



PROFESSIONAL MASTER PROGRAMME SHEET - 2026-2027 A.Y.

<b>Title</b>	SPICES - Space Missions Science, Design and Applications
<b>Code</b>	5935
<b>Level</b>	2nd level Professional master programme
<b>Director</b>	Prof. Andrea Cimatti
<b>Registration fee for selection and enrolment fee</b>	<p>Registration fee for selection: € 60.00</p> <p><b>non-refundable contribution for administrative services (Article 1 of the call for applications).</b></p> <p>Enrolment fee: Total contribution: 4.400 euro</p> <ul style="list-style-type: none"> <li>• first instalment 2.200 euro to be paid by December 1<sup>st</sup> 2026;</li> <li>• second instalment 2.200 euro to be paid by March 31<sup>st</sup> 2027</li> </ul>
<b>Subject area</b>	Science and technology
<b>Professional master programme description: objectives/targets</b>	<p>Pursuant to Decree no. 270 of 22 October 2004 of the Italian Ministry of Education, University and Research, for the academic year 2026-2027, Alma Mater Studiorum – Università di Bologna, with Bologna as the administrative seat, will run a 2nd level professional master programme in “Space Missions Science, Design and Applications”.</p> <p>The Professional Master’s Programme has been set up on the proposal of the Department of Physics and Astronomy (DIFA) and in cooperation with Fondazione Alma Mater.</p> <p>The Master’s programme aims to train highly qualified candidates by providing them with the skills necessary to successfully enter the job market, both nationally and internationally, through an innovative advanced-training curriculum that develops multidisciplinary expertise in the field of space missions and satellite data analysis, in both scientific and applied contexts.</p>
<b>Titles required for admission</b>	<p>The programme is reserved for candidates who, by the time of enrolment December 1st 2026, are in possession of the following qualifications and access requirements:</p> <p>- Single cycle degree obtained under D.M. 270/04 or second cycle degree obtained under the laws previously in force (DM 509/99 and Old Regulations) in the following fields or classes: Biology LM-6, Physics LM-17, Computer Science LM-18, Aerospace and Aeronautical Engineering LM-20, Biomedical Engineering LM-21, Civil Engineering LM-23, Telecommunication Engineering LM-27, Electronic Engineering LM-29, Management Engineering LM-31, Computer engineering LM-32, Mechanical engineering LM-33, Environmental and land engineering LM-35, Mathematics LM-40, Mathematical-physical modeling for</p>



	<p>engineering LM-44, Materials science and engineering LM-53, Chemical Sciences LM-54, Universe Sciences LM-58, Nature Sciences LM-60, Agricultural Sciences and Technologies LM-69, Industrial Chemistry LM-71, Forestry and Environmental Sciences and Technologies LM-73, Sciences and geological technologies LM-74, Sciences and technologies for the environment and the territory LM-75, Geophysical Sciences LM-79, Geographical Sciences LM-80, Statistical Sciences LM-82;;</p> <p>- Single cycle degree obtained abroad deemed equivalent to those described in point above by the admission committee, for the purposes of admission to the Master.</p> <p>- Other single cycle master's degrees may be considered according to the candidate's specific curriculum and skills</p>
<b>Additional compulsory requirements</b>	n/a
<b>Course structure</b>	<p>Course units, subject groups and ECTS</p> <p>Cosmology and fundamental astrophysics – PHYS-05/A – 2 ECTS</p> <p>High-energy astrophysics and astroparticle physics – PHYS-05/A – 2 ECTS</p> <p>Planetology and astrobiology – PHYS-05/A – 2 ECTS</p> <p>Fundamental physics of the solid earth – GEOS-04/A– 2 ECTS</p> <p>Fundamental physics of the fluid earth – PHYS-05/B– 1 ECTS</p> <p>Space missions 1 and 2 – IIND-01/E– 6 ECTS</p> <p>Space telescopes and radiation detectors – PHYS-05/A – 1 ECTS</p> <p>Space data transmission – IINF-03/A – 1 ECTS</p> <p>Human flight and space medicine – BIOS-06/A – 1 ECTS</p> <p>Management of space missions – PHYS-05/A – 1 ECTS</p> <p>Analysis of astrophysical data – PHYS-05/A – 2 ECTS</p> <p>Detectors for astroparticles and data analysis – PHYS-01/A – 1 ECTS</p> <p>Earth observation techniques and data analysis – CEAR-04/A – 4 ECTS</p> <p>Applications of geospatial information – STAT-01/A – 2 ECTS</p> <p>Satellite monitoring of the climate and ocean systems – PHYS-05/B – 2 ECTS</p> <p>Image processing and data analysis – IINF-05/A – 4 ECTS</p> <p>Seminars with companies and research institution - 2 ECTS</p>
<b>Administrative office</b>	Bologna
<b>Place of teaching</b>	Bologna



