Course Unit Description - (DINAV)

(Advanced Dynamics)



(Mestrado em Engenharia Electrotécnica e de Computadores)					
Subject group: Fluidos e Calor					
	Semestral	Optional			
Mode of study	Diurno	Hours/Week	T- Teórica		2
Year	1 ⁰		PL-Prática-Laboratorial		2
Semester	1 ⁰		OT-Orientação Tutorial		1
	ECTS	3			
Objectives					
This course intends to provide the theoretical background of mechanical knowloge for autonomous systems.					
Course Contents					
Distributed forces: centroids, centers of gravity and moments of inertia					
Kinetics Dynamics					
Aerodynamics Fluid mechanics					
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Recommended reading Macépire Vesteriel para Engaphaires, Cinemática a Disémica, Para and Johnston, Mc Crow IIIII					
Mecânica Vectorial para Engenheiros, Cinemática e Dinâmica, Beer and Johnston, Mc Graw Hill. Dinâmica, Mecânica para Engenharia, R.C.Hibbeler. Prentice Hall.					
Fundamentos de Aerodinâmica Incompressível. Vasco de Brederode. Ed. autor. 1997. Mecânica dos fluidos. Frank M. White. Mc Graw Hill.					
Teaching Methods					
The course will be present in 5 topics. Teaching methods will be based in theoretical lessons and practical examples, research and exercises done in the classes.					
Assessment methods					
The final grade is composed by the assessment of following components:					
Practical exercises resolution in classes, and one research work composed by a written report, an oral presentation and defense.					
				Name	
				Name	
Teacher re	esponsible:			Fernando Jose Ferreira (FJF)	

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Lecturer: