

## 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):

LOBO PEREIRA DE CASTRO

##### 1.2. given name(s):

DANIEL JOSÉ

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

06-05-1997

##### 1.4. student identification number or code:

79456

##### 1.5. identity card number:

15340436

#### 2. information identifying the qualification

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

MESTRADO EM ESTATÍSTICA MÉDICA (2º CICLO), MESTRE

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

Mathematics.

##### 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 degrees of Mestre - Level 7 (EQF).

##### 3.2. official Length of programme:

2 years full-time study.

##### 3.3. access requirement(s):

In accordance with articles 17 and 26 of Decree-Law no. 74/2006, of March 24th, the following persons may apply for admission to studies leading to the degree of Mestre:

- a) Holders of a Licenciatura degree or its legal equivalent;
- b) Holders of a higher degree from another country, which is conferred upon completion of a 1st cycle study programme according to the principles of the Bologna Process in a country which has signed the agreements inherent to the Bologna Process.
- c) Holders of a higher degree from another country which is recognised, by the competent statutory body of the higher education establishment where admission is requested, as having satisfied the objectives of the degree of Licenciatura;
- d) Holders of an academic, scientific or professional curriculum that is recognised, by the competent statutory body of the higher education establishment where admission is requested, as showing capacity for the realisation of this study cycle;

The competent statutory body of the higher education establishment approves the norms of the rules on admission to the study cycle, in particular the specific academic and scientific admission requirements, the application procedures, the selection criteria, the process of setting the number of available places on the course and dissemination thereof as well as the application deadlines.



#### 4. information on the contents and results gained

##### 4.1. mode of study:

Full-time.

##### 4.2. programme requirements:

The Master in Medical Statistics aims to train specialists that deal with the theoretical and practical aspects of planning research and analysis of medical, biomedical, and epidemiological data and develop and apply statistical methodologies necessary for research in Medicine, Pharmacy, Epidemiology, Genetics, and others Health Sciences.

##### Intended learning outcomes

At the end of the course, students will be prepared to: explain development issues and medical / biomedical / epidemiological research; plan experiences to answer questions of medical / epidemiological nature; select and apply statistical techniques to treat, analyze and model the types of data that arise in these areas; using statistical analysis and data processing software and interpreting their results; communicate effectively with professionals in the (bio) medical / epidemiological areas through oral or written presentations on the results of statistical analyzes or exploration of new techniques; working in multidisciplinary teams; update knowledge.

##### 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	
CBM	- Biomedical Sciences
M	- Mathematics
Optional	
CS	- Social Sciences
M	- Mathematics

##### 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:

**16 (Sixteen)** - The ECTS Grading Scale is not applicable due to insufficient cohort from this study cycle to provide sample data.

Concluded in the academic year 2020/2021, on 15-12-2021.

## **5. information on the function of the qualification**

### **5.1. access to further study:**

The qualification allows applying for the degree of Doutor in accordance with section 8.

### **5.2. professional status:**

Not applicable.

## **6. additional information**

### **6.1. additional information:**

Additional Information about the course unit:

Master Thesis / Project / Internship - "AnalyzeR: Aplicação Web em Shiny para análise interativa de dados"


### **6.2. further information sources:**

<https://www.ua.pt/en/curso/445>.

## **7. certification of the supplement**

**7.1. date:** 18 February 2022

**7.2. signature:**



Prof. Doutor Paulo Jorge dos Santos Gonçalves Ferreira

### **7.3. capacity:**

Rector of Universidade de Aveiro.

### **7.4. official stamp or seal:**

All pages of this document are officially stamped.

## **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).





## APPENDIX I

### Detailed list of the course units

#### programme details:

Course units	Y	Ac. Year	Date	Grade	ECTS Gr.	ECTS	obs
41521 - STATISTICAL LABS	1	2019/2020	21-01-2020	14	C	6,0	
41523 - FUNDAMENTALS OF MEDICAL STATISTICS	1	2019/2020	15-01-2020	12	C	6,0	
41525 - FUNDAMENTALS OF EPIDEMIOLOGY AND PUBLIC HEALTH	1	2019/2020	17-01-2020	16	C	6,0	
41526 - FUNDAMENTALS OF BIOMEDICINE	1	2019/2020	13-01-2020	15	C	6,0	
41527 - MULTIVARIATE DATA ANALYSIS	1	2019/2020	09-01-2020	14	C	6,0	
41528 - FURTHER TOPICS IN MEDICAL STATISTICS	1	2019/2020	03-07-2020	15	B	6,0	
41530 - SAMPLING AND EXPERIMENTAL DESIGN	1	2019/2020	25-06-2020	15	B	6,0	
41531 - CLINICAL TRIALS	1	2019/2020	22-06-2020	17	B	6,0	
41532 - BAYESIAN METHODS	1	2019/2020	01-07-2020	15	B	6,0	
47471 - MACHINE LEARNING (49904 - OPTION)	1	2019/2020	29-06-2020	14	C	6,0	
49991 - MASTER THESIS / PROJECT / INTERNSHIP	2	2020/2021	15-12-2021	16	D	42,0	
41520 - SEMINARS ON MEDICAL STATISTICS	2	2020/2021	08-02-2021	17	B	12,0	
41914 - INTRODUCTION TO DATA SCIENCE (49931 - FREE OPTION)	2	2020/2021	15-02-2021	17	B	6,0	

