



universidade de aveiro Diploma Supplement

This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

1. information identifying the holder of the qualification

1.1. family name(s):

LARANJINHA CASIMIRO

1.2. given name(s):

PEDRO

1.3. date of birth (day-month-year):

12-11-2000

1.4. student identification number or code:

93179

1.5. identity card number:

30330596

2. information identifying the qualification

2.1. name of qualification and title conferred (in original language):

LICENCIATURA EM ENGENHARIA INFORMÁTICA (1º CICLO), LICENCIADO.

2.2. Main field(s) of study for the qualification:

Computer Science.

2.3. name (in original language) and status of awarding institution:

Universidade de Aveiro.

Public University - Public Foundation functioning under Private Law.

2.4. name (in original language) and status of institution (if different from 2.3) administering studies:

Not applicable.

2.5. language(s) of instruction/examination:

Portuguese.

3. information on the level of the qualification

3.1. level of qualification:

University Higher Education - Level 6 (EQF).

3.2. official Length of programme:

3 years full-time study.

3.3. access requirement(s):

Entry to the study programme can be gained through the National Higher Education Entry Scheme as well as through the Special Access Competition, Special Entry Scheme and the Course Transfer and Change Schemes. To apply through the National Higher Education Entry Scheme, candidates must satisfy the minimum requirements mentioned in Section 8 (Higher Education Entry Requirements), which are generally: Secondary School Certificate and Entry Examinations (Mathematics or Biology and Geology and Mathematics or Physics and Chemistry and Mathematics).



4. information on the contents and results gained

4.1. mode of study:

Full-time.

4.2. programme requirements:

Objectives

The aim of LEI is to provide a solid education in informatics engineering, an area that has proved in the last decades to be a fundamental development factor in advanced economies. Complementing the undergraduate offer of UA, this degree program provides 1st cycle education in Informatics Engineering with focus on Software Engineering and Information Systems.

More specifically, this degree program aims to provide the following competences:

- * Understand and use software development methodologies in small and large scale software projects.
- * Design and write correct, robust, efficient, well-organized and properly documented computer programs.
- * Understand and use models and abstractions in the design, implementation and usage of computational and information systems.
- * Understand the fundamental aspects of computer architecture and operating systems and its relevance in the development and execution of informatics applications.
- * Use knowledge in the areas of calculus, probabilities, statistics and discrete mathematics to solve problems in the area of informatics.
- * Apply quality evaluation and management techniques to software projects.
- * Communicate in an effective way and work within multidisciplinary teams.
- * Recognise the need and have the capacity to engage actively in a life-long continuous learning process.

The overall goals of the LEI program encompass skills as knowledge acquisition and application, critical analysis, efficient communication and autonomous learning, which are main features of the global education project of the University of Aveiro.

Career prospects

The labor market in the Informatics Engineering area in Portugal, Europe and world-wide needs more professionals. This degree program contributes to addressing the needs of the Informatics Engineering labor market, which is one of the most stable and promising for young graduates.

4.3. programme details (e.g. modules or course units), and individual grades/marks/credits obtained:

The detailed list of course units taken can be found enclosed (see Appendix I).

Scientific Areas:	
Compulsory	
ELE/Aps	- Electrotechnics / Signal Processing and Analysis
ELE/Tel	- Electrotechnics / Telecommunications
F	- Physics
I	- Computer Science
I/Asc	- Computer Science / Architecture of Computing Systems
I/Ctp	- Computer Science / Science and Technology of Programming
I/Si	- Computer Science / Information Systems
M	- Mathematics
Optional	
I	- Computer Science
I/Si	- Computer Science / Information Systems



4.4. grading scheme and, if available, grade distribution guidance:

For each course unit the minimum classification required to pass is 10, on a 0-20 scale.

Calculation formula for overall grade: weighted arithmetic average, by the respective weight in credits of the classifications obtained by the student in each one of the curricular units of the corresponding study programme. The result of this operation is expressed as a unit by means of rounding the result to the unit immediately above or below, depending on whether the excess is greater than/equal to or less than five decimal places.

