## Course Unit Description - (LASET)

(Technology and Embedded Systems Laboratory)

(Mestrado em Engenharia Electrotécnica e de Computadores)



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Subject gr	oup: Autom	ação e Robótica	
	Semestral	Compulsory	
Mode of study	Diurno	Hours/Week PL-Prática-Laboratorial	9
Year	1 <sup>0</sup>	OT-Orientação Tutorial	1
Semester			
	ECTS	9	
Objectives	:		
This course	intends to pr	ovide the problem solving skills and methodologies to addres ole of knowledge from the embedded systems, sensors and	s the development of a embedded sensory system for a specific problem. This perception, and robotics courses.
Course Co	ntents		
		s for Embedded Systems ion of Embedded Systems	
Recommended reading			
Art of Systems Architecting, Eberhardt Rechtin, Mark Maier, CRC Press, 2002 Embedded Microprocessor Systems (Embedded Technology Series): Real World Design Stuart Ball, Elsevier Books, 2002 Sensors for Mobile Robots, H. R. Everett, AK Peters Publishers, 1995 J. Borenstein, H. R. Everett, and L. Feng, "Navigating Mobile Robots: Sensors and Techniques", AK Peters, Ltd., 1996 An Behavior-based Robotics, Ronald C. C. Arkin, MIT Press, 1998 Embedded Robotics, Thomas Braunl, Springer Verlag, 2004 Autonomous Mobile Robots: Vehicles With Cognitive Control, A. Meystel, World Scientific, 1991			
Tarabira Mathada			
Teaching Methods  Project analysis and development.			
Assessme	nt methods		
The final gra	ade is compo	sed by the assessment of the outcomes from the different pi	roject development phases (requirement analysis, project and implementation)
			Name
Teacher re	esponsible:		José Miguel Soares de Almeida (JSA)
Lecturer:			Alfredo Manuel Oliveira Martins (AOM) João Paulo da Costa Baptista (JPB) José Miguel Soares de Almeida (JSA) Luis Miguel Vieira Lima (LUL) Hugo Miguel Gomes da Silva (HMS) Carlos Eduardo Valente Almeida (CEA)

Academic year: 2009/2010

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