

Study program: Bachelor academic studies ECOLOGICAL ECONOMICS (BASEEC)				
Type and level of studies: Bachelor academic studies, I level				
Subject name: Theory od Decision			Subject code	6E4TEO
Professor: dr. Gordić V. Aleksandar, assistant profesor				
Subject status: Elective				
Number of ECTS: 6				
Condition: none				
Subject goal Familiarizing students with key concepts and logical and philosophical foundations of decision theory and game theory, and their applications in a variety of situations to make decisions concerning the environment.				
Subject outcome Acquiring necessary expert knowledge of the techniques of rational decision-making, as well as logical (normative) and psychological (empirical) aspects of decision-making in a variety of social and business environments.				
Subject content <i>Theoretical classes</i> The concept and the decision making process. Theory of preferences. Rational subject and effective decision making. Models of decision making. Strategy choices under conditions of uncertainty and under risk. The concept of the utility of information - supplemental information and its costs. Elemental and sequential / strategic decisions. Mono- and multiattributive decision making. Group decision making and its elements. Game theory. Decision-making in the institutional environment. Application of decision theory and game theory in the field of environmental protection. Expert systems. <i>Practical classes</i> Defining the problem, current and objective of decision-making. Recognizing the essential elements of the examples / case studies. Logical-mathematical basis for rational decision-making. The insight into circumstances that affect the adoption of final decisions. Working through objective, subjective and collective moments in the context of the decision. Considering relevant alternatives. Possibilities of quantification and establishing of appropriate criteria - quantifiable and non quantifiable features. Expert system.				
Literature 1. Pavličić, Dubravka (2004). <i>Teorija odlučiva</i> , Beograd: Ekonomski fakultet, više izdanja. 2. Čupić, Milutin, i Milija Suknović (2010). <i>Odlučivanje</i> Beograd: Fakultet organizacionih nauka. 3. Stojanović, Božo (2005). <i>Teorija igra: elementi i primena</i> , Beograd: Službeni glasnik i Institut za evropske studije. 4. Kron, Aleksandar (2004). <i>Savremena filozofija logike i matematike</i> , Beograd: Institut za filozofiju Filozofskog fakulteta u Beograd. 5. Ristić, Živan (1995). <i>O istraživanju, metodu i znanju</i> , Beograd: Institut za pedagoška istraživanja, više izdanja.				
Number of active teaching classes				Other classes
Lectures: 3(45)	Practices: 1(15)	Other class forms:	Study research paper:	
Teaching methods Lectures, audiovisual exercises, colloquium, defense of written papers, consultations, oral wxam.				
Knowledge evaluation (maximum number of points is 100)				
Pre-exam obligations	points	Final exam		points
Activity during lectures	10	Written exam		
Practical classes and papers	20	Oral exam		50
Colloquium	20			