

ACADEMIC TRANSCRIPT

Mr. Rafael Contreras Cebrián, Attestor of Facultat de Ciències of the Universitat Autònoma de Barcelona

HEREBY CERTIFIES: that the following information corresponds to the documents held on-file in this office,

STUDENT DETAILS

Name and surnames: Maroua Marso Chairi El Fellah

National ID/NIE/Passport: 49978769E

Place of birth: Tetouan

Date of birth: 22 August 1997

INFORMATION ON DEGREE STUDIES

Centre: Faculty of Sciences

Studies: Bachelor's Degree in Physics + Bachelor's Degree in Mathematics

Payment Issuance Degree:

Weighted Average Grade:Scale 0-4

3,20*/ average grade calculated on a scale of 0-4 in accordance with* RD 1497/1987 (modified by RD 1267/1994 - RD 1044/2003)/

Weighted Average Grade:Scale 0-10

8,02** average grade calculated on a scale of 0-10 in accordance with** RD 1125/2003, Sept. 5 (GC 19/03/2015)

SUBJECTS DETAILED IN THIS ACADEMIC TRANSCRIPT

Subject (credits / type)	Academic year	Conv. 1	Conv. 2
100137 Mechanics and Relativity 6,0 credits (Compulsory subject,First Year)	2015/16	J 7,2 B	
100138 Electricity and Magnetism 6,0 credits (Compulsory subject,First Year)	2015/16	J 9.0 A	

Subject (credits / type)	Academic year	Conv. 1	Conv. 2
100150 Waves and Optics	2015/16	J 9.2 A	
6,0 credits (Compulsory subject,First Year)			
100145 Introduction to Experimental Physics	2015/16	J 8.7 B	
6,0 credits (Compulsory subject,First Year)			
100089 Fundamentals of Mathematics	2015/16	F 9.1 A	
9,0 credits (Compulsory subject,First Year)			
100091 Computer Tools for Mathematics (annual)	2015/16	J 8.7 B	
9,0 credits (Compulsory subject,First Year)			
100087 Real Variable Functions	2015/16	J 7.1 B	
12,0 credits (Compulsory subject,First Year)			
100088 Linear Algebra.	2015/16	J 7.8 B	
12,0 credits (Compulsory subject,First Year)			
100148 Classical Mechanics	2016/17	J 6.5 C	
10,0 credits (Compulsory subject,Second Year)			
100149 Electromagnetism	2016/17	J 7.5 B	
10,0 credits (Compulsory subject,Second Year)			
100150 Mechanics Laboratory	2016/17	F 8.7 B	
5,0 credits (Compulsory subject,Second Year)			
100151 Electromagnetism Labortory	2016/17	J 9.2 A	
5,0 credits (Compulsory subject,Second Year)			
100139 Structure of Matter and Thermodynamics	2016/17	J 9.5 A	
6,0 credits (Compulsory subject,Second Year)			
100147 Chemistry for Physicists	2016/17	F 9.8 A	
6,0 credits (Compulsory subject,Second Year)			
100095 Linear Geometry	2016/17	J 7.2 A	
6,0 credits (Compulsory subject,Second Year)			

Subject (credits / type)	Academic year	Conv. 1	Conv. 2
100096 Algebraic Structures	2016/17	J 7.6 A	
9,0 credits (Compulsory subject,Second Year)			
100093 Calculus of several variables and optimization	2016/17	F 5.3 C	
9,0 credits (Compulsory subject,Second Year)			
100154 Quantum Physics I	2017/18	F 7.3 B	
6,0 credits (Compulsory subject,Third Year)			
100155 Quantum Physics II	2017/18	J 8,1 B	
6,0 credits (Compulsory subject,Third Year)			
100100 Differential equations and modelling I	2017/18	F 7,3 B	
9,0 credits (Compulsory subject,Third Year)			
100101 Differential equations and modelling II	2017/18	J 7,7 B	
6,0 credits (Compulsory subject,Third Year)			
100098 Discrete Mathematics Seminar	2017/18	F 9,2 A	
6,0 credits (Compulsory subject,Third Year)			
100097 Numerical Methods	2017/18	J 8.5 B	
12,0 credits (Compulsory subject,Third Year)			
100094 Mathematical Analysis	2017/18	J 8.2 B	
9,0 credits (Compulsory subject,Third Year)			
100103 Complex and Fourier analysis	2017/18	J 6.8 C	
6,0 credits (Compulsory subject,Third Year)			
100106 Topology	2017/18	J 8.8 B	
6,0 credits (Compulsory subject,Third Year)			
100157 Thermodynamics and Statistical Mechanics	2018/19	J 9.4 A	
9,0 credits (Compulsory subject,Fourth Year)			

