

# PERSONAL ACADEMIC RECORD CERTIFICATE

**I, ARESATZ USOBIAGA EPELDE**  
 University Registrar  
 of the Faculty of Science and Technology  
**DO HEREBY CERTIFY that**

**ADRIAN MELENDEZ LORENZO, holder of ID card N. 79130573Q, who entered**

**the University and**  
**the studies Double Degree in Physics and Electronic Engineering in the academic year 2017/18**

previous studies: Upper secondary with entrance exam (LOMCE) (Ciencias)  
 with the grade 9,58 (Honours)  
 in ordinary session of 2017  
 entrance examination: University entrance exam for upper-secondary education students (EAU) (Fase de Acceso)  
 with the grade 9,168 (Pass)  
 at University of the Basque Country  
 in ordinary session of 2017

**the Faculty of Science and Technology in the academic year 2017/18,**  
**on the course leading to the Bachelor's Degree in Physics,**  
**under a syllabus approved on 20/12/2010 and published in the Spanish Official Gazette on 31/01/2011,**

previous studies: Upper secondary with entrance exam (LOMCE) (Ciencias)  
 with the grade 9,58 (Honours)  
 in ordinary session of 2017  
 entrance examination: University entrance exam for upper-secondary education students (EAU) (Fase de Acceso)  
 with the grade 9,168 (Pass)  
 at University of the Basque Country  
 in ordinary session of 2017

**Has the following academic record:**

SUBJECT NAME	UNIV.	NO. OF CREDITS	TYPE	DATE	EXAM SESSION	GRADE	MARK	SESSION
<b>First year</b>								
Chemistry I	UPV/ EHU	6,00	D	2018/02/07	January	Honours	9,50	1
Chemistry II	UPV/ EHU	6,00	D	2018/06/25	May	Good	8,00	1
Differential and Integral Calculus I	UPV/ EHU	12,00	D	2018/06/20	May	Good	7,00	1
Experimental Techniques I	UPV/ EHU	6,00	D	2018/06/22	May	Honours	9,50	1
General Physics	UPV/ EHU	12,00	D	2018/06/15	May	Honours	10,00	1
Introduction to Computation	UPV/ EHU	6,00	S	2018/02/12	January	Excellent	9,70	1
Linear Algebra and Geometry I	UPV/ EHU	12,00	D	2018/06/15	May	Honours	9,50	1
<b>Second year</b>								
Electromagnetism I	UPV/ EHU	6,00	O	2019/02/07	January	Good	8,00	1
Electronics	UPV/ EHU	6,00	O	2019/02/14	January	Honours	10,00	1
Experimental Techniques II	UPV/ EHU	6,00	O	2019/06/17	May	Excellent	9,00	1
Mathematical Methods	UPV/ EHU	12,00	O	2019/06/14	May	Good	8,50	1
Mechanics and Waves	UPV/ EHU	15,00	O	2019/06/17	May	Excellent	9,30	1
Modern Physics	UPV/ EHU	6,00	O	2019/06/13	May	Good	8,10	1
Vector and Complex Analysis	UPV/ EHU	9,00	O	2019/06/18	May	Good	8,00	1
<b>Third year</b>								
Computational Methods	UPV/ EHU	9,00	O	2020/06/11	May	Excellent	9,00	1
Electromagnetism II	UPV/ EHU	6,00	O	2020/02/04	January	Good	8,50	1
Experimental Techniques III	UPV/ EHU	9,00	O	2020/05/30	May	Honours	9,30	1
Optics	UPV/ EHU	6,00	O	2020/02/05	January	Pass	6,30	1
Quantum Physics	UPV/ EHU	12,00	O	2020/06/08	May	Good	8,50	1
Statistical Physics & Thermodynamics	UPV/ EHU	12,00	O	2020/06/13	May	Good	8,20	1
<b>Fourth year</b>								



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<b>Fourth year</b>								
Analog Electronics	UPV/ EHU	6,00	P	2021/06/14	May	Excellent	9,10	1
Automatic Control I	UPV/ EHU	6,00	P	2021/06/15	May	Excellent	9,00	1
Electrodynamics	UPV/ EHU	6,00	P	2022/01/26	January	Honours	9,80	1
Final Year Project	UPV/ EHU	12,00	Y	2022/07/22		Excellent	9,50	1
Nuclear & Particle Physics	UPV/ EHU	6,00	O	2021/06/08	May	Honours	9,50	1
Quantum Mechanics	UPV/ EHU	6,00	P	2022/02/09	January	Excellent	9,30	1
Solid State Physics I	UPV/ EHU	6,00	O	2021/01/18	January	Honours	10,00	1
. - .								
Gravity and Cosmology	UPV/ EHU	6,00	P	2022/06/06	May	Excellent	9,00	1
Instrumentation I	UPV/ EHU	6,00	P	2020/06/04	May	Honours	9,00	1
Sensors and Drive Systems	UPV/ EHU	6,00	P	2022/02/09	January	Honours	9,60	1
Signals & Systems	UPV/ EHU	6,00	P	2021/02/01	January	Honours	10,00	1

\* **Type:** D=Basic area-subject S=Basic from other areas O=Compulsory P=Elective Y=Final year project

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FINAL YEAR PROJECT	DATE DEFENDED	GRADE
Física de colisiones de iones pesados	2022/07/15	9,5 Excellent

## DEGREE CERTIFICATE

On 2022/07/25 paid the fees prescribed by the regulations in force for the issue of the degree certificate which accredits the student as a:  
**Bachelor's Degree in Physics**

This qualification is recognised at level 2 in the Spanish Framework of Higher Education Qualifications (MECES) and corresponds to level 6 of the European Qualifications Framework (EQF), according to Royal Decree 22/2015 of 23rd January 2015 (BOE Spanish Official Gazette 07/02/2015).

## SUMMARY OF WORK EXPERIENCE

### EXTRA-CURRICULAR WORK EXPERIENCE

Subject name	Hours	Acad. year	Language	Organisation	Country
Thermodynamic properties of exchange graded magnetic films	315	20-21	Inglés	ASOCIACIÓN CIC NANOGUNE	Spain

## SUMMARY OF CREDITS

TYPE OF SUBJECT	CREDITS REQUIRED	PENDING CREDITS
Basic area-subject	54	0
Basic from other areas	6	0
Compulsory	126	0
Elective	42	0
Final year project	12	0
<b>TOTAL</b>	<b>240</b>	<b>0</b>

**HE HAS PASSED ALL THE SUBJECTS OF THE DEGREE.  
GRADE AVERAGE:**

**Out of 10: 8,93 (Good)**



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So that this may be placed on record, I issue this certificate.

In Leioa, December 21, 2022

General Secretariat

In the Spanish university system, each subject is graded on a scale from 0 to 10 points. Each numeric grade corresponds to a quality grade as follows: Failed: 0 - 4,9, Pass: 5 - 6,9, Good: 7 - 8,9, Excellent: 9 - 10, Honours means getting excellent plus a special mention. To pass a subject is necessary to get at least 5 points.

In accordance with the provisions of the rules for permanence approved by the social council of the University of the Basque Country, as from academic year 2005/06, grade "examination not taken" does not use up a sitting. The previous regulation in force from 1993/94, under which four "examination not taken" grades counted as one sitting is therefore null and void.

The subjects appearing in this document have been taken in the languages indicated in the following nomenclature:

G: German, B: Basque, F: French, E: English



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