

Study program : Mechanical Engineering, Module Industrial Engineering			
Type and level of studies: BSC			
Course unit: Production systems			
Teacher in charge : Miladin Stefanovic, Aleksandar Aleksic			
Language of instruction (<i>English or other foreign language</i>): English			
ECTS:6			
Prerequisites: no			
Semester: <i>Summer semester</i>			
Course unit objective: Presentation of concept and detail of production systems, identification and management of production processes using general concepts of management of technologies and production, supply management, CAPP, costs management, just-in-time, TQM and CIM concept.			
Learning outcomes of Course unit Understanding and knowledge of general skills, knowledge and competences connected to structures, management and directions of development of production and other parts of production system.			
Course unit contents <i>Theoretical classes</i> In the theoretical part of the course following fields will be covered: introduction to theory of the systems and management of the systems, information systems, basis of production systems, management of technologies and products, CAPP systems, supply management, planning and production control, quality management, organization resilience, maintenance management, cost management, directions of development of production systems. <i>Practical classes</i> Analysis of production system. Application of theoretical knowledge on real life problems.			
Literature [1] James A. Rehg "Introduction to Robotics in CIM Systems" (5th Edition) ", Prentice Hall, 5 edition (March 8, 2002), ISBN 0130602434 [2] Groover, M. P. (2007). Automation, production systems, and computer-integrated manufacturing. Prentice Hall Press.			
Number of active teaching hours			Other classes 1
Lectures: 3	Practice: 2	Other forms of classes: 0 Independent work: 0	
Teaching methods Classical, frontal lecturing, combined with individual and group approach using modern education equipment. Evaluation of knowledge: tests and seminars.			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures	10	oral examination	30
practical classes/tests	40	written examination	
Seminars/homework	20	
Project			
Other			
Grading system			
Grade	No. of points	Description	
10	91	Excellent	
9	81	Exceptionally good	
8	71	Very good	
7	61	Good	
6	51	Passing	
5	>51	Failing	