

GENERAL INFORMATION

TYPE: Erasmus Mundus Joint Master

DELIVERING INSTITUTIONS:
Universities of Rome “Tor Vergata”,
Belgrade, Bremen, and Côte d’Azur

LOCATIONS: Italy, France, Germany, Serbia

TITLE: Astrophysics and Space Science

DURATION: 2 years, full-time

CREDITS: 120 ECTS

LANGUAGE: English

OPEN TO: Highly motivated and skilled
international students.

CALL FOR APPLICATIONS: To be issued
on October 25th, 2024 with application
deadline on February 14th, 2025.

COURSE START: The 4th Edition will start
in September 2025

INFO AND CONTACTS



WWW.MASTER-MASS.EU



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ERASMUS MUNDUS JOINT MASTER PROGRAM



MASTER IN ASTROPHYSICS
AND SPACE SCIENCE

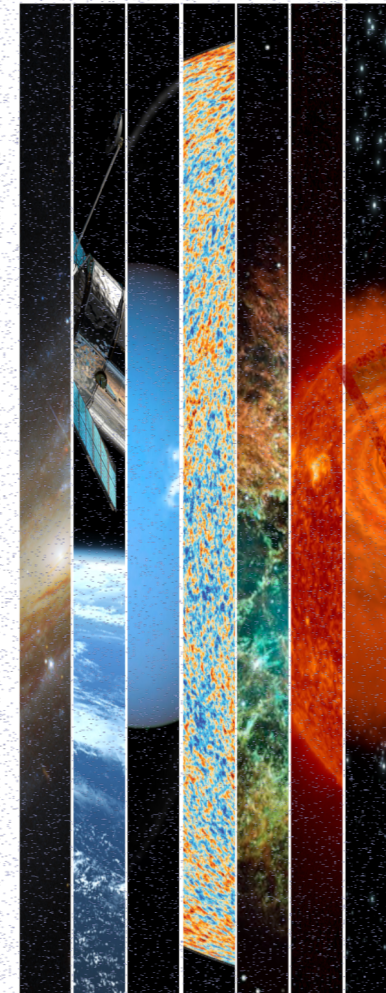


Image Credits: from left: ESA/Hubble & NASA, A. Sethi; CC BY 4.0 - ESA - ESA/Hubble & NASA, L. Lamy / Observatoire de Paris - ESA and the Planck Collaboration - NASA/ESA/J. Hester and A. Loll (Arizona State Univ.) - NASA/ESA/J. Hester and A. Loll (Arizona State Univ.) - ESA - C. Carreau



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SCHOLARSHIPS

A number of Erasmus Mundus Joint Master (EMJM) scholarships are funded by the European Union in the framework of the 2021 – 2027 Erasmus+ programme. Not more than 10% of the available scholarships can be awarded to students with the same nationality, except for the case of nationals of targeted regions of the world, for which some additional scholarships are available. An EMJM scholarship covers:

- ✓ the participation costs and tuition fees;
- ✓ a comprehensive insurance package for the entire period of participation in the programme;
- ✓ a monthly allowance of 1,400 € paid directly to the student for the whole duration of the participation in the Master course (up to a maximum of 24 months). This is intended to cover travel and subsistence costs.

Admitted students beyond the number of available scholarships may seek and apply for other scholarships that might be funded, e.g., by their own Country and/or Institution of origin or by other organizations.



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European Union

WHAT IS MASS?

MASS is a 2-years Erasmus Mundus Joint Master (EMJM) course in Astrophysics and Space Science. It is funded by the Erasmus+ program of the European Union and is jointly delivered by a Consortium of four Universities (Rome “Tor Vergata”, Belgrade, Bremen, Côte d’Azur). A number of Third Parties, including public research institutions, National Space Agencies, small and medium enterprises and space industries contribute actively to the program. Because of this, MASS is an intersectoral, research-oriented Master program, covering state-of-the-art knowledge and research in six main pillars:

- ✓ Gravitation and Cosmology
- ✓ Stellar Astrophysics
- ✓ Exoplanets
- ✓ Astrophysical Techniques
- ✓ Astrostatistics and Big Data
- ✓ Space Science

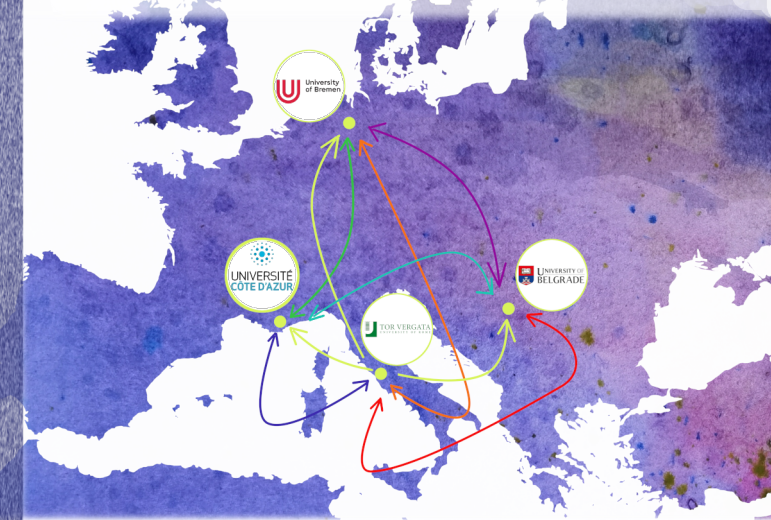
MASS is a full-time program open to top-ranked students of any nationality. Its official language is English, with the possibility for students to learn the languages of the host countries. It leads to either a Joint or a Multiple Master of Science Degree in Astrophysics and Space Science. The degree will be complemented by a Diploma Supplement to facilitate the degree recognition in other countries.

The goal of the program is to provide students with knowledge and skills tuned to continue their career in PhD programs, but also desirable to the private sector.

MASS will offer its students a number of academic paths to help them to choose how to move among the four Consortium Universities depending on the chosen field of specialization. The Master course includes Winter/Summer Schools and an internship with the contribution of MASS Third Parties. In the end, MASS students will be exposed to the theoretical aspects of modern astrophysics, to the knowledge/use of observational facilities and/or to the data reduction and science exploitation of big data sets coming from current / forthcoming ground-based or space-borne experiments.

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MOBILITY SCHEMES



Students can build their mobility scheme across the 4 Consortium Universities in the respect of a few constraints and subject to approval by the MASS Teaching Committee. Students will express their choice for the 2nd semester during the 1st semester, by November 15th. At mid-term during the 2nd semester, they will express their choices for the 3rd and 4th semester.

Mobility scheme constraints:

- ✓ The 1st semester can only take place at the University of Rome “Tor Vergata”;
- ✓ The 2nd semester cannot take place in Rome. Students must choose one of the other 3 Partner Universities.
- ✓ The 3rd semester can take place in any of the 4 Consortium Universities.

Students must spend a semester in each of at least 2 countries that differ from their country of residence at enrolment stage and at least one of which is an EU Member State or a third country associated with the Erasmus+ Programme;

In each mobility period (semester), students must earn at least 30 ECTS credits.

- ✓ The 4th semester is devoted to the Master thesis, that is offered jointly by the Universities where the student spends the 3rd and 4th semester. If a student spends both semesters at the same location, there must be an additional supervisor from another Consortium University.

VISIT THE MASS WEBSITE FOR DETAILS ABOUT THE
COURSE OFFER.