

Study program: Bachelor academic studies: ECOLOGICAL ECONOMICS (BASEEC)				
Type and level of studies: Bachelor academic studies, I level				
Subject name: Philosophy of Natural Sciences			Subject code	6E2FPN
Professor: dr Luka Todorović, associate professor				
Subject status: Elective				
Number of ECTS: 5				
Condition: none				
Subject goal The aim of the course is to provide a basic introduction to the main philosophical questions about scientific knowledge and methodological postulates concerning natural sciences. During the realization of the course will be considered different views of the standard philosophy scientific topics which are divided into 4 main groups: Study and identification of specific features that differ from the teachings of the philosophy and other forms of knowledge and determining the specificity of scientific methods; focus on philosophical changes of the paradigm of scientific theory; whether science can answer basic philosophical questions about the structure of reality, Whether philosophical reflection on the history of science can tell us anything about the reliability of scientific methodology; Theoretical and empirical settings of the scientific practice are being considered in the topics such as creativity, the role of values in scientific practice, feminist perspective on scientific practice ...				
Subject outcome Qualifying students for basic understanding of what science is, how it can be distinguished from other ways of knowledge, and how the scientific explanation functions in the practice. Students will be able to explain why scientific theories change over time. They will be able to understand the development of the science from natural philosophy before the 17th century to empirically specialized disciplines of today. The most important starting point of course is a necessity for students to realize that science is not an isolated effort, but it is placed in the wider social and cultural context.				
Subject content <i>Theoretical classes</i> Dual roots of science. Demarcation, naturalism, science and pseudo-science. Induction. Hypothetical-deductive method. Discovering causes and conclusions that provide the best scientific explanation. Unification, reduction and pluralism. Scientific Revolution. The reasons of scientific realism. Constructive empiricism. Scientific understanding. Scientific discovery and creativity. Philosophy of specific natural sciences. The question of moral responsibility of scientists. Science and religion. <i>Practical classes</i> Writing a research paper. Oral presentations of students. Audiovisual practices - watching multimedia forms of the scientific and philosophical content and their interpretation in a group and individually in the form of essays.				
Literature 1.Karl Hempel, <i>Filozofija prirodnih nauka</i> , Plato, Beograd, 1997. 2. Samir Okaša, <i>Filozofija nauke</i> , TKD Šahinpašić, Sarajevo, 2004. 3. Neven Sesardić (prip.), <i>Filozofija nauke</i> , Noli, Beograd, 1985. 4. Ernest Nejjel, <i>Struktura nauke</i> , Nolit, Beograd, 1974.				
Number of active teaching classes				Other classes
Lectures:2(30)	Practices: 2(30)	Other class forms:	Study research paper:	
Teaching methods Lectures, seminar paper, audiovisual practices, written and oral exam.				
Knowledge evaluation (maximum number of points is 100)				
Pre-exam obligations	points	Final exam	points	
Activity during classes	10	Written exam	30	
Practical classes	20	Oral exam	20	
Seminar paper	20			