

Study program: Physical Education and Sport				
Type and level of studies: Basic academic studies				
Course title: INTRODUCTION TO RESEARCH METHODS AND STATISTICS				
Lecturer or lecturers (for lectures): Mirkov M. Dragan; Nedeljковиć Č Aleksandar				
Lecturer / Associate (for practice):				
Course status: Obligatory				
ECTS: 3				
Condition: None				
Course objectives: To introduce basic concepts of: empirical reasoning; deriving a verifiable research idea; selecting data collection methods; determining reliability and validity; using descriptive statistics; standard normal distribution, relationships between variables; experimental control, experimental designs.				
Course outcome: After successfully completing this course, students are expected to: <ul style="list-style-type: none"> • Be able to objectively analyze research papers and create independent thinking; • Have basic knowledge on different types of research questions and research designs; • Have basic knowledge on quantitative and qualitative research methods, as well as relevant ethical considerations. 				
Contents description: <i>Theoretical instruction</i> The Research Process; The Nature and Purpose of Research; The Research Problem; Searching the Literature; Developing the Research Plan; Ethical Concerns in Research; Selection of Research Participants; Sampling Procedures; Reading and Evaluating Research Reports; Types of Research; Data Collection and Analysis (Descriptive and Inferential Data Analysis); The Research Report <i>Practical classes:</i> Search Engines; Electronic databases (Search strategies; PubMed; KoBSON; Google Scholar); Reading research Papers; Data collection (Sampling strategies); Measures of Central tendency; Measures of dispersion; Relative measures (Z-values, Quartiles; Deciles; Percentiles); Correlations and regressions; Testing for differences (independent and dependent samples)				
References: Dragan Mirkov, Primena informacionih tehnologija u fizičkom vaspitanju i sportu, prvo izdanje (IT Technologies in Sport and Physical Education, 1 st Ed.), Belgrade, FSFV, 2013; Turban, E., et al., Introduction to Information Technology, 3rd Edition, Wiley, 2005.				
No. of active classes				Other classes:
Lectures: 2	Exercises/ Practical classes: 1	Other forms of teaching:	Study research work:	
Teaching method Theoretical lectures; practical lectures				
Knowledge assessment (maximum score 100)				
Exam prerequisites	points	Final examination	points	
Class Activities	5	Written examination	28	
Practical instruction	5	Practical examination		
Preliminary exam / Colloquium	48	Oral examination	20	
Seminar papers			

