

STUDENT INFORMATION BOOKLET

MASTER DEGREE IN ROBOTICS AND AUTOMATION ENGINEERING - 2021-2022

Intelligent autonomous systems course of study

Year	Semester	Classroom	CREDITS
1	I	DYNAMICAL SYSTEMS THEORY	9
		INDUSTRIAL AUTOMATION AND OPTIMAL CONTROL - <i>Module 1: Industrial Automation</i>	6
		VEHICLE DYNAMICS	6
		OPTIMIZATION METHODS FOR CONTROL THEORY	6
		TRAINEESHIP	3
	II	INDUSTRIAL AUTOMATION AND OPTIMAL CONTROL - <i>Module 2: Optimal Control</i>	6
		NETWORKED CONTROL SYSTEMS	6
		FILTERING AND IDENTIFICATION OF DYNAMICAL SYSTEMS	6
		EMBEDDED SYSTEMS PROGRAMMING	9
2	I	AUTONOMOUS MULTI-AGENT CONTROL SYSTEMS	6
		VEHICLES CONTROL - <i>Module 1: Model-based control systems</i>	6
		VEHICLES CONTROL- <i>Module 2: Autonomous driving vehicle models</i>	3
		MACHINE LEARNING	6
		FREE CREDITS	6
	II	MOBILE ROBOTICS - <i>Module 1: Autonomous robotics</i>	6
		MOBILE ROBOTICS - <i>Module 2: Cognitive robotics</i>	3
		FREE CREDITS	6
		FINAL DISSERTATION	21
Total credits			120