

UNIVERSITY OF PARMA
DEPARTMENT OF MEDICINE AND SURGERY
CALL FOR APPLICATIONS

Single cycle Degree Programme in **MEDICINE AND SURGERY**

(Medicine and Surgery – degree programme taught in English)

Degree Class LM-41 – Teaching location: PIACENZA

ACADEMIC YEAR 2026/2027

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Art. 1 – Purpose and addressees of the Call

This Call regulates admission, for Academic Year 2026/2027, to the single-cycle Degree Programme in Medicine and Surgery, Degree Class LM-41, taught in English and based in Piacenza.

Admission to the first year is subject to national restricted access and participation in the single admission test provided for by Ministerial Decree No. 1005/2026.

The test is the same for the single-cycle Degree Programmes in Medicine and Surgery, Dentistry and Dental Prosthetics, and Veterinary Medicine taught in English, and its content is identical at all test locations.

For candidates from EU countries and candidates from non-EU countries referred to in Article 39(5) of Legislative Decree No. 286/1998, admission takes place within the national merit ranking list.

Candidates from non-EU countries residing abroad compete exclusively within the local ranking list of the University to which they submitted their pre-enrolment application, within the deadlines and according to the procedures laid down in the Ministerial Circular published on the University portal.

All candidates wishing to enrol in the first year must take the admission test.

Art. 2 – Available places

For Academic Year 2026/2027, the following places are available at the University of Parma – Piacenza teaching location:

Category	Places
Candidates from EU countries and candidates from non-EU countries referred	80

Category	Places
to in Article 39(5) of Legislative Decree No. 286/1998	
Candidates from non-EU countries residing abroad	50
Maximum total number of places	130

The quotas are established by Table B annexed to Ministerial Decree No. 1005/2026.

The University shall verify the correct identification of the quota to which each candidate belongs, including after the test and any subsequent allocation of a place.

Non-EU candidates residing abroad are invited to consult the ministerial procedures concerning entry, residence, enrolment and recognition of qualifications, published on the University portal.

Art. 3 – Admission requirements and entry qualification

3.1 Educational qualification

Candidates may participate in the procedure if they hold an upper secondary school diploma granting access to university studies in Italy, or a qualification obtained abroad recognised as suitable for access to the Italian university system in accordance with current legislation and the ministerial provisions applicable to international students.

In any case, enrolment is subject to verification of the declared qualification's validity and, in the case of foreign qualifications, verification of the relevant documentation.

3.2 Knowledge of English

The programme is taught entirely in English.

For the purposes of the ministerial procedure, possession of any language certificates provided for in Annex 3 to Ministerial Decree No. 1005/2026 must be declared when registering on University.

All students must submit a certificate proving knowledge of English at CEFR level B2 or above at the time of enrolment, regardless of the quota to which they belong.

Possession of such certification is also relevant as a priority criterion in the event of candidates obtaining the same score.

Candidates are exempt from the obligation to provide a certificate if English is one of the official languages in their country of origin, or if they attended a school or educational institution where English was the language of instruction for at least one year

Art. 4 – Procedure deadlines

All deadlines indicated as mandatory by ministerial provisions must be complied with irrespective of the reasons for any delay.

The main dates are summarised below.

Requirement	Date/deadline	Notes
Opening of registration for the test on Universitaly	26 August 2026	Online procedure only
Closing of registration and modification of preferences	9 September 2026, 3:00 p.m. (GMT+2)	Mandatory deadline. After this time, preferences are irrevocable and cannot be supplemented
Payment of admission test fee	According to the procedures and deadlines published on Universitaly	Payment without regular online registration does not entitle the candidate to take the test
Request for assistance/additional time for disability or SLD	9 September 2026, 3:00 p.m.	See Art. 6
Publication of UniPR venue, rooms and summons	Integrated Biotechnology Centre – Via Volturno 39, Parma, Rooms A and B	Following the MUR/CINECA notice specifying addresses and rooms
Admission test	29 September 2026 – test starts at 1:30 p.m.; candidates summoned at 8:30 a.m.	Standard duration: 100 minutes
Publication of score by label code	8 October 2026	Reserved area of Universitaly
Viewing of test paper, score and personal data form	19 October 2026	Reserved area of Universitaly
Publication of the national named ranking list	26 October 2026	With ASSIGNED / RESERVED / WAITING status

Requirement	Date/deadline	Notes
Enrolment for ASSIGNED candidates and, optionally, RESERVED candidates	Within 4 days of each ranking update	Including the day on which the ranking update is published; Saturdays and public holidays excluded
Confirmation of interest in remaining in the ranking	By 12:00 noon on the 5th day provided for by the Ministerial Decree	Mandatory for interested candidates who have not enrolled, except in cases provided for by ministerial rules
First subsequent ranking update	3 November 2026	Publication by CINECA/University
Application for reduction of personalised university tuition fees	4 November 2026, 5:00 p.m.	To be submitted through ER.GO also by candidates registered for the test and candidates awaiting ranking updates
Local ranking list for non-EU candidates residing abroad	By 26 October 2026	Publication on the UniPR website
Enrolment from the local non-EU ranking list	From 27 October to 10 November 2026	Local deadlines and ranking updates to be defined

Art. 5 – Registration for the admission test on University

5.1 Ministerial procedure

Applications to take the admission test must be submitted exclusively through the University portal between 26 August 2026 and 3:00 p.m. (GMT+2) on 9 September 2026.

