CALL FOR ADMISSIONS A.Y. 2022/23

Master’s Degree or second-cycle degree

MATHEMATICAL ENGINEERING

Curriculum “Mathematical Modelling for Engineering and Science”
Selection for candidates with qualification attained in Italy

Curriculum “Financial Engineering”
Selection of EU citizens or non-EU citizens residing in Italy with qualification attained in Italy or abroad

N.B.: this document is the English translation of the admission notice for the course in Mathematical Engineering.

The admission notice in Italian is available at www.unipd.it/ammissioni-ing-mathematical.

If there is any dispute regarding the interpretation of the two versions, the Italian version shall take precedence.
NOTE: The index is clickable and refers to the paragraphs in the text to make navigation easier. However, we recommend paying attention to the information contained in the entire admission notice.

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1. GENERAL INFORMATION

Prospective students can now apply for admission in the academic year 2022-2023\(^1\) to the Master's degree (or second-cycle degree) in Mathematical Engineering taught in English at the Scuola di Ingegneria. Courses normally run for 2 years and envisage the acquisition of 120 university credits (CFUs) and at the end of the course a Master's degree is awarded in Mathematical Engineering. The general information on the course which is split into 2 curricula - “Mathematical Modelling for Engineering and Science” and “Financial Engineering” - is available at: www.unipd.it/en/mathematical-engineering

The latter entails spending the whole of the second year of the course abroad (France - Paris). For information on the content and organisation of the course: didattica@dicea.unipd.it

Information on ongoing teaching and course Regulations can be found at didattica.unipd.it, by selecting “Scuola di Ingegneria” and the Degree Course of interest.

1.1 Curricula, venue and places available

The course is organised into two curricula:

- Mathematical Modelling for Engineering and Science - unlimited places and admission requirements
- Financial Engineering - limited access

In this selection process\(^2\), the following registrations are open:

<table>
<thead>
<tr>
<th>Graduation Class</th>
<th>Master's degree (or second-cycle degree) in Mathematical Engineering</th>
<th>Venue</th>
<th>Places for EU* citizens and non-EU citizens legally residing in Italy</th>
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<tr>
<td>LM-9</td>
<td><strong>Curriculum Mathematical Modelling for Engineering and Science</strong></td>
<td>Padua</td>
<td>unlimited places with admission requirements</td>
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<td>LM-9</td>
<td><strong>Curriculum Financial Engineering</strong></td>
<td>Padua</td>
<td>9 places - with qualification attained in Italy or abroad</td>
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</tbody>
</table>

* of the European Union

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\(^1\) Running the first year of Degree Courses is subject to their accreditation according to the provisions of Ministerial Decree 1154/2021 "Self-assessment, assessment, initial and periodic accreditation of venues and courses of study” and to the achievement of a minimum number of pre-enrolments; therefore, if the Course is not accredited or if the number of pre-enrolment applications submitted is less than 15 (5 for each curriculum), the Course will not run. All the information relating to the running of the course is published at www.unipd.it.

\(^2\) The course opened a previous spring selection process, with information at www.unipd.it/en/mathematical-engineering and www.unipd.it/avvisi-ammissione-lauree-magistrali-inglese. The total number of scheduled places for entry to the course: for the “Mathematical Modelling for Engineering and Science” curriculum, 12 places for non-EU citizens residing abroad (of which 1 reserved for citizens on the “Marco Polo” programme), already put up for competition in the previous spring selection process; for the “Financial Engineering” curriculum, 9 places for EU citizens and non-EU citizens legally residing in Italy and 3 places for non-EU citizens residing abroad, already put up for competition in the previous spring selection process.
1.2 Admission requirements
To be admitted, candidates\(^3\) must:

1. have obtained a Bachelor’s degree, a Single-cycle Master’s degree, a three-year university diploma or another qualification obtained in Italy and recognised as eligible under current legislation (www.unipd.it/iscrizioni-studenti-internazionali), by 11 October 2022 or during the year (solely for the “Mathematical Modelling for Engineering and Science” curriculum), by 31 December 2022;

2. be in possession of the specific minimum curricular requirements and knowledge, competences and abilities, as indicated in the data sheet attached to this notice. Prospective students are advised to read the full description in the Syllabus of the chosen Course, available in Art. 2, paragraph 1, of the relevant Course Regulations.

