**Advanced Quantitative Research Methods**

**Objectives**

1. Foster students’ understanding of the researcher’s work (model)
2. Introduce students to procedures for collecting and storing of data in educational research
3. Introduce students to procedures for analysis of multivariate and multilevel data
4. Promote students’ competence and confidence in using computer-based procedures for the data analysis
5. Develop students’ ability to understand and master the handling of data and employ proper analyses
6. Develop students’ understanding of output derived from statistical procedures and to converting such output to understandable statements in English

**Course Content**

* Philosophical debates in quantitative research
* Elements of Quantitative Research
* Measurement
* Sampling
* Experimental Designs
* Survey Research
* Constructing the Survey Instrument
* Analysis of available data and multiple methods
* Evaluation Research
* Research Ethics
* Data Processing and Elementary Data Analysis
* Multivariate Data Analysis
* Report Writing

**Recommended Books**

1. Babbie, E. (2012). *The Practice of Social Research, 13th ed.* Belmont, CA: Wadsworth.
2. Baronov, D. (2021). *Conceptual foundations of social research methods*. Routledge.
3. Booth, W. C., Booth, W. C., Colomb, G. G., Colomb, G. G., Williams, J. M., & Williams, J. M. (2003). *The craft of research*. University of Chicago press.
4. Heiman, G. (2011). Basic statistics for the behavioural sciences. Belmont, CA: Wadsworth, Cengage Learning.
5. Kuhn, T. S. (2012). *The structure of scientific revolutions*. University of Chicago press.
6. Mertler, C. A., & Reinhart, R. V. (2016). *Advanced and multivariate statistical methods: Practical application and interpretation*. Taylor & Francis.
7. Morgan, G., Leech, N., Gloeckner, G., & Barrett, K. (2011). IBM SPSS for introductory statistics: Use and interpretation. New York: Routledge
8. Patten, M. L., & Newhart, M. (2017). *Understanding research methods: An overview of the essentials*. Routledge.
9. Rea, L. M., & Parker, R. A. (2014). *Designing and conducting survey research: A comprehensive guide*. John Wiley & Sons.
10. Salkind, N. J., & Frey, B. B. (2019). *Statistics for people who (think they) hate statistics*. Sage Publications, Incorporated.
11. Sarıışık, M., & Çulha, O. (2020). Basic operations with SPSS. In *An SPSS Guide for Tourism, Hospitality and Events Researchers* (pp. 35-60). Routledge.
12. Singleton, Royce A., Jr., and Bruce C. Straits. 2009. *Approaches to Social Research*, 5th ed. New York: Oxford Univ. Press. ISBN 0-19-537298-0 (4th ed. Or above)