

Study program / course: Mechanical Engineering				
Type and level of study: academic studies (master degree)				
Course: CIM systems				
Lecturers: Stefanović Z. Miladin				
Status of course: Elective for modules M ₁ and M ₆ , III semester				
Number of ECTS: 6				
Precondition: none				
The objective of course Presentation of core of computer and management of production beginning with computer supported design, to the integration of production systems, quality and management system.				
The outcome of course Understanding and basic knowledge and skills in the field of computer integrated production, beginning at design, production and manufacturing systems to systems integration.				
Syllabus				
Theoretical study In the framework of theoretical study following areas will be discussed: introduction to the CIM, CIM systems and models, the basic elements IS, automated systems identification and data collecting, systems for the exchange of data, computer supported designed, planning and production, computer-controlled production technology, quality control, integration systems and methods, Management of CIM technologies.				
Practical classes include: Exercises and work in laboratories. (CIM work with models, as well as with the DNC software and CNC machine, where will learn programming code G). In the framework of study research work, students will be trained for basic research in the field of cases.				
Recommended reading 1. Stefanović M.: CIM systems, Faculty of Mechanical Engineering, Kragujevac, 2006 (in Serbian) 2. K. Asai, (Editor), et al Edition "Manufacturing, Automation Systems and CIM Factories," Springer, ISBN: 0412482304 3. James A. Rehg "Introduction to Robotics in CIM Systems" (5th Edition) ", Prentice Hall, 5 edition (March 8, 2002), ISBN 0130602434				
The number of hours of active teaching:				Other classes: 1
Theory: 3	Practical classes: 1.4	Other forms of teaching: 0.6	Research study: 0	
Methods of teaching Classic “frontal” approach combined with group and individual approach with the use of current resources. Evaluation of knowledge will be performed through colloquiums and seminars papers.				
Evaluation of knowledge (the maximum number of points 100)				
Pre-final exam obligations	points	Final exam	points	
Activities during the classes:	-	Written exam:		
Practical classes:	30	Oral exam:	30	
Colloquiums(s) :	20			
Seminar(s) :	20			