3. pre-enrol by the indicated deadlines (point 2);

4. submit an application for the assessment of the minimum curricular requirements by the indicated deadlines (point 3);

5. to be suitably placed in the ranking, solely with regard to the “Financial Engineering” curriculum;

6. enrol, submit an application for a change of course or incoming transfer from 19 July (or from the date of publication of the ranking point 4 ) by 12:00 noon on 28 October 2022 (point 5.1). Solely with regard to the “Mathematical Modelling for Engineering and Science” curriculum, for candidates who graduate by 31 December 2022, an additional enrolment window is scheduled during the year from 12:00 noon on 28 October 2022 until 12:00 noon on 31 January 2023 (point 5.2).

1.3 Registering for part-time
Students can apply to register on a part-time basis due to family, work or health reasons. Further information is available at www.unipd.it/contribuzione-benefici.

1.4 Inclusion and disability
Students with disabilities or specific learning disorders (SLDs) can contact the Student Services Office – Inclusion Department (inclusione.studenti@unipd.it) to report any need for information on course attendance support services and financial subsidies (www.unipd.it/risorse-supporti-studenti-disabilita-dificolta-apprendimento).

\(^3\) From now on, terms relating to people are in the masculine form, for the sole purpose of ensuring better readability of the text, but refer indiscriminately to all genders.
2. REGISTRATION AND PRE-ENROLMENT ON THE UNIWEB PORTAL

2.1 Registration on the Uniweb portal
If you are logging into Uniweb for the first time, you must create a new user account at www.uniweb.unipd.it by clicking Menu → Registration.
At the end of the registration process, you will receive an email with your username and activation code to log in to uniweb.unipd.it/password/index.php/it/utenti/identifica/azione/a, where you will be asked to set up three security questions and a password. With your username obtained and password set, you can log in to your private area.
In the event of problems with logging in, contact the University Call Centre (www.unipd.it/callcentre).

N.B.: The personal email address included in your Uniweb profile is the communication channel via which any deadlines and instructions for accessing the course are provided. Emails sent for this purpose count as an official communication.

2.2 Submitting an application for pre-enrolment
To pre-enrol, you must:
1. log in with your credentials at www.uniweb.unipd.it, (point 2.2), click on Home → Pre-enrolment for unlimited access → Type of degree programme 'Second-cycle degree' and indicate the course you are interested in (point 1.1).
2. enter the degree qualification to be used as your admission requirement to the course, if not already on the system.
   Students enrolled at the University of Padua who are about to graduate can only complete the pre-enrolment after submitting their application for the degree award online.
3. at the same time, pay the pre-enrolment fee of 30.00 euro via the PagoPA procedure (instructions on www.unipd.it/pago-pa).

2.3 Deadlines – candidates graduating by 11 October 2022
In order to be able to submit the application for enrolment, change of course or incoming transfer by 28 October 2022, the application for pre-enrolment must be completed online, through the Uniweb portal, as indicated in point 2.2

   from 12:00 noon on 18 July until 12:00 noon on 30 September 2022.

2.4 Deadlines – Pre-enrolment during the year solely for the “Mathematical Modelling for Engineering and Science” curriculum
In order to be able to submit the application for enrolment during the year by 31 January 2023 (point 5.2), there will be, solely for the “Mathematical Modelling for Engineering and Science” curriculum, an additional time window for pre-enrolment online from 12:00 noon on 3 November 2022 until 12:00 noon on 20 January 2023 (point 2.2).
N.B.: candidates graduating after 11 October 2022 or candidates who use this time window for pre-enrolment during the year will only be able to gain entry to the courses through standard enrolment (course change and incoming transfer procedures are only available until 12:00 noon on 28 October 2022).

Contacts and assistance: www.unipd.it/immatricolazioni and www.unipd.it/callcentre

3. ASSESSING THE MINIMUM CURRICULAR REQUIREMENTS

To be admitted to your chosen course, you need to be in possession of the specific minimum curricular requirements and knowledge, competences and abilities, verified as indicated for each course (appendix 1).

3.1 Procedure and deadlines – candidates graduating by 11 October 2022

The procedures for submitting an application for the assessment of the minimum curricular requirements online and for any special cases will be announced from 18 July 2022 at www.unipd.it/ammissioni-ing-mathematical.

