



INSTITUTO  
SUPERIOR  
TÉCNICO

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**Núcleo de  
Graduação**

**Maria Cristina de Oliveira Santos Matos David Ezra,  
Coordinator of NÚCLEO DE GRADUAÇÃO of INSTITUTO SUPERIOR TÉCNICO,  
UNIVERSIDADE DE LISBOA**

CERTIFIES that,

**PEDRO MIGUEL OTÃO PEREIRA** -----

with Identity Card Num. 13813110 -----

birth originally from Campo Grande, Lisboa -----

and PORTUGUESE nationality -----

concluded the 2nd Cycle, of the degree in INTEGRATED MASTER  
DEGREE (MSC) in AEROSPACE ENGINEERING, on the 29 November 2013,  
with the final grade of 18 (eighteen) values having received a  
total of 120.0 ECTS, has the right to the degree of Master in  
Aerospace Engineering, having been issued the registry diploma  
number 8227/ISTCM/14 with approval on the following curricular  
units:

- i) AUTOMATIC FLIGHT CONTROL SYSTEM DESIGN -----  
----- 3.0 ECTS, with 19 (nineteen) values
- i) AVIONICS AND OPERATIONS - 3.0 ECTS, with 16 (sixteen) values
- i) CONTROL THEORY ----- 6.0 ECTS, with 18 (eighteen) values
- i) OPTIMIZATION IN SYSTEMS AND CONTROL -----  
----- 4.0 ECTS, with 19 (nineteen) values
- i) SYSTEM THEORY ----- 4.0 ECTS, with 19 (nineteen) values
- i) VALUE ENGINEERING & OPERATIONS OPTIMISATION -----  
----- 6.0 ECTS, with 18 (eighteen) values
- i) ADVANCED FLIGHT CONTROL - 4.0 ECTS, with 18 (eighteen) values
- i) AIRCRAFT PERFORMANCE OPTIMIZATION -----  
----- 3.0 ECTS, with 19 (nineteen) values

Student No. 65008  
Register No. 5081/2014  
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Stationery..	0.24 Eur	
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Total	70.24 Eur	



- 1) ATMOSPHERIC FLIGHT DYNAMICS -----  
----- 3.0 ECTS, with 19(nineteen) values
- 1) ETHICS AND ENGINEERING FOR AEROSPACE ENGINEERING -----  
----- 3.0 ECTS, with 16(sixteen) values
- 1) EXERCISE AUTOMATIC FLIGHT CONTROL SYSTEM DESIGN -----  
----- 1.0 ECTS, with 18(eighteen) values
- 1) HUMAN-MACHINE SYSTEMS IN AEROSPACE PROJECT -----  
----- 1.0 ECTS, with 18(eighteen) values
- 1) KNOWLEDGE BASED CONTROL SYSTEMS -----  
----- 4.0 ECTS, with 17(seventeen) values
- 1) MODELING AND NONLINEAR SYSTEMS THEORY -----  
----- 4.0 ECTS, with 19(nineteen) values
- 1) MODERN FLIGHT TEST TECHNOLOGIES AND SYSTEM IDENTIFICATION ---  
----- 3.0 ECTS, with 19(nineteen) values
- 1) PREDICTIVE CONTROL SYSTEMS -----  
----- 4.0 ECTS, with 17(seventeen) values
- 1) SPACECRAFT ATTITUDE CONTROL SYSTEMS -----  
----- 3.0 ECTS, with 17(seventeen) values
- 1) SPACECRAFT ATTITUDE CONTROL SYSTEMS EXERCISE -----  
----- 1.0 ECTS, with 17(seventeen) values
- OPTIMAL AND ADAPTIVE CONTROL -----  
----- 6.0 ECTS, with 19(nineteen) values
- ARTIFICIAL INTELLIGENCE AND DECISION SYSTEMS -----  
----- 6.0 ECTS, with 18(eighteen) values
- AEROSPACE DESIGN ----- 6.0 ECTS, with 16(sixteen) values
- AUTONOMOUS SYSTEMS ----- 6.0 ECTS, with 19(nineteen) values
- DISTRIBUTED REAL TIME CONTROL SYSTEMS -----  
----- 6.0 ECTS, with 19(nineteen) values
- AEROSPACE ENGINEERING MASTER THESIS -----  
----- 30.0 ECTS, with 19(nineteen) values
- 
- 1) Courses taken in DELFT UNIVERSITY OF TECHNOLOGY -----

*Maria Cristina de Oliveira Santos Matos David Ezra*

Maria Cristina de Oliveira Santos Matos David Ezra  
Coordinator of Núcleo de Graduação

Instituto Superior Técnico, Lisboa, on the 07 of March, 2014

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