

COURSE GUIDE – short form

Academic year 2014-2015

Course name ¹	ROBOTS OF SPECIAL APPLICATIONS					Course code	MSR.DO.D S.210-02		
Course type ²	DS	Category ³	DO	Year of study	M2	Semester	4	Number of credit points	7

Faculty	MECHANICS	Number of teaching and learning hours ⁴						
Field	MECHATRONICS AND ROBOTICS	Total	L	T	LB	P	IS	
Specialization	MASTER - ROBOTIZED SYSTEMS	42	28	-	-	14		

Pre-requisites from the curriculum ⁵	Compulsory	Physics, Study of Materials, Machining Technologies
	Recommended	Programming-MATLAB, Electrotechics and Electric Machines, Fundamentals of Robotics

General objective ⁶	General knowing about constructive, functional and designing fundamental principles of special destined robots components and also the ways of their construction.
Specific objectives ⁷	<ul style="list-style-type: none"> - Fundamentals in robotics, Applications in industry and services, - Industrial applications of robots, - Robots in agriculture and zootechnics, - Robots in forestry, - Robots for unaccessible environements, - Robots for space explorations, - Medical robots, - Military robots, - Services robots.
Course description ⁸	Fundamentals in robotics, Applications in industry and services, Industrial applications of robots, Robots in agriculture and zootechnics, Robots in forestry, Robots for unaccessible environements, Robots for space explorations, Medical robots, Military robots, Services robots.

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	50%
	Assignments			-
Final assessment	Final assessment form ¹¹	Exam	Examperiod	50%
	Examination procedures and conditions: 1. Exam with three subjects from the curriculum, time 2h, percent of the final grade 60% 2. Applications evaluation, percent of the final grade 40%			

Course organizer	S.I.dr.ing. Buium Florentin	
Teaching assistants	S.I.dr.ing. Buium Florentin	

¹Course name from the curriculum

²DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

³DI – imposed, DO – optional, DL – facultative (from the curriculum)

⁴ Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide – extended form (L-lecture, T-tutorial, LB-laboratory works, P-project, IS-individual study)

⁵ According to 4.1 – Pre-requisites - from the Course guide – extended form

⁶ According to 7.1 from the Course guide – extended form

⁷ According to 7.2 from the Course guide – extended form

⁸ Short description of the course, according to point 8 from the Course guide – extended form

⁹ For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

¹⁰ A minimum grade might be imposed for some assessment stages

¹¹ Exam or colloquium