Legend: Y - Curricular Year; ECTS Gr. - ECTS Grade

\* Course units taken under a mobility programme (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 nº 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:

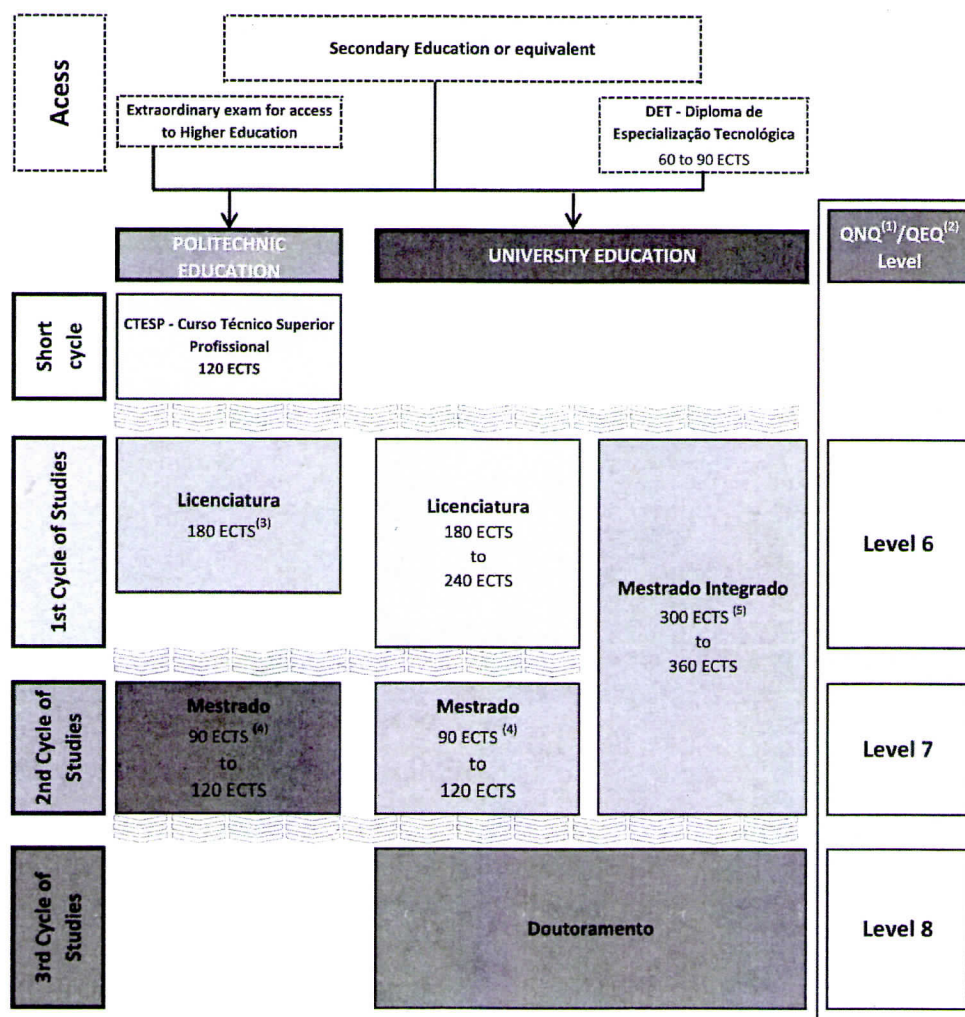
- Holders of the mestre (master) degree or legal equivalent;
- Holders of a licenciado degree who have a particularly relevant academic or scientific curriculum vitae that is recognized as attesting the capacity to carry out this cycle of studies by the statutorily competent scientific body of the higher 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



<sup>(1)</sup> QNQ - National Qualifications Framework.

<sup>(2)</sup> QEQ - European Qualifications Framework.

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

<sup>(4)</sup> 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.

<sup>(5)</sup> 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).

