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

CERTIFIES that,

SOFIA LOPES MONTEIRO -----

with Identity Card Num. 14383202 -----

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

and PORTUGUESE nationality -----

concluded the 1st Cycle, of the degree in INTEGRATED MASTER
 DEGREE (MSC) in BIOMEDICAL ENGINEERING, on the 01 July 2015, with
 the final grade of 16 (sixteen) values having received a total of
 180.0 ECTS, has the right to the degree of Graduate in
 Engineering Sciences - Biomedical Engineering, having been issued
 the registry diploma number 23747/ISTCL/16 with approval on the
 following curricular units:

LINEAR ALGEBRA ----- 6.0 ECTS, with 13(thirteen) values

ANATOMY AND HISTOLOGY ----- 6.0 ECTS, with 13(thirteen) values

DIFFERENTIAL AND INTEGRAL CALCULUS I -----

----- 6.0 ECTS, with 13(thirteen) values

ELEMENTS OF PROGRAMMING ---- 6.0 ECTS, with 18(eighteen) values

INTRODUCTION OF BIOMEDICAL ENGINEERING -----

----- 6.0 ECTS, with 18(eighteen) values

i) BIOELECTRICIDADE / BIOELECTRICITY -----

----- 4.5 ECTS, with 16(sixteen) values



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DIFFERENTIAL AND INTEGRAL CALCULUS II -----
 ----- 7.5 ECTS, with 14 (fourteen) values
 MECHANICS AND WAVES ----- 6.0 ECTS, with 16 (sixteen) values
 CHEMISTRY ----- 6.0 ECTS, with 14 (fourteen) values
 CIRCUITS THEORY AND ELECTRONIC FUNDAMENTALS -----
 ----- 6.0 ECTS, with 14 (fourteen) values
 COMPLEX ANALYSIS AND DIFFERENTIAL EQUATIONS -----
 ----- 7.5 ECTS, with 17 (seventeen) values
 BIOCHEMISTRY AND MOLECULAR BIOLOGY -----
 ----- 6.0 ECTS, with 18 (eighteen) values
 SYSTEMS PHYSIOLOGY ----- 6.0 ECTS, with 17 (seventeen) values
 COMPUTATIONAL MATHEMATICS -- 4.5 ECTS, with 17 (seventeen) values
 THERMODYNAMICS AND THE STRUCTURE OF MATTER -----
 ----- 6.0 ECTS, with 14 (fourteen) values
 ALGORITHMS AND COMPUTATIONAL MODELLING -----
 ----- 6.0 ECTS, with 17 (seventeen) values
 ELECTROMAGNETISM AND OPTICS -----
 ----- 6.0 ECTS, with 12 (twelve) values
 MANAGEMENT ----- 4.5 ECTS, with 18 (eighteen) values
 PROBABILISTIC AND STATISTICS -----
 ----- 6.0 ECTS, with 17 (seventeen) values
 ii) SISTEMAS INTEGRADOS E REGULAÇÃO METABÓLICA / INTEGRATED
 SYSTEMS AND METABOLIC REGULATION -----
 ----- 7.5 ECTS, with 18 (eighteen) values
 GENETIC ENGINEERING ----- 6.0 ECTS, with 16 (sixteen) values
 APPLIED MECHANICS ----- 6.0 ECTS, with 17 (seventeen) values
 QUANTUM MECHANICS I ----- 6.0 ECTS, with 16 (sixteen) values
 GENERAL MECHANISMS OF DISEASE -----
 ----- 6.0 ECTS, with 17 (seventeen) values
 SIGNALS AND SYSTEMS ----- 6.0 ECTS, with 16 (sixteen) values
 ELECTRONICS ----- 6.0 ECTS, with 16 (sixteen) values
 CONTINUUM MECHANICS ----- 6.0 ECTS, with 18 (eighteen) values
 COMPUTATIONAL MODELLING IN MECHANICS -----
 ----- 6.0 ECTS, with 18 (eighteen) values
 PRINCIPLES OF PHYSICAL CHEMISTRY -----
 ----- 6.0 ECTS, with 18 (eighteen) values

Student No. 76827
 Register No. 27007/2015
 Conferred by: _____

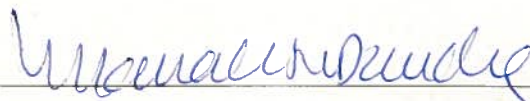


Stationery..	0.36 Eur	
Cert. Amount	70.00 Eur	
Urgency.....	0.00 Eur	Page 2 of 3
Total	70.36 Eur	

ORGANIC CHEMISTRY ----- 6.0 ECTS, with 18(eighteen) values

i) Courses taken in UNIVERSIDADE DE LISBOA (CLÁSSICA) - -----
FACULDADE DE MEDICINA -----

ii) Courses taken in UNIVERSIDADE DE LISBOA - FACULDADE DE ----
MEDICINA -----



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

Instituto Superior Técnico, Lisboa, on the 25 of January, 2016

Student No. 76827
Register No. 27007/2015
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Registration Curriculum

Student: Sofia Lopes Monteiro (76827) - Identity Card (14383202)

