Type and level of studies: PhD										
Title of the study program: Economics, Business Management, Statistics										
Subject title: Methodology of Scientific Research 2-D										
Subject code: DMNI										
Number of ECTS: 9										
Subject status (Compulsory / Elective): Elective										
Teacher/s (Name, last name): Branislav Boričić, Siniša Zarić, Mirjana Ilić										
Numb	Number of active teaching lessons: Other lessons									
Lectu	res:	Practice	Other forms of	Study research work:						
classes: teachir			teaching:							
Prere	Prerequisite: Methodology of Scientific Research 1D									
Subject objective: To enable students to acquire skills in the methods of general logic, methodology and										
research, as required for their use in economics-, business- and statistics-based subjects. To prepare										
students for further units in research and argumentation.										
Subject outcome (gained knowledge): This course develops advanced logical and methodological										
methods and will emphasize their applications to problems in economics, statistics, management and										
related areas, and also demonstrates further applications in economics.										
subject content/structure: GENERAL METHODOLOGY AND LOGIC. Scientific theory; Axiomatic										
method; induction and inductive definition; The nature of proof; Deduction relation; Independence of										
axioms; Consistent and inconsistent theories; Truth and proof; Completeness; Aristotle two-valued										
principle; Paradoxes and logical errors; Indirect argumentation; Example and counterexample – proof and										
refutation; Decision making; Weighted voting system, vetoing and dictatorship. METHODOLOGY OF										
ECONOMICS. The hypothetico-deductive model; Statistical inference; Norms versus actual practice;										
From Popper's falsificationism to the new heterodoxy; Empiricism-Ultraempiricism-Apriorism-										
Operationalism; Positive and normative economics; The rationality postulates; The logic of preference;										
Independence of rational choice axioms; Arrow-Sen social choice theory; Possibility and impossibility										
phenomena; Existence of utility function; Existence of general equilibrium.										
Teach	ing metho	ds: practice	classes, other forms of te	aching, study research work						
	_		Grading (maximum nu	mber of points 100)						
Pre-ex	xamination	obligations	Points	Final exam	Points					
Activi	ties during	lectures		Written exam						
Practice lessons				Oral exam						
Colloc	quium/a									
Semes	ster papers									
Literature:										
No.	Author		Title	Publisher	Year					
	I. Lakatos		Proofs and	The British Journal for the	1963					
			Refutations	Philosophy of Science XIV, p	р.					
				1-25, 120-139, 221-245, 296-						
				342.						
	P. C. Fisł	nburn	The Theory of	Princeton University Press	1973					
			Social Choice							
	A. D. Ta	ylor	Mathematics	Springer, Berlin	1995					
			and Politics -							
			Strategy,							
			Voting, Powe	r						
			and Proof							

M. Blaug	The	Cambridge University Press,	1992
	Methodology of	Cambridge	
	Economics: Or,		
	How Economists		
	Explain		
B. Boričić	Logic and Proof	Ekonomski fakultet, Beograd	2011
M. Cohen, E. Nagel	An Introduction	George Routledge and Sons,	1934
	to Logic and	London	
	Scientific		
	Method		
S. Dow	Economic	Oxford University Press Inc,	2003
	Methodology -	New York	
	An Inquiry		
M. Friedman	The	Univ. of Chicago	1966
	Methodology of		
	Positive		
	Economics, in		
	Essays In		
	Positive		
	Economics		