



# Universidade de Évora

## Edital

Applications for Admission to the Ph.D. Program in  
Mathematics (B-learning)  
Academic year 2023/2024

### 1. The program is promoted by:

Universidade de Évora - Instituto de Investigação e Formação Avançada

### 2. Program Coordination:

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### 3. Program description:

The Doctoral Program in Mathematics presents advanced training in Theoretical and Applied Mathematics, with an emphasis on Algebra and Logic (Number Theory and Cryptography), in Mathematical Analysis (Differential Equations, Calculus of Variations and Optimal Control, Dynamical Systems and Numerical Applications) and in Statistics (Statistics, Operational Research and Probabilities).

In the dissertation, an in-depth study of a part of Mathematics and/or its applications is required in order to overcome the frontiers of mathematical knowledge when solving open problems and/or starting a new theory.

It is intended that doctoral students develop skills and techniques such as: formulating innovative mathematical theorems and concepts, mathematically modelling phenomena in various application contexts, acquiring in-depth and advanced knowledge of Mathematics, using Mathematical software, interpreting and transmitting mathematical results of scientific texts, communicate results of their own research and write scientific articles that can be published in prestigious specialist journals.

### 4. Career opportunities:

Teaching in national and international higher education; scientific research career in national or international centers; senior managers of companies or public institutions in the area of Mathematics applications such as: Banks, Insurance, Consultants, Data Analysis and Statistical Analysis

### 5. Number of registration at DGES:

R/A-Ef 1804/20211/AL02

## 6. Number of accreditation process by A3ES:

ACEF/1920/0313217

## 7. Program Creation Norm:

Diário da República n.º 14 de 20 de janeiro de 2022, Aviso n.º 1293

## 8. General conditions of access and admission:

### i Legal conditions for access to the cycle of studies leading to the «Doutor» degree (Ph.D. degree)

The following individuals can apply for a cycle of studies to the «Doutor» degree (Ph.D. degree):

- holders of a Portuguese Mestre degree (Master degree) or legal equivalent;;
- holders of an undergraduate degree holding a specially relevant academic or scientific curriculum, which is recognized as attesting capacity to carry out this cycle by the competent scientific committee of the higher education institution where they wish to be admitted;
- holders of an academic, scientific or professional curriculum that is recognized as attesting the ability to carry out this cycle of studies by the competent scientific committee of the higher education institution where they wish to be admitted.

## 9. Selection Process:

- Academic qualifications: 40%
  - Training in Mathematics: 50%
  - Area of qualifications: 30%
  - Level of qualifications: 20%
- Curriculum analysis: 40%
  - Scientific publications: 40%
  - Conference Communications: 30%
  - Participation in research projects: 20%
  - Professional Training in the area of the program or related fields: 10%
- Interview: 20%
  - Motivation and commitment: 40%
  - Specific vocational aptitude: 30%
  - Availability: 20%
  - Understanding the objectives and professional exits of the program: 10%

## 10. Maximum number of admissions

- Maximum number of admissions for candidates with nationality of European Union countries: 5
- Maximum number of admissions for candidates without nationality of countries of the European Union: 5

Depending on the number of applications, there may be transfer of vacancies from the international students applications to the European Union students applications or vice-versa.

## 11. Tuition fee

- Candidates with nationality of European Union countries: 1250.00 €
- Candidates without nationality of countries of the European Union: 2500.00 €
  - Annual Tuition fee for international students with merit scholarship: 1250.00 €
  - Annual Tuition fee for international students with cooperation and development scholarship: 1450.00 €

In the admission year, all students with international student status who have a grade C higher or equal to 16 ( $C = 0.6 \times \text{undergraduate average} + 0.4 \times \text{masters average}$ , both averages on the scale 0-20), benefit from the tuition fee for international students with merit scholarship and all students from PALOP countries benefit from the tuition fee for international students with cooperation and development scholarship. In the following years, to keep the merit or cooperation and development scholarship, the student has to meet the conditions stipulated in article 22 of the Academic Regulations of the University of Évora and the results are published until October 31 of each academic year, without the need to apply for the scholarship

## 12. Organization / duration:

- a. **Duration of the program:** 8 semesters
- b. **Number of ECTS to obtain the degree:** 240
- c. **Number of ECTS to obtain the doctorate course (conclusion of the curricular part):**  
60

## 13. Recognition of the course for progression in the teaching career of child educators and teachers in basic and high schools

According to article 54 of the Statute of the Teaching Career and the Ministerial Order no. 344/2008, of April 30th, this Ph.D's degree is recognized by the Ministry of Education for career progression of:  
Grupo de recrutamento 510 (Física e Química) do 3.º ciclo do Ensino Básico e Ensino Secundário

## 14. Language (s) of teaching:

- English
- Portuguese

**15. Learning Type: B-learning**

**16. Schedule Type: Mixed**

**17. Program starting date: September of 2023**

February 13, 2023  
The Rector

Hermínia Vasconcelos Vilar