Approvals	Total ECTS Credits	Average	Curricular Year			
30	180.0	16	-			
Inscrições	Grade	Weight	Ano	Lectivo		
Anatomy and Histology	13	6.0	2012/2013	1	Sem	
Differential and Integral Calculus I	13	6.0	2012/2013	1	Sem	
Elements of Programming	18	6.0	2012/2013	1	Sem	
Introduction of Biomedical Engineering	18	6.0	2012/2013	1	Sem	
Linear Algebra	13	6.0	2012/2013	1	Sem	
Chemistry	14	6.0	2012/2013	2	Sem	
Circuits Theory and Electronic Fundamentals	14	6.0	2012/2013	2	Sem	
Differential and Integral Calculus II	14	7.5	2012/2013	2	Sem	
Mechanics and Waves	16	6.0	2012/2013	2	Sem	
Biochemistry and Molecular Biology	18	6.0	2013/2014	1	Sem	
Complex Analysis and Differential Equations	17	7.5	2013/2014	1	Sem	
Computational Mathematics	17	4.5	2013/2014	1	Sem	
Systems Physiology	17	6.0	2013/2014	1	Sem	
Thermodynamics and the Structure of Matter	14	6.0	2013/2014	1	Sem	
Algorithms and Computational Modelling	17	6.0	2013/2014	2	Sem	
Electromagnetism and Optics	12	6.0	2013/2014	2	Sem	
Management	18	4.5	2013/2014	2	Sem	
Probabilistic and Statistics	17	6.0	2013/2014	2	Sem	
Applied Mechanics	17	6.0	2014/2015	1	Sem	
General Mechanisms of Disease	17	6.0	2014/2015	1	Sem	

Genetic Engineering		16	6.0	2014/2015	1 Sem
Quantum Mechanics I		16	6.0	2014/2015	1 Sem
Signals and Systems		16	6.0	2014/2015	1 Sem
Computational Modelling in Mechanics		18	6.0	2014/2015	2 Sem
Continuum Mechanics		18	6.0	2014/2015	2 Sem
Electronics		16	6.0	2014/2015	2 Sem
Organic Chemistry		18	6.0	2014/2015	2 Sem
Principles of Physical Chemistry		18	6.0	2014/2015	2 Sem
Substituições		Grade	Weight	Ano Lectivo	
Bioelectricidade / Bioelectricity	Portugal > Universidade de Lisboa (Clássica) > Universidade de Lisboa (Clássica) - Faculdade de Medicina > Bioelectricidade / Bioelectricity	16	4.5	2012/2013	2 Sem
Sistemas Integrados e Regulação Metabólica / Integrated Systems and Metabolic Regulation	Portugal > Universidade de Lisboa > Universidade de Lisboa - Faculdade de Medicina > Sistemas Integrados e Regulação Metabólica / Integrated Systems and Metabolic Regulation	18	7.5	2013/2014	2 Sem
		Ano Curricular		Ano Lectivo	
		ECTS			
Anatomy and Histology	6.0	2012/2013		1 Sem	
Differential and Integral Calculus I	6.0	2012/2013		1 Sem	
Elements of Programming	6.0	2012/2013		1 Sem	
Introduction of Biomedical Engineering	6.0	2012/2013		1 Sem	
Linear Algebra	6.0	2012/2013		1 Sem	
Bioelectricity	4.5	2012/2013		2 Sem	
Chemistry	6.0	2012/2013		2 Sem	
Circuits Theory and Electronic Fundamentals	6.0	2012/2013		2 Sem	
Differential and Integral Calculus II	7.5	2012/2013		2 Sem	
Mechanics and Waves	6.0	2012/2013		2 Sem	
Biochemistry and Molecular Biology	6.0	2013/2014		1 Sem	
Complex Analysis and Differential Equations	7.5	2013/2014		1 Sem	
Computational Mathematics	4.5	2013/2014		1 Sem	
Systems Physiology	6.0	2013/2014		1 Sem	
Thermodynamics and the Structure of Matter	6.0	2013/2014		1 Sem	
Algorithms and Computational Modelling	6.0	2013/2014		2 Sem	
Electromagnetism and Optics	6.0	2013/2014		2 Sem	
Management	4.5	2013/2014		2 Sem	
Probabilistic and Statistics	6.0	2013/2014		2 Sem	
Sistemas Integrados e Regulação Metabólica - FM/UL	7.5	2013/2014		2 Sem	

Applied Mechanics	6.0	2014/2015	1 Sem
General Mechanisms of Disease	6.0	2014/2015	1 Sem
Genetic Engineering	6.0	2014/2015	1 Sem
Quantum Mechanics I	6.0	2014/2015	1 Sem
Signals and Systems	6.0	2014/2015	1 Sem
Computational Modelling in Mechanics	6.0	2014/2015	2 Sem
Continuum Mechanics	6.0	2014/2015	2 Sem
Electronics	6.0	2014/2015	2 Sem
Organic Chemistry	6.0	2014/2015	2 Sem
Principles of Physical Chemistry	6.0	2014/2015	2 Sem

Somatórios 180.0