In order to be able to take advantage of the first window for enrolment (point 5.1), applications for the assessment of the minimum curricular requirements must be submitted and confirmed:

from 12:00 noon on 18 July until 12:00 noon on 11 October 2022.

The application can be done online after having completed pre-enrolment by the planned deadline of 30 September 2022 (point 2).

Eligibility for enrolment can only be attributed after updating, on the Uniweb portal, the grade and the date of being awarded the degree used to gain entry to the course. For students graduating at the University of Padua, this information will be updated automatically in the days following their degree award.

Contacts and assistance: www.unipd.it/backoffice-carriere-studenti -ingegneria.studenti@unipd.it

3.2 Procedure and deadlines – Assessment of the minimum curricular requirements during the year solely for the “Mathematical Modelling for Engineering and Science” curriculum

The procedures for submitting an application for the assessment of the minimum curricular requirements online and for any special cases will be announced from 18 July 2022 at www.unipd.it/ammissioni-ing-mathematical.
In order to be able to submit the application for enrolment during the year by 31 January 2023 (point 5.2), there will be an additional time window, solely for the “Mathematical Modelling for Engineering and Science” curriculum, for submitting and confirming the application for the assessment of minimum curricular requirements from 12:00 noon on 11 October 2022 until 12:00 noon on 20 January 2023.

N.B.: the course change and incoming transfer procedures are not available for candidates submitting their application for the assessment of the minimum curricular requirements using this time window.

The application for the assessment of the minimum curricular requirements during the year is available online after completing pre-enrolment in one of the 2 available time windows (point 2). Eligibility for enrolment can only be attributed after registering the entry qualification data in the Uniweb reserved area. These details will be registered automatically for graduates from the University of Padua, whereas graduates from other universities will need to fill in the details manually in the section Home → Qualifications.

Contacts and assistance:
www.unipd.it/backoffice-carriere-studenti - ingegneria.studenti@unipd.it

4. ADMISSION RANKING (“Financial Engineering” curriculum)
If the number of candidates with “admitted” status exceeds the number of available places for the “Financial Engineering” curriculum, on 19 October 2022 a merit ranking will be drawn up and published at www.unipd.it/ammissioni-ing-mathematical and www.unipd.it/en/admission-results, formulated on the basis of the following criteria:
- degree graduation grade;
- time taken to graduate, measured in months;
- number of credits with commendation;
- number of exams with a grade of 30/30.

5. ENROLMENT, CHANGE OF COURSE, TRANSFER FROM ANOTHER UNIVERSITY
5.1 Procedure and deadlines – candidates graduating by 11 October 2022
In order to enrol, change course or transfer from another University for all the courses in this notice, candidates must:
• have submitted an application for pre-enrolment (point 2) by 30 September 2022;
• have checked the registration of the entry qualification data in the Uniweb reserved area. These details will be registered automatically for graduates from the University of Padua, whereas graduates from other universities will need to fill in the details manually in the section Home → Qualifications;
• have submitted an application for the assessment of minimum curricular requirements by 11 October 2022 (point 3) and have obtained the outcome “eligible” (visible within pre-enrolment in each user’s reserved area in Uniweb);
• solely with regard to the “Financial Engineering” curriculum: to be admitted in the ranking list.

The application to enrol, change course or transfer from another university can be submitted from 12:00 noon on 18 July until 12:00 noon on 28 October 2022.

The registration procedure is:
**Enrolment:** log in at www.uniweb.unipd.it and click on Home → Standard Enrolment year 1 → Type of degree programme ‘Second-cycle degree’ and indicate the course you are interested in;
**Change of course** (available from 1 September until 12 noon on 28 October 2022):
follow the instructions published on www.unipd.it/cambi-corso-ordinamento;
**Transfer from another University** (available until 12:00 noon on 28 October 2022):
follow the instructions published on www.unipd.it/trasferirsi-altro-ateneo;
**Simultaneous enrolment on multiple courses – request for incompatibility:**
follow the instructions given at: www.unipd.it/node/78294
Further information on registration/enrolment procedures for the courses and other cases can be found in the following document: www.unipd.it/node/85793

If additional places remain available for entry to the “Financial Engineering” curriculum after the place assignments concluded on 28/10/2022, candidates with the “admitted” status in the ranking will be informed of any further searches via email and will receive the necessary enrolment instructions, including the deadlines to be respected in order to accept the place obtained in the course (it should be noted that the procedures to change course and transfer from another university will only be available until 28 October 2022).