4.5. overall classification of the qualification:

17 (Seventeen)

Concluded in the academic year 2020/2021, on 21-07-2021.

Considering the Last four years, the ECTS grade of the student is: B *.

(*) A - Best 10%; B - Best 35%; C - Best 65%; D - Best 90%; E - Best 90% <-> 100%





5. information on the function of the qualification

5.1. access to further study:

This qualification meets the requirements for applications to the degree of Mestre in accordance with section 8.

5.2. professional status:

Not aplicable.

6. additional information

6.1. additional information:

Other Information:

Was awarded the Scholarship for the Best Freshmen for being admitted to the 1st year of the 1st Cycle of Studies of the Courses of the University of Aveiro, in the academic year 2018/2019, through the national entrance competition, in the first phase and as first choice, with a classification equal to or higher than 175 points.

6.2. further information sources:

<http://www.ua.pt/ensino/PageCourse.aspx?id=383&p=3>.

7. certification of the supplement

7.1. date: 18 June 2024

7.2. signature:



Prof. Doutor Paulo Jorge dos Santos Gonçalves Ferreira

7.3. capacity:

Rector of Universidade de Aveiro.

7.4. digital stamp:

This document is authenticated with the digital stamp of the University of Aveiro.

8. information on the national higher education system

The description of Portuguese Higher education system, officially provided by DGES (Directorate-General for Higher Education), can be found enclosed (see appendix II).



Access to download the diploma supplement

<https://paco2.ua.pt/consulta-certidao/1ECA9-05D1FEC8-E4C4DE8F8>



APPENDIX I

Study Program Details

List of course units successfully completed

Course units	Y	Ac. Year	Date	Grade	ECTS Gr.	ECTS	obs
40379 - PROGRAMMING FUNDAMENTALS	1	2018/2019	14-01-2019	19	B	6,0	
40380 - INTRODUCTION TO WEB TECHNOLOGIES	1	2018/2019	21-01-2019	18	A	6,0	
41791 - ELEMENTS OF PHYSICS	1	2018/2019	15-01-2019	18	A	6,0	
42709 - LINEAR ALGEBRA AND ANALYTICAL GEOMETRY	1	2018/2019	09-01-2019	19	A	6,0	
42728 - CALCULUS I	1	2018/2019	17-01-2019	13	B	6,0	
40431 - ANALYSIS AND MODELLING OF SYSTEMS	1	2018/2019	14-06-2019	16	B	6,0	
40436 - OBJECT-ORIENTED PROGRAMMING	1	2018/2019	17-06-2019	17	B	6,0	
42502 - INTRODUCTION TO COMPUTER ARCHITECTURE	1	2018/2019	12-06-2019	19	A	6,0	
42729 - CALCULUS II	1	2018/2019	19-06-2019	12	C	6,0	
47166 - DISCRETE MATHEMATICS	1	2018/2019	24-06-2019	18	A	6,0	
40337 - PROBABILITY METHODS FOR INFORMATICS ENGINEERING	2	2019/2020	09-01-2020	17	B	6,0	
40381 - OPERATING SYSTEMS	2	2019/2020	17-01-2020	15	B	6,0	
40432 - MULTIMEDIA SYSTEMS	2	2019/2020	20-01-2020	16	B	6,0	
40433 - NETWORKS AND SERVICES	2	2019/2020	14-01-2020	16	B	6,0	
40437 - ALGORITHMS AND DATA STRUCTURES	2	2019/2020	08-01-2020	17	B	6,0	
40382 - DISTRIBUTED COMPUTING	2	2019/2020	25-06-2020	19	A	6,0	
40383 - SOFTWARE DESIGN AND PATTERNS	2	2019/2020	29-06-2020	15	B	6,0	
41469 - COMPILERS	2	2019/2020	14-07-2020	15	B	6,0	
41549 - HUMAN-COMPUTER INTERACTION	2	2019/2020	01-07-2020	16	B	6,0	
42532 - DATABASES	2	2019/2020	18-06-2020	15	B	6,0	
40384 - INTRODUCTION TO SOFTWARE ENGINEERING	3	2020/2021	08-02-2021	16	B	6,0	
40385 - ADVANCED DATABASES	3	2020/2021	12-02-2021	18	A	6,0	
40846 - ARTIFICIAL INTELLIGENCE	3	2020/2021	19-02-2021	18	A	6,0	
42573 - INFORMATION AND ORGANISATIONAL SECURITY	3	2020/2021	01-03-2021	17	A	6,0	
45424 - INTRODUCTION TO MOBILE COMPUTING (49905 - OPTION I)	3	2020/2021	19-02-2021	16	B	6,0	
40386 - PROFESSIONAL AND SOCIAL ASPECTS OF COMPUTER SCIENCE	3	2020/2021	21-07-2021	16	B	6,0	
40387 - PROJECT IN INFORMATICS	3	2020/2021	02-07-2021	16	C	12,0	
40551 - TECHNOLOGIES AND WEB PROGRAMMING (49906 - OPTION II)	3	2020/2021	05-07-2021	19	A	6,0	
45426 - SOFTWARE TESTING AND QUALITY CONTROL	3	2020/2021	29-06-2021	15	B	6,0	
Total ECTS:						180,0	

