

COURSE GUIDE – short form

Academic year 2014 - 2015

Course name ¹	CAD-CAM-CAE Systems					Course code	RBT.413. DO.DS-2		
Course type ²	DS	Category ³	DO	Year of study	IV	Semester	7	Number of credit points	4

Faculty	Mechanics	Number of teaching and learning hours ⁴						
Field	Mechatronics and Robotics	Total	L	T	LB	P	IS	
Specialization	Robotics	42	28	-	14	-	42	

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	

General objective ⁶	The course aims for students to acquire knowledge concerning advanced systems of production and management of these systems with the aid of computers. Students will also acquire knowledge concerning the structure of the CIM systems, their functions and how to measure the performance of integrated production systems
Specific objectives ⁷	<ul style="list-style-type: none"> Information on manufacturing systems, advanced production systems and flexible automation. Advanced production systems modelling. Presentation of the industrial complex structures and flexible manufacturing systems. Introduction to management and control of advanced manufacturing systems using computer. Presenting the concept CIM components and subsystems.
Course description ⁸	Introduction to manufacturing systems. Modeling of Advanced Industrial production. Complex industrial structures. Flexible manufacturing systems. CIM concept and its component subsystems.

Assessment			Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment	Class tests along the semester			%
	Activity during tutorials/ laboratory works/projects/practical work		Week 1-14	40%
	Assignments, homework			
Final assessment	Final assessment form ¹¹	Exam	Exam period	60%
	Examination procedures and conditions: 1. Exam with three subjects from the curriculum, time 2 h, percent of the final grade 60 %. 2. Applications evaluation, percent of the final grade 40 %.			

Course organizer	prof. dr. ing. Leohchi Dumitru	
Teaching assistants	prof. dr. ing. Leohchi Dumitru	