

(Table 5.2) Course unit description

Study program: Business Economics and Management			
Type and level of studies: Undergraduate studies			
Course unit: Economic Cybernetics			
Teacher in charge: Dejana Zlatanović			
Language of instruction: English			
ECTS: 7			
Prerequisites: Basic knowledge in the field of Management and Organization			
Semester: V			
Course unit objective: The objective of the course is to introduce the students into cybernetic way of thinking. The student will be acquainted with theoretical-methodological and applicative dimensions of cybernetic conceptualization and research of economic phenomena and problems. Focus will be on using cybernetic approaches and tools, as well as their complementary use with other systems approaches to creative dealing with diverse economic problems.			
Learning outcomes of Course unit			
<ul style="list-style-type: none"> • Students will be able to understand the economic problems as cybernetic systems; • Theoretical and methodological knowledge about systemic researching the structure and functioning of the real systems; • Gaining insights into cybernetic conceptualization of complex management problems in enterprises; • Practical knowledge about conditions, ways, strengths and limitations of using the cybernetic approaches to creative dealing with management problems in business economics. 			
Course unit contents			
Economic Cybernetics – economic phenomena, problems, organizations as cybernetic systems			
Management Cybernetics (black box, feedback, input-transformation-output) <i>versus</i> Organizational Cybernetics (variety, organized complexity, systems epistemology)			
Systems Theory as scientific instrumentarium of Cybernetics			
Structure and functioning of cybernetic systems			
Cybernetic conceptualization of economic systems			
Cybernetic approach to complex problem solving in enterprises			
Viable System Model in redesigning the organization			
Literature			
1. Espejo, R., Schuhmann, W., Schwaninger, M. and Bilello, U. (1996). <i>Organizational Transformation and Learning - A Cybernetic Approach to Management</i> . Wiley: Chichester. (Selected Chapters)			
2. Schwaninger, M. (2006). <i>Intelligent Organizations – Powerful Models for Systemic Management</i> . Berlin: Springer. (Selected Chapters)			
3. Pérez-Ríos, J. (2012). <i>Design and Diagnosis for Sustainable Organizations: The Viable System Method</i> . Heidelberg: Springer. (Selected Chapters)			
Number of active teaching hours			Other classes
Lectures	Practice	Other forms of classes	
Teaching methods			
Lectures, case studies, discussions			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures	10	oral examination	40
practical classes/tests	40		
Seminars/homework	10		
Project			

Other

Grading System

Grade	Bo. Of Points:	Description
10	91-100	Excellent
9	81-90	Exceptionally good
8	71-80	Very good
7	61-70	Good
6	51-60	Passing
5	0-50	Failing