Legend - List of course units successfully completed

Y - Curricular Year; ECTS Gr. - ECTS Grade

* Course units taken under a mobility program (see section 6.1)

** The ECTS credit system was approved in 2000, therefore course units created before this date do not have ECTS Credits attributed.

*** The ECTS grading scale of course units approved under the terms of Decree-Law n.º 42/2005 of 22 February is applied only to course units organized under the ECTS credit system (European Credit Transfer System).



APPENDIX II

Information on the national higher education system

The Framework Law on the Education System (Law nr. 46/86, dated 14 October 1986, further amended by Laws nr.115/97, dated 19 September and nr. 49/2005, dated 30 August) establishes the general legal framework of the Education System.

According to this Law, the educational system comprises three levels: basic, secondary and higher education.

Pre-school education is optional and is for children between the ages of three and the age of entering basic education.

Basic Education is universal, compulsory and free and comprises three cycles, the first cycle lasts for four years, the second lasts for two years and the third lasts for three years.

Secondary education is compulsory and it comprises a three year cycle (corresponding to 10th, 11th and 12th year of schooling).

Higher Education Structure

The first steps towards the legal reform of the system of higher education were made in 2005, with the introduction of the new credit system (ECTS) for the cycles of study, mobility mechanisms, diploma supplement, amongst others. Changes were also made to the Basic Law for the Education System in order to implement the Bologna Process.

The new structure divided into three cycles of studies was created in 2006 and it was completely implemented in Portugal in 2009/2010. Generic qualification descriptors were also defined for each of the cycles of studies, based on acquired competences, as well as the structure for the first and second cycles of study in terms of typical ECTS intervals.

Portuguese higher education includes university and polytechnic education. University education is offered by public and private university institutions while polytechnic education is offered by public and private non-university institutions. Private higher education institutions must be subject to the previous recognition of the Ministry of Education and Science. The higher education system comprises also a concordatory institution.

Licenciado degree

Both university and polytechnic institutions confer the degree of licenciado (bachelor). In polytechnic education, the cycle of studies that leads to the degree of licenciado has 180 credits and a normal length of six curricular semesters of students' work. In certain cases namely those covered by internal legislation or by European legislation, the cycle of studies can have up to 240 credits with a normal length of up to seven or eight curricular semesters of students' work.

In university education, the cycle of studies that leads to the degree of licenciado has from 180 to 240 credits and a normal length between six to eight curricular semesters of students' work.

In the first cycle of studies the degree of licenciado is conferred, by universities or polytechnics institutions, to those that, after concluding all the curricular units that integrate the study programme of the licenciatura course, have obtained the established number of credits.

