

DEGREE CERTIFICATE

Cláudia Sofia Braz Rodrigues, Services Director of Academic Unit of Faculdade de Ciências da Universidade de Lisboa, authorized by sub-delegation, certifies that **Lucas da Costa Monteiro**, of Portuguese nationality, born on 23rd of September of 2000, bearer of Citizen Card number 13894613, was approved in the following course units of **Licenciatura Course in Physics - Branch of Astronomy and Astrophysics**, concluded on the 9th of June of 2021, with the final grade of **16** (Sixteen) and the rank B in the ECTS grading scale (grading system defined in the European Credit Transfer and Accumulation System) and has been awarded the **Degree of Licenciado**:

Course Units	Approval Date	Grade ¹	ECTS ²	ECTS Grade ³
13534 - Linear Algebra and Analytic Geometry	2019-01-11	15	6.0	C
34711 - Mechanics	2019-01-14	17	6.0	A
26701 - Programming I	2019-01-17	16	6.0	B
13548 - Differential and Integral Calculus I	2019-01-19	15	6.0	B
44409 - General Chemistry	2019-01-22	18	6.0	A
34721 - Experimental Physics I	2019-06-05	15	6.0	C
85119 - Critical Thinking	2019-06-06	10	3.0	D
22743 - Elements of Probability and Statistics	2019-06-07	16	6.0	B
34712 - Electromagnetism	2019-06-14	18	6.0	A
13549 - Differential and Integral Calculus II	2019-06-25	14	6.0	C
34716 - Astronomy and Astrophysics	2019-07-06	19	3.0	A
13550 - Differential and Integral Calculus III	2020-01-09	13	6.0	B
34724 - Experimental Physics II	2020-01-10	15	6.0	C
34723 - Thermodynamics and Kinetic Theory	2020-01-14	15	6.0	C
34722 - Numerical Methods	2020-01-17	16	6.0	B
34727 - Analytical Mechanics	2020-01-20	15	6.0	B
34725 - Modern Physics	2020-06-09	19	6.0	A
34729 - Experimental Physics III	2020-06-09	17	6.0	B



34779 - Classical Electrodynamics	2020-06-22	14	6.0	B
34726 - Mathematical Methods for Physicists	2020-06-25	17	6.0	B
34728 - Waves and Optics	2020-07-04	10	6.0	E
34731 - Quantum Mechanics	2021-01-08	17	6.0	A
93114 - Entrepreneurship in Science	2021-01-08	14	3.0	D
34733 - Computational Physics	2021-01-13	14	6.0	C
34736 - Astronomy	2021-01-14	19	6.0	A
71717 - Earth, Environment and Climate	2021-01-27	19	3.0	A
34782 - Astrophysics Laboratory	2021-02-05	18	6.0	B
34713 - Condensed Matter Physics	2021-05-12	16	6.0	B
34740 - Astrophysics	2021-05-14	17	6.0	C
34739 - Nuclear and Particle Physics	2021-05-18	15	6.0	B
34737 - Relativity and Cosmology	2021-05-20	17	6.0	B
34735 - Atomic and Molecular Physics	2021-06-09	13	6.0	C

This certificate bears the Faculdade de Ciências da Universidade de Lisboa legal stamp.

The student has requested the registration certificate.

Faculdade de Ciências da Universidade de Lisboa, in 24th of June of 2021



Cláudia Sofia Braz Rodrigues

The Services Director

- 1 **Grade**
(0-20 (scale); AP – Approved)
A – Approved
- 2 **ECTS** - European Credit Transfer and Accumulation System
- 3 **EECC** ECTS grading scale
(A – Excellent; B – Very Good; C – Good; D – Satisfactory; E – Sufficient)

Fee: 20.00 €

Issued Ana Cunha

Verified Leonor Bernardes