

Methodology of Scientific Research Course

<i>Name of the subject:</i> Methodology of Scientific Research - PhD	<i>SUBJECT code:</i> <i>DIM1MSR</i>	<i>Weekly hours:</i> 6 lectures + 4 indoor practice	<i>Credits:</i> 15
<i>Subject leader:</i> Milovan Vuković	<i>Academic Degree:</i> <i>Full Professor</i>	Prerequisites: Master degree	

Purpose: At the end of this course, students will be able to: (1) acquire a comprehensive understanding of the principles in conducting an academic research, (2) conduct preliminary research activities and (3) write and present a good research proposal based on their research interests.

Course description: This course relates to the general principles of Research Methodology that are applicable to any discipline. It covers the fundamental process in conducting an academic research. The theoretical and practical aspects of preparing a research proposal presented are also discussed. Amongst topics that will be covered are introduction to research and its philosophy, review of research methods, problem formulation and research objective, literature review, research methodology and design, data collection procedures, data analysis, research proposal and thesis preparation and research management.

Schedule

Weeks	Topics
1.	Introduction to Methodology of scientific research.
2.	Research methods (I): Experiment, Statistics, Models, Axiomatic method.
3.	Research methods (II): Logic of scientific reasoning.
4.	Research methods (III): Data collection procedure (quantitative, qualitative or mixed).
5.	Research methods (III): Data collection procedure (quantitative, qualitative or mixed).
6.	Process of scientific research.
7.	Problem formulation and objectives. Concepts, operationalization, indicators. Validity and reliability of research.
8.	Research proposal preparation.
9.	Data analysis (I).
10.	Data analysis (II).
11.	Choice of methods in terms of research
12.	Seminary project presentation.
13.	Seminary project presentation.
14.	Seminary project presentation.

Final grade: 30 points (seminar project) and 70 points (exam);
<51pts ,fail; 51-60, grade 6; 61-70, grade 7; 71-80, grade 8; 81-90, grade 9; 91-100, grade 10

Compulsory literature:

P. Ghauri, K. Gronhaug, *Research Methods in Business Studies*, Prentice Hall, England, 2005.

M. Vuković, Ž- Živković, *Metodologija naučno-istraživačkog rada*, Grafožig, Beograd, 2005.

Supplemental literature:

A. H. Kvanli, R. J. Pavur, K. B. Keeling, *Concise Managerial Statistics*, Thomson Learning, USA, 2007.