

Faculty of Philosophy / PEDAGOGY / Pedagogical Scientific and Research Methods

Course:	Pedagogical Scientific and Research Methods			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
7607	Mandatory	6	5	2+2+0
Programs	PEDAGOGY			
Prerequisites	There are no pre-conditions for the attendance of this course.			
Aims	Introducing the students to the role, elements (parts) and procedures of creating a scientific research project; characteristics, selection and application of scientific research methods, techniques and procedures, as well as design of research instruments; To sensitize students to the needs and possibilities of applying the scientific approach in work.			
Learning outcomes	After passing the exam, the student will be able to: - Select chooses and rationally use the available pedagogical resources for the development of quantitative and qualitative research projects; - Uses different methods and techniques; - Constructs research instruments; - Make a draft for an educational project; - Plans, organizes and implements various types of pedagogical research; - Define a valid scientific research conclusions and makes adequate scientific generalizations.			
Lecturer / Teaching assistant	prof. Nikola Mijanović, PhD, Sanja Čalović Nenezić, MA			
Methodology	Lectures and discussions; individual work of students on the scientific research project and the design of research instruments; consultations, regular assessment in efficient preparation for the final exam.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	The basic pedagogical scientific research stages.			
I week exercises	Introduction to the subject, requirements and obligations. The basic pedagogical scientific research stages: group discussion.			
II week lectures	The concept and the purpose of the scientific research project.			
II week exercises	Exercise: Bibliographical preparation of the research project / Methodological practicum.			
III week lectures	Structural elements of a scientific research project; drafts of historical, descriptive, comparative, experimental research.			
III week exercises	Group work: Elaboration of the key elements of the scientific research project. Individual work: Methodological starting points in research / Methodological practicum.			
IV week lectures	Classification of scientific research methods; methodological specificity of the historical method and the method of theoretical analysis; possibilities of applying the descriptive method.			
IV week exercises	Formulation of topics for a scientific research project. Discussion on the advantages and disadvantages of certain scientific research methods. Group work: Selection of scientific-research methods according to selected topics of the scientific-research project.			
V week lectures	The experimental method and its modalities.			
V week exercises	Procedure for performing certain types of experiments (group work).			
VI week lectures	Characteristics of systemic-structural-functional research.			
VI week exercises	Preparation for the mid-term exam 1.			
VII week lectures	Mid-term exam 1.			
VII week exercises	Repair Mid-term exam 1.			
VIII week lectures	The key concepts of qualitative research (paradigms, position of the researcher...)			
VIII week exercises	Group work: analysis of the key concepts of qualitative research.			
IX week lectures	The types of qualitative research.			
IX week exercises	Group work: Analysis of certain types of qualitative research.			
X week lectures	Data collection procedures in qualitative and quantitative research: content analysis, participant observation, interviewing, survey...)			
X week exercises	Advantages and disadvantages of certain scientific research techniques - the group level discussion. Selection of research techniques according to the selected topic for the scientific research project.			
XI week lectures	Scientific research instruments and their metric characteristics.			

XI week exercises	The choice of research instruments according to the selected topic for the scientific research project. Analyzing drafts of certain scientific research instruments.					
XII week lectures	Organization of data, their processing and interpretation; analyzing research material: thematic analysis, discourse analysis, narrative pedagogical approach.					
XII week exercises	The choice of appropriate procedures for arranging data according to the chosen topics of the scientific research project.					
XIII week lectures	The structure and design of the scientific research report - elaboration.					
XIII week exercises	Exercise: Research report / Methodology practicum.					
XIV week lectures	The key characteristics of researchers.					
XIV week exercises	Preparation for the mid-term exam 2.					
XV week lectures	The mid-term exam 2.					
XV week exercises	The remedial mid-term exam 2.					
Student workload						
Per week			Per semester			
5 credits x 40/30=6 hours and 40 minuts 2 sat(a) theoretical classes 0 sat(a) practical classes 2 excercises 2 hour(s) i 40 minuts of independent work, including consultations			Classes and final exam: 6 hour(s) i 40 minuts x 16 =106 hour(s) i 40 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 6 hour(s) i 40 minuts x 2 =13 hour(s) i 20 minuts Total workload for the subject: 5 x 30=150 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 30 hour(s) i 0 minuts Workload structure: 106 hour(s) i 40 minuts (courses), 13 hour(s) i 20 minuts (preparation), 30 hour(s) i 0 minuts (additional work)			
Student obligations			Students are obliged to attend the lectures, take part in discussions and take two tests and individually outline a research project on a given topic.			
Consultations			Tuesday, at 13 p.m.			
Literature			<ul style="list-style-type: none">• Bandur V. i Potkonjak N. (1999): Metodologija pedagogije, „Učiteljski fakultet“, Beograd;• Halmi A. (2003): Strategija kvalitativnih istraživanja u primijenjenim društvenim znanostima, „Naklada Slap“, Zagreb;• Cohen, L., Manion L. i Morrison, K. (2007): Metode istraživanja u obrazovanju, „Naklada Slap“, Zagreb;• Mejovšek M. (2003): Uvod u metode znanstvenog istraživanja, „Naklada Slap“, Zagreb;• Mužić V. (1986): Metodologija pedagoških istraživanja, „Zavod za izdavanje udžbenika“, Sarajevo;• Potkonjak N. (1982): Metodološki problemi sistemnih proučavanja u pedagogiji, „Prosveta“, Beograd;• Mandić, P. (2004): Metodologija naučnog rada, „Akademija nauka i umjetnosti Republike Srpske“, Banja Luka;• Milas, G. (2005): Istraživačke metode u psihologiji i drugim društvenim znanostima, “Naklada Slap”, Jastrebarsko, (odabrana poglavlja)• Petz, B. (2007): Osnovne statističke metode za nematematičare, „Naklada Slap“, Zagreb.			
Examination methods			Forms of assessment: Tests 20 points each (40 points total), regular class attendance and activity - 3 points; work on the research project and active participation in its defense - 6 points; final exam 50 points. The passing grade is awarded for the cumulative number at least 51 poents. Passing grade can be4 given if a students collects at least 51 poents.			
Special remarks						
Comment			Students will be given the realization plan of the program of instruction at the beginning of the semester.			
Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points