Assignments will follow this procedure until 31 January 2023. Should the available places be filled before that date, information will be published at www.unipd.it/ammissioni-ing-mathematical and with it enrolments for the academic year 2022/23 will be considered definitively closed.

**N.B.:** failing to comply with the deadlines and the terms of the indicated procedures and failing to pay the first instalment at the same time is equivalent to waiving admission to the chosen Master’s degree.

Registration procedures for the course will only be considered final once formalities have been completed by the Student Career Office - Enrolment Sector.

**Contacts and assistance:** www.unipd.it/immatricolazioni and www.unipd.it/callcentre

### 5.2 Procedure and deadlines – Enrolment during the year solely for the “Mathematical Modelling for Engineering and Science” curriculum

In order to be able to enrol in the “Mathematical Modelling for Engineering and Science” curriculum, candidates must:
• have submitted an application for pre-enrolment (point 2) by 30 September 2022 OR in the additional pre-enrolment period by 20 January 2023;
• have checked the registration of the entry qualification data in the Uniweb reserved area. These details will be registered automatically for students already enrolled at the University of Padua, whereas graduates from other universities will need to fill in these details manually. The qualification must have been awarded by 31 December 2022;
• have submitted an application for the assessment of the minimum curricular requirements by 20 January 2023 (point 3) and have obtained the outcome “eligible” (visible within pre-enrolment in each user’s reserved area in Uniweb).

In the enrolment period during the year, candidates can only submit an application for enrolment (they cannot submit applications to change course or transfer from another university):

from 12:00 noon on 28 October 2022 until 12:00 noon on 31 January 2023.

In order to submit an application for enrolment online, log in at www.uniweb.unipd.it and click on Home → Enrolment → Type of degree programme ‘Second-cycle degree’ and indicate the course they are interested in;
Further information on registration/enrolment procedures for the courses and other cases can be found in the following document: www.unipd.it/node/85793

N.B.: failing to comply with the deadlines and the terms of the indicated procedures and failing to pay the first instalment at the same time is equivalent to waiving admission to the chosen Master’s degree.

Registration procedures for the course will only be considered final once formalities have been completed by the Student Career Office - Enrolment Sector.

Contacts and assistance: www.unipd.it/immatricolazioni and www.unipd.it/callcentre

6. STUDENT FEES AND BENEFITS

For new enrolments, the first instalment of the university fee, for the academic year 2022/2023, is 192.00 euro (of which: 176.00 euro is the regional tax for the right to study at university and 16.00 euro is the stamp duty). Students with a disability between 66% and 100% or with certification pursuant to Italian Law no. 104 (Article 3, paragraph 1), are entitled to a total exemption, which only entails the payment of the stamp duty, of 16.00 euro.

Information about instalments, payments and scholarships: www.unipd.it/contribuzione-benefici

Contacts and assistance: benefici.studenti@unipd.it
7. CANDIDATES IN POSSESSION OF A FOREIGN QUALIFICATION

The selection procedure for candidates in possession of a foreign qualification is open solely for the “Financial Engineering” curriculum.

Students holding a foreign qualification are admitted according to the provisions of the Italian Ministry of University and Research, available at www.mur.gov.it/it - University - Foreign Students, after passing the required tests and submitting the necessary documentation.

Contacts and assistance: international.admission@unipd.it.

7.1 Registration procedure for EU or non-EU candidates residing in Italy

Citizens of Norway, Iceland, Liechtenstein, Switzerland and the Republic of San Marino shall be treated as Community nationals. Non-EU candidates residing in Italy will be admitted subject to verification of their residence permit.

In order to take part in the selection process for the “Financial Engineering” curriculum, applicants are required to:

1. **pre-enrol** in the [www.uniweb.unipd.it](http://www.uniweb.unipd.it) portal according to the methods and schedules indicated in this Notice (point 2);

2. upload the documentation necessary to **verify their foreign qualification** for entry and for the assessment of qualifications for the ranking via [apply.unipd.it](http://apply.unipd.it) portal in accordance with the specified procedures at [www.unipd.it/studiare-inglese-come-fare-domanda](http://www.unipd.it/studiare-inglese-come-fare-domanda). The application must be sent from 18 July and by 12:00 noon - local time - (GMT + 1) on 30 September 2022.