Mestre degree

Both university and polytechnic institutions confer the degree of mestre (master). The cycle of studies that leads to the degree of mestre has from 90 to 120 credits and a normal length of between three to four curricular semesters of students' work or in exceptional circumstances, 60 credits and a duration of two semesters, resulting from a stable and consolidated practice in that specific field at international level.

In polytechnic education, the cycle of studies that leads to the mestre degree must ensure predominantly that the student acquires a professional specialization. In university education, the cycle of studies that leads to the mestre degree must ensure that the student acquires an academic specialization resorting to research, innovation or expansion of professional competences. In university education, the mestre degree may also be conferred after an integrated cycle of studies, with 300 to 360 credits and a normal length of 10 to 12 curricular semesters of students' work, in cases for which the access to the practice of a certain professional activity depends on that length of time established by legal EU standards or resulting from a stable practice consolidated in the European Union. In this cycle of studies the degree of licenciado is conferred to those who have obtained 180 credits corresponding to the first six semesters of work.

The degree of mestre is conferred to those that, after concluding all the curricular units that integrate the study programme of the mestrado course, have obtained the established number of credits, as well as successfully defended in public their dissertation, their project work or their traineeship report.

Doutor degree

The Doutor (doctor) degree is conferred by universities and university institutes. The degree of Doutor is conferred to those that, after concluding all the curricular units that integrate the study programme of the Doutoramento (doctorate) course, when applicable, and have successfully defended their thesis in the public act.

Access conditions

General regime to accede to higher education

National and foreign students wishing to apply through the general regime to the first cycle of studies, must fulfil the following conditions:

- Have successfully completed a secondary course or a national or foreign qualification legally equivalent;
- Have set for the entrance examinations required for the degree programme the student wishes to attend and get the minimal mark required (there are higher education institutions that accept foreign tests or exams);
- Have fulfilled the prerequisites for the higher education course the student wishes to attend, if required.

Special conditions

Besides the regime geral (general regime), there are special conditions for top level athletes, Portuguese citizens on an official mission abroad, national or foreign staff in diplomatic mission, permanent staff of the Portuguese Armed Forces and scholarship holders within the framework of cooperation agreements signed by Portugal.

Special Competitions

Besides the general regime and the special conditions there are also special competitions for applicants with certain specific qualifications thus allowing new publics to accede to higher education in a perspective of lifelong learning, namely:

- applicants over 23 years old who have passed a especial exam for assessing their capacity to accede to higher education;
- holders of a specialization technological course (non higher education post-secondary course).

Admission to higher education institutions is subject to numerus clausus

Admission to the second cycle of studies

Those who meet the following conditions may apply to the cycle of studies that leads to the mestre degree:

- Holders of the licenciado degree or legal equivalent;



- Holders of a foreign academic degree duly recognised as satisfying the objectives identical to the licenciado degree by the competent scientific body of the higher education institution where one wishes to be admitted;
- Holders of an academic, scientific or professional curriculum vitae that is recognized as attesting the capacity to carry out this cycle of studies by the statutorily competent scientific body of the higher education institution to which they wish to be admitted.

Admission to the third cycle of studies

Those who meet the following conditions may apply to the cycle of studies that leads to the doutor (doctor) degree:

- Holders of the mestre (master) degree or legal equivalent;
- Holders of a licenciado degree who have a particularly relevant academic or scientific curriculum vitae that is recognized as attesting the capacity to carry out this cycle of studies by the statutorily competent scientific body of the higher education institution to which they wish to be admitted.
- Holders of an academic, scientific or professional curriculum vitae that is recognized as attesting the capacity to carry out this cycle of studies by the statutorily competent scientific body of the higher education institution to which they wish to be admitted.

