

Program	Level		First cycle				
	Name of the program		Pure mathematics, Mathematics Education				
COURSE							
Course title	Methodology of Educational Research						
Course code	Semester	Course status	ECTS	Contact hours (L+AE+LE)			
EDU 601	I	Mandatory course	4	2+0+0			
Lecturer							
Course Goals	Students will become familiar with the most commonly used quantitative research methods in education. In addition, the content of the course will enable students to plan and conduct research independently.						
COURSE CONTENT							
<ul style="list-style-type: none"> - Research methodology in education - Variables, measurement, measurement scales - Metric characteristics (reliability, validity, discrimination) - Steps in the research process - Quantitative research methods (Experimental research. Causal-comparative research - Correlational research. Survey research. - Internal and external validity in research - Research design - Statistical methods (Descriptive methods. Distributions and probability. Hypothesis testing. T-test. ANOVA. Correlations and regression) 							
LITERATURE							
<p>[1] Goran Milas (2005) Istraživačke metode u psihologiji I drugim društvenim znanostima. Naklada Slap, Jastrebarsko.</p> <p>[2] Jack R Fraenkel, Norman E. Wallen (2008). How to Design and Evaluate Research in Education, 7th edition. McGraw Hill Higher Education.</p> <p>[3] Anthony M. Graziano, Raulin, Michael L (2009). Research Methods: A Process of Inquiry, 7th edition. Allyn & Bacon.</p> <p>[4] John Creswell (2007). Planning, Conducting, and Evaluating Quantitative and Qualitative Research: International Edition, 3rd edition. Prentice Hall.</p> <p>[5] Sawyer, R.K. (Ed.). (2006). The Cambridge Handbook of the Learning Sciences. Cambridge University Press.</p> <p>[6] Slavin, R.E. (2006) Educational Psychology: Theory and Practice (Edition 8), Allyn & Bacon, Boston.</p>							
STUDENT WORKLOAD (hours in semester)							
Lectures	30	Tutorial	0	Individual work	70	T o t a l	100
GRADING				REMARKS			
Criterion	Maximum points	Minimum points					
Midterm exams	10	5					
Homework assignment	-	-					
Project	2x10	10					
Laboratory assignments	2x10	10					
Final exam	50	30					
T o t a l	100	55					