Failure to submit documentation, the submission of incomplete documentation or the submission of an unsuitable qualification will prevent the offices from completing enrolment.

Candidates are exempt from the Italian language test pursuant to d.lgs. (Italian Legislative Decree) no. 286/98, Article 39, paragraph 5, as amended.

In order to ensure a regular start to teaching, all international students must be duly enrolled with all the necessary documents by 31 October 2022.

Eligible candidates wishing to enrol must:

1. submit the application for online enrolment in the [www.uniweb.unipd.it](http://www.uniweb.unipd.it) portal and make payment of the first instalment according to the procedures and terms indicated in this Notice (point 7);

2. have the Admissions and Welcome department of the Global Engagement Office view the specified original documentation, according to the procedures that will be indicated at [www.unipd.it/studiare-inglese-immatricolarsi](http://www.unipd.it/studiare-inglese-immatricolarsi).

8. RECOGNITION OF CREDITS TO SHORTEN THE UNIVERSITY CAREER

Candidates may apply to have the activities and exams they have obtained (including those obtained abroad) - such as single courses or previous university experiences - recognised so as not to have to repeat them during their course of study.
To apply for your university career to be shortened, you need to submit the pre-enrolment application (point 2) and have the minimum curricular requirements specified for the course, following the submission of the relevant assessment application (point 3). Applications for credits to be recognised must be submitted within the assessment procedure for the minimum curricular requirements, respecting the relevant deadlines: instructions for submitting the application for the assessment of minimum curricular requirements online and the application for credits to be recognised will be published from 18 July 2022 at www.unipd.it/ammissioni-ing-mathematical.

The university credits (CFUs) necessary to achieve the minimum curricular requirements, or those included in the qualification used for admission to the course, will not be validated for shortening the university career.

As regards the “Mathematical Modelling for Engineering and Science” curriculum, instructions for enrolment following the recognition of credits are available at: www.unipd.it/node/80240. The exams that can be validated will be uploaded into the candidate’s student record book after enrolment has been completed, and no later than the first exam session useful for the academic year 2022/23.

As regards the “Financial Engineering” curriculum, based on the proposed year of admission specified in the decision, candidates must:

- 1st year: meet the admission requirements and follow the relevant procedures indicated in point 1.2, without any difference with respect to those entering the course without any recognition for shortening the university career. The exams that can be validated will be uploaded into the candidate’s student record book after enrolment has been completed, and no later than the first exam session useful for the academic year 2022/23;

- 2nd year: a communication will be published from 11 October 2022 at www.unipd.it/ammissioni-ing-mathematical, giving instructions on how to gain entry to the second year, including the deadlines for enrolment for candidates with the “admitted” status. The procedures will be defined based on the number of eligible candidates and the availability of places on the course:
  - if the number of eligible candidates is lower than the number of places available, every candidate will be admitted automatically;
  - if the number of eligible candidates exceeds the number of places available, a merit ranking will be prepared for entry to the course, which will be drawn up using criteria provided by the course of study. Eligible candidates who do not have the “admitted” status can only enrol for the 1st year, taking part in the selections indicated in point 1.2, without any difference with respect to those who did not apply for credits to be recognised.

The exams that can be validated will be uploaded into the candidate’s student record book after enrolment has been completed, and no later than the first exam session useful for the academic year 2022/23.

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4 A candidate has the “admitted” status if, in addition to being eligible, he/she is suitably placed in any ranking for entry to the 2nd year.
5 A candidate is eligible if the commission’s decision proposes their entry to the 2nd year.
9. PERSON RESPONSIBLE FOR THE PROCEDURE, PERSONAL DATA, NOTES AND WARNINGS

1. Pursuant to Article 4 of Italian Law 241 of 7 August 1990 (New rules on administrative procedures and right of access to administrative documents) and subsequent amendments, the President of the Course of Study or the Committee responsible for evaluation shall be appointed as the person/body responsible for the administrative procedure on admissions.

2. Person Responsible for the Procedure for Accessing Documents: Director of the Student Career Office, Dott.ssa Maria Chiara Ferraresi. Candidates have the right to exercise their right of access to the application documents according to the provisions of Italian Presidential Decree no. 184 of 12 April 2006.

