Study program: Business Economics and Finance

Course name: Methodology of Scientific Research

Teacher(s): Mirjana Radović Marković

Course status: Mandatory

Number of ECTS credits: 8

Course requirement: Enrollment

Aim of the course

Acquisition of knowledge and skills necessary for carrying out theoretical and empirical research as well as for independent writing of professional and academic papers.

Course outcome

After passing the exam, the student will be able to:

Adopt and reproduce (with the occasional help of teachers) basic general and factual knowledge of methodology, methods, principles and rules of scientific research;

Reproduce knowledge of facts, principles, processes and general concepts, describe and define the basic categories of research methodology;

Understand, explain and connect factual and theoretical knowledge in the wider context of methodology and relations between society and scientific research;

Adopt new concepts and by using explanations, interpretations and comparisons - present and logically connect comprehensive, specialized factual and theoretical knowledge of the methodology of scientific research;

Demonstrate advanced knowledge, critical awareness, thinking and understanding of theories and principles, as well as the ability to think innovatively with capability of prediction.

Course content

Theoretical classes:

1)Methodology and method. Types of scientific methods and methodical procedures. 2) Science, scientific principles, scientific semantics, forms of scientific thinking, cognitive goals and theoretical-methodological approaches. 3) Research preparation: designing scientific research. 4) Structure of the research project. 5) Drafting scientific idea, formulation of problems, objects and research goals. 6) Hypotheses, indicators, constants and variables. 7) Research of social phenomena, selection of colleagues/research assistants, pre-research, field work. 8) Method of object research, arranging and displaying data, data control, key property/characteristic, scaling, encryption. 9) Data analysis, hypothesis verification, inference, report preparation and usage of research results. 10) How to write a scientific paper? Preparing and defining a writing strategy. 11) Use of library and computer. Database. 12) Writing a resume. Reviews of other authors. Essays. Quantitative and qualitative research and writing. 13) Selection of titles, ways of quoting, paraphrasing, comments, bibliography. 14) Footnotes and citation of the cited literature in the text. 15) What should be avoided in writing? Revision of text.

Practice hours:

Designing scientific research, simulating the practice of methods, problem situations, field work, testing and determining the psychological and socio-cultural structure of the respondents.

Reading materials/Literature

(a) Required:

Marković Radović, M. (2022). *Kvalitativne metode i dizajn istraživačkih projekata,* Faculty of Economics and Engineering Management, Novi Sad.

Nikolic, Zoran, (2010), *Metodologija naučno-istraživačkog rada*, Faculty of Economics and Engineering Management, Novi Sad.

Panke, D. (2018). *Research design and method selection making good choices in the social sciences*, Sage Publications.

b) Recommended: Saunders, M., Lewis, P., & Thornhill, A. (2016). *Research methods for business students* (7th ed.), Essex, England: Person Limited Education.

Christensen, L., Johnson, R. B., & Turner, L. (2015). *Research methods, design, and analysis* (12th ed.). Essex, England: Pearson Education Limited.

Number of teaching hours	**Theoretical classes: 3x15 = 45**	**Practice hours:2x15 = 30**

Teaching methods

The method is determined by the thematic content and the needs for practicing interactive teaching. “Ex cathedra” teaching method. Combined methods: hermeneutics, heuristics, explanations, illustrative, popular lectures, demonstrative teaching, problem method, “blitz Licht”, brainstorming, feedback, mind mapping, network.

Evaluation of knowledge (maximum number of points: 100)

Pre-exam obligations	**Points**	Final exam	*Points*
Active participation in class	**10**	Written exam	
Practice hours	**15**	Oral exam	**70**
Seminar paper	**5**		