Classification System

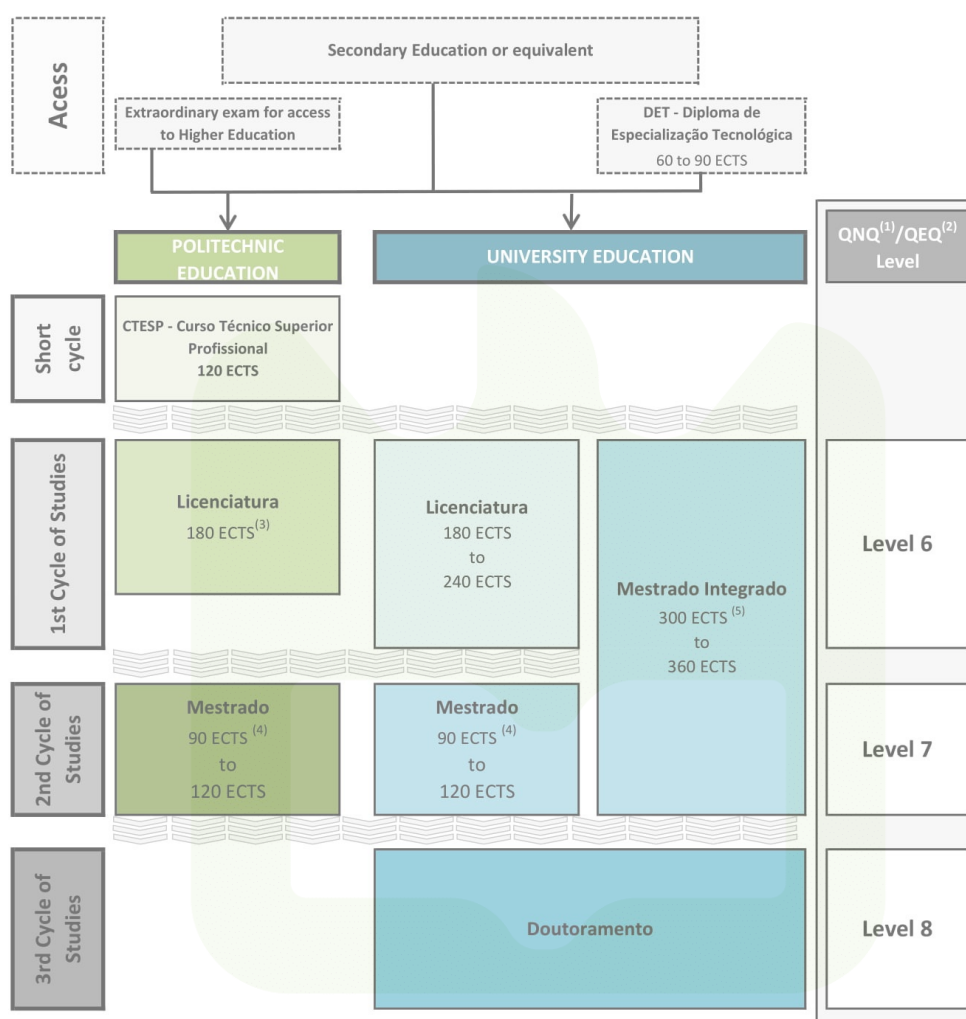
The degrees of licenciado and mestre shall have a final classification between 10 and 20 on a numerical scale of 0 to 20, as well as its equivalent in the European scale of comparability of classifications.

The academic degree of doutor is assigned a final classification pursuant to the regulating standards approved by the university that confers it.





Portuguese Higher Education System



⁽¹⁾ QNQ - National Qualifications Framework.

⁽²⁾ QEQ - European Qualifications Framework.

⁽³⁾ Except when in order to exercise a certain professional activity requiring education and training ranging between 210 and 240 ECTS.

⁽⁴⁾ In exceptional circumstances, a cycle of studies leading to a Mestre degree in a specialized field may have 60 credits, resulting from a stable and consolidated practice in that specific field at international level.

⁽⁵⁾ A Mestre degree may also be awarded following an integrated cycle of studies, for access to a professional activity, if the length: a) is established by European Union regulations; b) results from a regular and consolidated practice within the European Union; in such cases, a Licenciado degree is awarded to students having obtained 180 ECTS (3 years, 6 semesters).