3. Current legislation on declarations: in the event that the documentation submitted by the candidate contains false or untrue declarations, without prejudice to the penalties provided for by the Italian Criminal Code and the special laws on this matter (Articles 75 and 76 of Italian Presidential Decree 445/2000), the candidate’s enrolment shall cease ex-officio. The University will recover any benefits granted (e.g. scholarships) and will not reimburse the fees paid. Finally, a false declaration will entail exposure to an action for damages brought by the counterparties.

Personal data provided by candidates, collected for the purposes set out in this Notice, shall be processed in compliance with the provisions of EU Regulation no. 679 of 27.04.2016 (the General Data Protection Regulation, GDPR), and the policy available at www.unipd.it/informativa-studenti. Further general information on the current regulations for admission can be found at www.unipd.it/avvisi-ammissione-corsi.
Any changes or additions to the content of this Admission Notice will be:

- published in the official register of the University;
- announced on the University’s web pages, at www.unipd.it/avvisi-ammissione-corsi

For anything not specified in this Admission Notice, reference should be made to current legislation.

Padua, 21 April 2022

THE RECTOR
Prof. Daniela Mapelli

digitally signed pursuant to d.lgs (Italian Legislative Decree) no. 82/2005
10. APPENDIX 1 – COURSE DESCRIPTION AND THE MINIMUM CURRICULAR REQUIREMENTS FOR ADMISSION

A course description is given below, containing information on the minimum curricular requirements needed for entry.

Prospective students are advised to read their full description in the Syllabus of the chosen Course, available in Art. 2, paragraph 1, of the relevant Course Regulations. Full descriptions of the Courses and the relevant Course Regulations can be found at https://didattica.unipd.it/off/2022/LM/IN/IN2551, by selecting the Course you are interested in.

The procedures to be followed for admission to the course are summarised in point 1.2 of this notice.
MATHEMATICAL ENGINEERING

Curricula:
● Mathematical Modelling for Engineering and Science
● Financial Engineering

To gain entry to the course, you need to meet the requirements described in each of the following points:

1. Grade of Degree used for entry to the course:

   Higher than or equal to 84/110 or equivalent

For candidates in possession of an Italian qualification under a legal system other than those governed by DM (Italian Ministerial Decree) 509/99 or DM 270/2004, or in possession of a qualification obtained abroad (solely for the "Financial Engineering" curriculum), the possession of the curricular requirements will be assessed by the Admissions Committee.

2. Previous course of study:

   Alternative 1: possession of a degree awarded in any Italian university belonging to class L-7 or L-8 or L-9 or L-18 or L-30 or L-31 or L-35 (DM 270/2004)

   Or

   Alternative 2*: possession of a degree awarded in any Italian university belonging to any class and possession of a minimum number of CFUs, divided into the University Scientific Areas (SSDs) indicated:

   At least 25 CFUs
   MAT/02,03,05,06,07,08, FIS/01, SEC-S/01,02,03,06

* To read the required SSDs, the numbers separated by a comma need to be considered, e.g. FIS/01,02,03 should be read as FIS/01, FIS/02, FIS/03

For graduates with a high level of preparation, resulting from knowledge and skills certified in the curriculum, coming from educational backgrounds that are not perfectly consistent with the entry requirements, a different initial entry path and/or specific entry tests can be arranged.

3. Language skills:

   English – Listening and reading comprehension

   Level B2 or higher, to be certified through:
   - a university exam at level B2 or
   - possession of an international level B2 certification

If candidates cannot provide a suitable language certification or a university exam at level B2 (information at https://ingegneria.unipd.it/requisiti-inglese-lm-ingegneria), they may demonstrate their language skills by passing a level B2 English comprehension test at the University Linguistic Centre (CLA). More detailed information on the procedures and dates are available on the CLA website https://cla.unipd.it/test-linguistici/futuri-studenti/ and on the Scuola di Ingegneria website https://ingegneria.unipd.it/requisiti-inglese-lm-ingegneria

N.B. Even when candidates are in possession of the admission requirements for the Course, the Admissions Committee may, in any case, provide information for further study that is suggested in order to allow candidates to undertake the Master’s Degree Course successfully.

Full information sheet about the course: https://didattica.unipd.it/off/2022/LM/IN/