

**Algebra and Logic**

**Geometry and Topology**

**Mathematical Analysis**

**Numerical Analysis**

**Mathematical Physics**

**Coordinating Committee**

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**Online Applications**

<https://ciencias.ulisboa.pt/en/applications-doctoral-programmes>



**More Information**

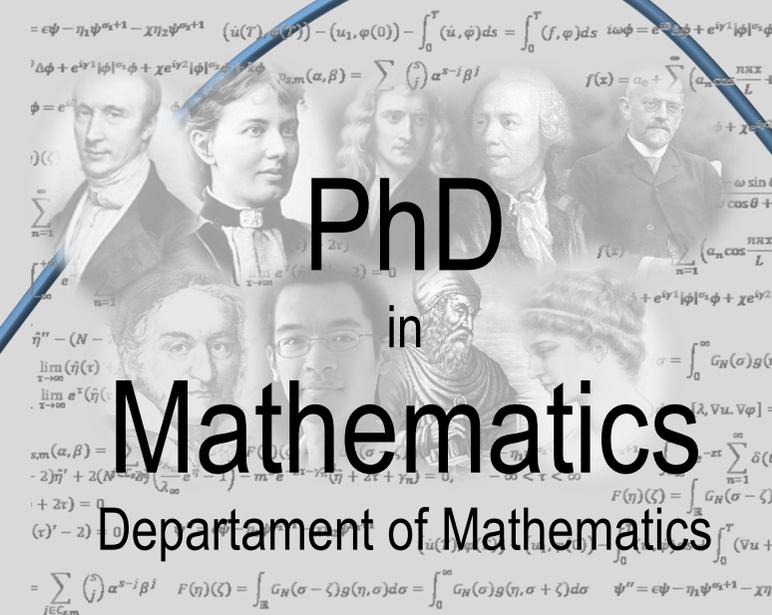
<https://fenix.ciencias.ulisboa.pt/degrees/matematica-564500436615371>

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# PhD in Mathematics

Department of Mathematics

**International reputation**  
**High quality research**  
**Excellent facilities**



**Ciências  
ULisboa**



UNIVERSIDADE  
DE LISBOA

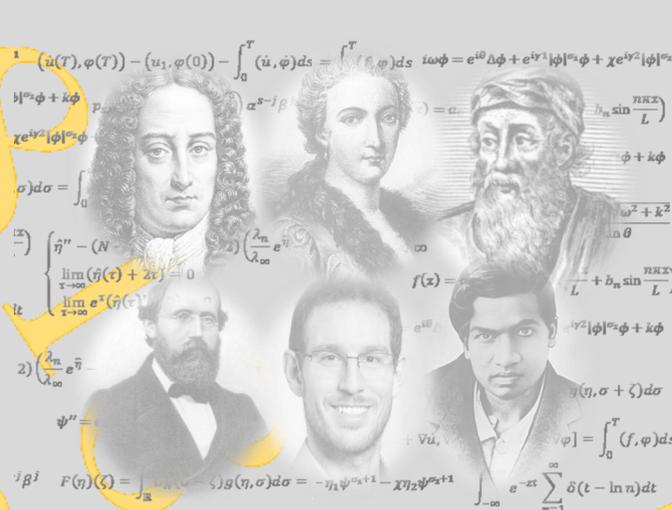
## Objectives

The PhD Program provides training of research skills and prepares the students to become researchers.

To obtain the PhD degree, students must produce original contributions in the field of studies and develop the ability to do independent scientific work.

The Department of Mathematics offers a PhD program (3rd cycle) in Mathematics, which is very flexible and essentially dedicated to the work for the student's Doctorate thesis. The program consists of: a curricular part of one to two semesters, which encompasses: the research project for the thesis and may also include optional graduate courses; three to three and half school years of research work for the preparation and defense of a Doctorate thesis with original results. A particular plan of studies is designed for each PhD student. The scientific diversity of the Math Department is reflected in the range of proposed scientific areas.

Our PhD program in Mathematics has high scientific level and international reputation. The high quality of this PhD program is guaranteed by the DM's staff, with specialists in various areas of Mathematics with research work internationally recognized, and also by the regular collaboration of other researchers of its Research Centers.



## Financing

- PhD fellowships from FCT (Foundation for Science and Technology) <https://www.fct.pt/en/>.
- PhD fellowships and financial support from research centers.
- Teaching assistant positions in the Department of Mathematics.



## Employment

Highly trained mathematicians are qualified for jobs where the capacity to develop a logic, analytical and quantitative thought is important, jobs that require the need to model, represent and quantify phenomena, structures and knowledge. Employment opportunities include:

- Teaching and research institutions (such as universities, polytechnical schools, research centers, laboratories)
- Public services,
- Public and private companies (banks, insurance companies, financial, informatics and engineering consultancies)
- Industry

## Specialties

- Algebra, Logic and Foundations of Mathematics;
- Geometry and Topology;
- Mathematical Analysis;
- Mathematical Physics and Continuous Mechanics;
- Numerical Analysis and Computational Mathematics.

## Structure

This is a four years program, but it is possible to obtain the degree after three years.

In the 1<sup>st</sup> year, the student is required to complete a Research Project and may choose doctoral courses offered by the department, which can vary each year.

In the remaining time, the student should develop original work and write his/her PhD dissertation.