<b>Language</b>	English
<b>Duration</b>	Annual
<b>ECTS credits</b>	60
<b>Compulsory attendance</b>	75%
<b>Teaching delivery methods</b>	Blended-mode teaching - More details on the Master's website <a href="https://master.unibo.it/spices/en/programme">https://master.unibo.it/spices/en/programme</a>  For further information please contact the Administration Office <a href="mailto:b.cortesi@fondazionealmamater.it">b.cortesi@fondazionealmamater.it</a>
<b>Available places</b>	Minimum number 9 - maximum number 30
<b>Application deadline (to register for selection)</b>	November 3 <sup>rd</sup> 2026 at 11.59 PM
<b>Selection date</b>	November 10 <sup>th</sup> - Motivational interview, in remote
<b>Selection method</b>	Based on candidates' qualification and motivational interview  The maximum score given by the Admission Board is 100 points, of which the breakdown is as follows: 40 points allocated for the assessment of the candidates' qualifications and the remaining 60 points allocated for the assessment of motivational interview.  During the interview, knowledge of the English language will be ascertained by requesting the reading of a passage and its translation. In addition, the candidate will be asked on questions about the proposed English text.  The minimum score of 60/100 must be achieved to pass the selection.  In the event of a tie preference will be given to the candidate with the highest score in the motivational interview will rank higher. In the event of further tie preference will be given to the younger candidate.
<b>Date of ranking list Publication and opening of enrolments</b>	November 20 <sup>th</sup> 2026  The rankings can be consulted on <a href="#">Studenti Online</a> by entering your username and password
<b>Enrolment period</b>	From November 20 <sup>th</sup> to December 1 <sup>st</sup> 2026 at 11:59 PM
<b>Students with a civil disability certificate of 66% or higher or</b>	no. 1 place envisaged even if they exceed the maximum number, provided they are eligible for selection, with exemption from payment of registration



<p><b>a certificate pursuant to Law 104/92</b></p>	<p>fees, net of fixed charges and the registration fee for selection. [ex Article no. 1 of the Single Call for Applications].</p> <p>For detailed information on the application and matriculation procedure, please refer to the single call for applications, art. 9.</p> <p>These places do not count towards the minimum number and are optional, at the discretion of the Director.</p>
<p><b>Professional staff and CEL staff of the University of Bologna (only for part-time professional master programmes)</b></p>	<p>No. 2 reserved places, also in addition to the maximum number</p> <p>For details on how to apply, please refer to the single call for applications, art. 9.</p> <p>These places do not count towards the minimum number.</p>
<p><b>Alumni Association members</b></p>	<p>There is 1 reserved place, even in addition to the maximum number.</p> <p>For details on how to apply, please refer to the single call for applications, art. 9</p>
<p><b>Auditors</b></p>	<p>Participation is open to auditors, up to 20% of enrolled students, in accordance with Art. 8 of the Call for Applications.</p> <p>Interested persons must indicate their willingness directly to the Professional Master's Programme secretariat by the registration deadline. Acceptance of the request will be notified by December 10<sup>th</sup> 2026</p> <p>The attendance fee for auditors is € 2.200 (to be paid in a single instalment upon registration).</p> <p>For information on the auditor status, please refer to art. 10 of the single call for applications.</p>
<p><b>Implementing procedures:</b></p> <ul style="list-style-type: none"> <li>• <b>Internship/project work</b></li> <li>• <b>Final examination</b></li> </ul>	<p>SPICES Internship provide 600 hours internship, that can be extended to 720, equivalent to 24 CFU, with research institutes, space agencies, and private companies active in the space sector. The Internship can be replaced with a Project work in agreement with the Master's Director.</p> <p>The final examination consists of a 15-minute PowerPoint presentation, delivered by each candidate, on the internship/project work report, followed by some in-depth questions from the committee.</p> <p>For information, please contact the professional master programme Administration Office (<a href="mailto:b.cortesi@fondazionealmamater.it">b.cortesi@fondazionealmamater.it</a>)</p>



<b>Start of lessons and information on the calendar of learning activities</b>	<p>The SPICES Master's program will start on Friday, January 8<sup>th</sup>, 2027.</p> <p>The program will follow a weekend schedule, with classes held on Fridays (full day) and Saturdays (half day). Additionally, there will be one Thursday per month with classes for the entire day.</p> <p>Link to the website: <a href="https://master.unibo.it/spices/en">https://master.unibo.it/spices/en</a></p>
<b>More information</b>	<p>The documents required for the selection process are listed in the operating instructions and must be submitted together with the documents listed below:</p> <ul style="list-style-type: none"><li>a) Curriculum Vitae;</li><li>b) Titles Sheet (available at the bottom of the Course webpage in the 2026-2027 UniBO Professional Master's Programmes portal);</li><li>c) Proficiency certificate attesting the level of knowledge of the English language or, in the vacancy of official proficiency, self-certification of the level achieved is required.</li></ul> <p>Thanks to the partnership with ASI (Italian Space Agency) 3 scholarships are available for the total reduction of the registration fee, intended for people enrolled in the Master's program and found to be most deserving, based on the selection ranking list.</p> <p>The Master's Director, in the presence of further grants (fundraising activities), may decide to provide total or partial reductions in tuition fees, assigned according to the order of the selection ranking.</p> <p>For updated details on available scholarships and payment methods, please refer to the "ADMISSION" section on the Master's website.</p> <p><a href="https://master.unibo.it/spices/en/admission">https://master.unibo.it/spices/en/admission</a></p>
<b>For administrative information</b>	<p>Contact the Ufficio Master at <a href="mailto:master@unibo.it">master@unibo.it</a></p> <p><b>Virtual help desk</b> Mondays and Fridays from 9.00 am. to 11.30 am</p>
<b>For scientific and teaching information</b>	<p>For scientific and teaching information (teaching programme, classes timetable, exams, internships or project works etc.) please contact Bruno Cortesi – <a href="mailto:b.cortesi@fondazionealmamater.it">b.cortesi@fondazionealmamater.it</a> – 051 2080621.</p>