



Universidade do Minho
Serviço de Gestão Académica

Carla Isabel Pereira Lavrador, Registrar of the University of Minho, hereby certifies, according to University records, that Gustavo João Gonçalves Caldas, born in the parish of Segude, in the county of Monção, in the district of Viana do Castelo, son of João Carlos Marques Caldas and of Maria Celeste Rodrigues Gonçalves, obtained the following passing grades in the course units that constitute the *Mestrado* in Engineering and Management of Information Systems, Specialization Area in Information Systems Engineering:

Course Unit	Regime (1)	Type (2)	Academic Year	PT Mark (3)	ECTS Mark (4)	Credits (5)	Obs. (6)(7) (8)
Information Systems Analysis and Design	1	Ob	2021/2022	17	B	5.0	
Machine Learning for Enterprise Systems	1	Ob	2021/2022	15	C	5.0	
Information Presentation and Visualization	1	Ob	2021/2022	18	A	5.0	
Project Management in Information Systems and Technologies	1	Ob	2021/2022	17	B	5.0	(6)
Corporate Strategy	1	Ob	2021/2022	16	C	5.0	
Information Technologies Infrastructures	1	Ob	2021/2022	14	D	5.0	
Option 1 - Law and Information	1	Op	2021/2022	16	C	5.0	
Architectures for Distributed Information Systems	2	Ob	2021/2022	16	C	5.0	
Information Systems Security Engineering	2	Ob	2021/2022	17	B	5.0	(6)
Engineering and Innovation of Services	2	Ob	2021/2022	14	D	5.0	
Management of Information Systems	2	Ob	2021/2022	14	D	5.0	
Option 2 (Option)	2	Op	2021/2022	14	D	5.0	(6)
Predictive and Prescriptive Business Analytics	2	Ob	2021/2022	16	C	5.0	
Option 3 - Dissertation	A	Op	2022/2023	18	A	45.0	
Research and Development in Information Systems and Technologies	1	Ob	2022/2023	15	C	5.0	
Trends and Impacts of Information Systems and Technologies	1	Ob	2022/2023	14	D	5.0	

- (1) – Regime: A – Annual 1 – 1st Semester 2 – 2nd Semester
(2) – Type: Ob – Compulsory Op – Optional
(3) – Grade: On a 0 to 20 grading scheme, a minimum grade of 10 in each course units is necessary to pass.
(4) – ECTS Grading Scale

ECTS Grading Scale	% of approved students
A	10
B	25
C	30
D	25
E	10

In order to establish the course units grades for each group of the ECTS grading scale, the distribution of students with passes in the previous five academic years and/or in a total of at least thirty students is taken into consideration. When a cohort of this scale is impossible, the ECTS grading scale is replaced by the use of an institutional conversion table based on all course units grades of all University of Minho's Degree Courses from the previous five academic years. It is important to notice that not all groups of the ECTS grading scale might be represented.

- (5) – ECTS Credits: 1 academic year = 60 1 semester = 30
(6) – Course units subject to academic recognition
(7) – Extracurricular course units
(8) – Course units credited through proof of professional skills and/or other type of training

She also certifies that he completed the above-mentioned Degree on the 20th of June, 2024, with the final grade of 16 (sixteen), which confers a *Mestre* (master) degree.

This same certificate carries the embossed seal of this University.

The Registry of the University of Minho, on 04th of July, 2024.

The Registrar,