Subject (credits / type)	Academic year	Conv. 1	Conv. 2
100156 Optics	2018/19	J 8,4 B	
9,0 credits (Compulsory subject,Fourth Year)			
100158 Thermodynamics Laboratory	2018/19	F 9.3 A	
5,0 credits (Compulsory subject,Fourth Year)			
100159 Optics Laboratory	2018/19	J 9.4 A	
5,0 credits (Compulsory subject,Fourth Year)			
100104 Probability and Stochastic Modelling	2018/19	F 8,1 B	
8,0 credits (Compulsory subject,Fouth Year)			
100105 Statistics	2018/19	J 9,0 A	
7,0 credits (Compulsory subject,Fourth Year)			
100102 Galois Theory	2018/19	F 7,3 B	
6,0 credits (Compulsory subject,Fourth Year)			
100107 Differencial Geometry	2018/19	J 8,7 B	
12,0 credits (Compulsory subject,Fourth Year)			
100161 Introduction to Astrophysics	2018/19	J 9.2 A	
5,0 credits (Optional subject,Fourth Year)			
100171 Quantum Mechanics	2019/20	F 8.7 B	
6,0 credits (Optional subject,Fifth Year)			
100173 Electrodynamics and Synchrotron Radiation	2019/20	F 8.8 B	
6,0 credits (Optional subject,Fifth Year)			
100170 History of Physics	2019/20	J 9.6 A	
6,0 credits (Optional subject,Fifth Year)			
100182 Quantum Information	2019/20	J 9.2 A	
6,0 credits (Optional subject,Fifth Year)			

Subject (credits / type)	Academic year	Conv. 1	Conv. 2
100184 Nanomaterial Physics	2019/20	J 9,0 A	
6,0 credits (Optional subject,Fifth Year)			
100126 Advanced programming	2019/20	F 9.1 A	
6,0 credits (Optional subject,Fifth Year)			
104051 Bachelor's Degree Final Project Physics	2019/20	J 9.6 A	
12,0 credits (Compulsory subject,Fifth Year)			
104051 Bachelor's Degree Final Project Mathematics	2019/20		

SUMMARY OF ACADEMIC RECORD

Total Subjects Passed: 45

Total Credits Attained: 330

Examination sessions are abbreviated as follows: F: February, J: June, N: November, Y: May.

The total number of subjects detailed on this transcript is 45, from a total of 330 credits, as detailed below:

Credits Passed by Type	Passed	Remaining	Required
Compulsory subject	184,0	12,0	196,0
Optional subject	47,0	0	47,0
Basic studies	63,0	0	63,0
Academic Objective	Successfully Completed		
- Graduate in Physics and Mathematics		*	

The Universitat Autònoma de Barcelona is a Catalan public university with three campus sites in the metropolitan region of Barcelona.

The university is regulated by the Spanish Universities Act; the Catalan Universities Act and the developmental regulations of these laws as established by Spain and the Government of Catalonia, through their respective powers. It is additionally regulated by its own Decree (Law 5/1968 of 6 June 1968) and its Statutes approved by Decree 237/2003 of 8 October 2003 (Article 1). The University is registered with code 22 in the Spanish Registry of Universities, Centres and Degrees (RUCT).

ADDITIONAL INFORMATION: GRADING SYSTEM

Students academic performance is evaluated on a numerical scale from 0 to 10, in which 5 is the minimum grade for a pass. Correspondence with the qualitative grades approved by the UAB is the following:

SRD 1125/2003 Scale 0-10	SRD 1044/2003 Scale 0-4	ECTS Scale
Absent/Not assessable	Absent/Not assessable	-
Fail: 0.0 - 4.9	Fail: 0	F
C: 5.0 - 6.9	C:1	С
B: 7.0 - 8.9	B: 2	В
A: 9.0 - 10	A: 3	Α
A with Honours: 9.0-10	A with Honours: 4	A+

Bellaterra (Cerdanyola del Vallès), 14 July 2020.





Document signed electronically.