

Study program: Engineering Management			
Type and level of studies: Master studies (second level of studies)			
Course unit: Organizational Systems			
Teacher in charge: Zoran Nešić			
Teaching Assistant: Vladan Paunović			
Language of instruction: English			
ECTS: 6			
Prerequisites: Management. Operations Research			
Semester: Winter			
Course unit objective Mastering the relevant knowledge from managing organizational systems, methods, systems theory and systems management, operations research and use of appropriate software support.			
Learning outcomes of Course unit Students gain the necessary knowledge and skills in order to successfully manage and operate in organizational systems. They also acquire competencies to project the organizational structure and project organization. In particular, it is important to prepare and train students to consider the analytical complexity, diversity and multifaceted problems of organizational systems and the application of appropriate methods to solve problems.			
Course unit contents <i>Theoretical classes</i> Organizational systems, mathematical models, flow diagrams, structure, objectives, hierarchies. Measuring the success and impact of new technologies on the structure and dynamics of the organization. The company as a large, complex system, managing ongoing operation, development and management of investment projects. Projecting macro, micro and intra organizational structure. Static and dynamic aspect of the content according to organizational units. Creating conditions for the production, models of production organization, provide material, provide capacity, projecting cybernetic model of organization of the immediate preparation of production and regulation of production. Resource management, value chain management, time management as irreparable resources. Optimization models and their application in solving business problems and production with appropriate software support. <i>Practical classes</i> Practices are auditory and include the development of curriculum program provided with the presentation of examples (cases, projects) practices.			
Literature 1. Radojicic M, Vesic Vasovic J., Nestic Z., Application of optimization methods in the function of improving performance of organizational systems, Monograph, Faculty of Technical Sciences Čačak 2. Gareth R. J., Contemporary Management, McGraw Hill, 2007. 3. Taylor B., Introduction to Management Science, Global Edition 10ed, Pearson Education 2009 4. Sekaran U, Bougie R., Research Methods for Business - A Skill Building Approach, John Wiley & Sons, 2009.			
Number of active teaching hours			Other classes
Lectures: 2	Practice: 2	Other forms of classes: 0	
Teaching methods Teaching involves lectures, arithmetical practices, as well as independent work of students. Lectures are performed in a conventional way of teaching content presentation. Practices include combination of conventional and interactive teaching method with participation of students through the analysis of case studies, preparation of project tasks from the scope of the subject content. Testing knowledge, assessment and the method of examinations. Exam is written and / or oral.			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures	10	oral examination	
Practical classes/tests	35	written examination	40
Seminars/homework	15	
Project			
Other			
Grading system			
Grade	No. 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	less than 50	Failing	