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Universitat  
de Girona



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Campus Montilivi, Edifici P4  
17003, Girona, Espanya

uB



Université de Bourgogne  
Centre Universitaire Condorcet, Le2i  
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720, Avenue de l'Europe  
71200, Le Creusot, France



Università degli studi di Cassino e del Lazio Meridionale  
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<http://www.unicas.it>  
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03043, Cassino, Italia

# MAIA

## ERASMUS MUNDUS

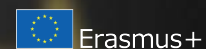
### JOINT MASTER IN MEDICAL IMAGING AND APPLICATIONS



[www.maiamaster.org](http://www.maiamaster.org)



An international programme by the University of Girona (Spain), the University of Bourgogne (France)  
and the University of Cassino (Italy) funded by Erasmus + Programme.



## OVERVIEW OF THE MASTER COURSE

The MAIA (Medical Imaging and Applications) master is a 2 years' joint master degree (120 ECTS) coordinated by the Universitat de Girona (UdG, Spain) and with the Université de Bourgogne (uB, France) and the Università degli studi di Cassino e del Lazio Meridionale (UNICLAM, Italy) as partners.

## WHY JOINING MAIA?

**Medical Image Analysis and Computer Aided Diagnosis** (CAD) systems, in close development with novel imaging techniques, have revolutionised healthcare in recent years. Those developments have allowed doctors to achieve a much more accurate diagnosis, at an early stage, of the most important diseases. Technology behind the development of CAD systems stems from various research areas in **computer science** such as: artificial intelligence, machine learning, pattern recognition, computer vision, image processing and sensors and acquisition. **There is a clear lack of MSc studies** which cover the previously mentioned areas with a specific application to the analysis of medical images and development of CAD systems within an integrated medical imaging background. Moreover, the medical technology industry has detected a growing need of expert graduates in this field. Join MAIA to be part of this revolution and impact your career!

## COURSE STRUCTURE

Year 1	
uB (first semester)	UNICLAM (second semester)
Physics for Imaging and Therapy Image Processing I Digital Signal Processing Software Engineering Mathematics for Medical Imaging French Culture	Pattern Recognition Introduction to Robotics Parallel Computing Distributed Programming Advanced Image Analysis Italian Culture
Year 2	
UdG (third semester)	Research / Training (fourth semester)
Medical Image Registration and Applications Medical Image Segmentation and Applications Computer Aided Surgery and Medical Robotics Computer Aided Diagnosis eHealth Local Culture	MSC Thesis in a company or any of the partners institutions UdG, uB or UNICLAM



### ERASMUS +

**Erasmus Mundus Joint Master Degrees (EMJMDs)** build on the success of Erasmus Mundus Masters Courses (EMMCs) and aim to:



Foster excellence, innovation, and internationalisation in Higher Education Institutions



Boost the attractiveness of the European Higher Education Area (EHEA) and support the EU's external action in the field of higher education



Improve the level of competences and skills of Master graduates, and their employability

Details about the Erasmus + programme can be found at:  
[https://eacea.ec.europa.eu/erasmus-plus/jointmasterdegrees\\_en](https://eacea.ec.europa.eu/erasmus-plus/jointmasterdegrees_en)



## TUITION FEES



Programme Countries  
EU

Partner Countries  
Non EU

**Tuition Fees**  
(total course 2 years)

**9,000 €**

**11,000 €**

## SCHOLARSHIPS

**Erasmus+ Grants**  
(total course 2 years)

**35,000 €\***

**42,000 €\***

\*This amount will vary depending on the country of origin of the student.



**Erasmus + provides scholarships covering fees and other expenses.**

*Other grants are available to cover tuition fees and/or mobility.*

## APPLICATION PROCEDURE

### Students

The documentation required is as follows:

- Letter of application outlining rationale for wanting to undertake the programme.
- Curriculum vitae.
- Certified copy of the University Bachelor Degree or equivalent with records transcript (English translation).
- Proof of level of competency in English.
- 2 names of referees and their addresses, preferably from the University or Institute that awarded the first degree, whom will be contacted by the consortium and will submit an evaluation form and a letter of recommendation.
- Administrative papers: a copy of a valid ID document and/or passport.
- 1 current passport-size photograph.

### Visiting scholars:

- Visit [www.maiamaster.org](http://www.maiamaster.org) for more information.

## ADMISSION CRITERIA

Outstanding achievement in the applicant's first degree which must have an University Bachelor Degree in either electrical engineering, electronics, computer science, mathematics, robotics, physics and industrial engineering.  
Language ability: the course is taught in English and candidates must meet the required standards: TOEFL: 550 (Computer: 213) or IELTS: 6.5 (check the equivalency table).  
Student motivation to undertake the Masters and relevance to his or her professional development.

