literature**

1. Pashler, H. (Ed)(2002) *Stevens' Handbook of Experimental Psychology*; New York: Wiley
2. West, S. G., & Thoemmes, F. (2010). Campbell’s and Rubin’s perspectives on causal inference. Psychological Methods, 15(1), 18-37. [doi](http://en.wikipedia.org/wiki/Digital_object_identifier):[10.1037/a0015917](http://dx.doi.org/10.1037/a0015917)
3. Brewer, M. (2000). Research Design and Issues of Validity. In Reis, H. & Judd, C. (eds) Handbook of Research Methods in Social and Personality Psychology. Cambridge:Cambridge University Press.
4. McGuigan, F.J. (1997) Experimental Psychology: Methods of Research. New Jersey: Prentice-Hall.
5. Charness, G., Gneezy, U., & Kuhn, M. A. (2012). Experimental methods: Between-subject and within-subject design. Journal Of Economic Behavior & Organization, 81(1), 1-8.
6. Solso, Robert L. & MacLin, M. Kimberly (2001). *Experimental Psychology: A Case Approach* (7th ed.). Boston: Allyn & Bacon. [ISBN](http://en.wikipedia.org/wiki/International_Standard_Book_Number%22%20%5Co%20%22International%20Standard%20Book%20Number) [0-205-41028-6](http://en.wikipedia.org/wiki/Special%3ABookSources/0-205-41028-6).
7. Sturm, T. & Ash, M.G (2005). Roles of instruments in psychological research. History of Psychology,8, 3-34.
8. Kline, R. B. (2004). Effect Size Estimation in Multifactor Designs. In , Beyond significance testing: Reforming data analysis methods in behavioral research (pp. 203-243). Washington, DC US: American Psychological Association. doi:10.1037/10693-007

**Exam Questions**

1. Reveal basic scientific schools of psychology and their studies.
2. Describe experimental study as one of the main methods of psychology.
3. Give examples of experiments that influenced on psychology as a science.
4. Analyze main problems of creating new psychological method.
5. Make a comparison of research scales in psychology.
6. Explain differences between dependent and independent variables.
7. Produce an observation on dependent variable and give examples.
8. Conduct an observation on independent variable and give examples.
9. Describe attributes of good validity of a test as a research method.
10. Explain significance of pilot research in psychology.
11. Describe conditions of conducting the pilot research.
12. Explain differences between quantitative and qualitative data processing.
13. Show possibilities of new psychological method creation and adaptation.
14. Analyze advantages and disadvantages of interview as a research method.
15. Explain the concepts of standardization, reliability and validity of new method.
16. Reveal possibilities of using of the SPSS in psychology.
17. Distinguish peculiarities of parametric and non-parametric statistics in SPSS.
18. Describe what correlation is, identify correlation types and give examples.
19. Explain possibilities of applying modern computer technologies in psychological research.
20. Explain what control group is in experimental research and give examples.
21. Describe process and main problems of creating hypothesis.