After registering on the portal and reading the privacy notice concerning the processing of personal data, candidates must provide the information requested by the procedure, indicate a valid email address, declare any recognised language certificates they hold and indicate, in order of preference, the university locations for which they wish their test result to be considered.

The last confirmation submitted by 3:00 p.m. (GMT+2) on 9 September 2026 shall be considered valid.

After this deadline, preferences are irrevocable and cannot be amended or supplemented.

If candidates intend to sit the test at an Italian test centre, their first-choice university automatically becomes the location where they sit the test.

No exceptions regarding the test location shall be permitted.

Candidates wishing to sit the test abroad must select one of the foreign test centres listed in Table A annexed to Ministerial Decree No. 1005/2026.

5.2 Admission test fee

Registration is completed upon payment of the test participation fee in accordance with the procedures published on University when registration opens.

Candidates must register online. Payment of the fee without registration does not entitle them to take the test.

5.3 Non-EU candidates residing abroad

In addition to registering for the admission test, non-EU candidates residing abroad must have submitted a pre-enrolment application to the University of Parma through University in accordance with the ministerial provisions applicable to international students.

They compete exclusively for the places available in the UniPR local ranking list.

5.4 Registration with UniPR services

Registration for the ministerial admission test takes place through University.

Candidates must register with the UniPR – Esse3 university information system for the purposes of possible subsequent enrolment.

<https://unipr.esse3.cineca.it/Root.do>

Art. 6 – Candidates with invalidity, disabilities and Specific Learning Disorders (SLDs)

Candidates holding an invalidity certificate or certification under Law No. 104/1992, or a diagnosis of specific learning disorders under Law No. 170/2010, may request specific assistance and compensatory measures, as well as additional time. Applications must be submitted in accordance with the procedures set out in this Article.

The request must be submitted to the University of Parma at protocollo@unipr.it by 3:00 p.m. on 9 September, using the application form for admission to Degree Programmes available at:

<https://www.unipr.it/cai/inclusione>

Candidates holding an invalidity certificate or certification pursuant to Law No. 104/1992 may be granted additional time of up to 50% of the standard 100 minutes provided for the test.

Candidates diagnosed with an SLD may be granted additional time of up to 30%.

SLD diagnoses must comply with the time and personal requirements established by Article 4 of Ministerial Decree No. 1005/2026.

Candidates from EU countries and non-EU candidates residing abroad with disabilities who wish to receive personalised support must submit relevant certification issued in their country of residence. Documents must be legalised where applicable as required by international rules, and accompanied by a sworn translation certified by the Italian diplomatic authorities as corresponding to the original. The translation must be in either Italian or English.

The University's Welcome and Inclusion Centre shall verify that the foreign documentation certifies a condition of disability recognised under Italian law.

The University reserves the right to request additional documentation and shall determine the measures to be granted based on the candidate's certified needs.

Art. 7 – Admission test

7.1 Date, time and venue

The admission test will take place on **29 September 2026**.

At Italian test centres, the test will begin at **1:30 p.m.** and will have a standard duration of **100 minutes**.

UniPR	test	venue:
Integrated Biotechnology Centre – Via Volturmo 39, Parma, Rooms A and B.		

Time for candidates to report and start identification procedures:
29 September 2026 at 8:30 a.m., Integrated Biotechnology Centre – Via Volturmo 39, Parma.

Final information concerning the venue, examination rooms and access arrangements will be published on the UniPR institutional webpage dedicated to nationally restricted-access admission tests:

<https://www.unipr.it/test-di-ammissione-ai-corsi-numero-programmato-nazionale-2026-2027>

7.2 Test content

The test consists of **60 questions**, each with five possible answers, only one of which is correct, distributed as follows:

Subject	Questions
Reading skills and knowledge acquired during previous studies	4
Logical reasoning and problem solving	5

Subject	Questions
Biology	23
Chemistry	15
Physics and Mathematics	13
Total	60

The subject syllabuses are those contained in Annex A to Ministerial Decree No. 1005/2026.

All questions are written in English.

Art. 8 – Test procedures

8.1 Identification and permitted materials

Candidates must report to their assigned test centre at the specified time carrying:

- a valid identity document;
- the receipt confirming registration for the test on University;
- the receipt confirming payment of the test participation fee;
- for non-EU candidates, the form used to determine the relevant quota category.

Where more than one examination room is used, candidates shall be allocated in accordance with ministerial provisions.

Only the black pen supplied by the University may be used to complete the answer sheet.

Candidates are prohibited from bringing mobile phones, handheld devices, smartphones, smartwatches, tablets, earphones, webcams or similar equipment into the test centre, as well as pens, pencils, personal stationery, manuals, textbooks, notes, blank sheets of paper or any other reference material. Candidates are also prohibited from using these items during the test.

8.2 Completion and submission

Candidates must indicate their chosen answer by placing an **X** in the corresponding box.

Only one answer already given may be corrected, by completely blacking out the previously selected box and selecting another answer.

To clearly indicate the intention not to answer a question, candidates may mark the specific circular symbol provided on the answer sheet. Once marked, this choice cannot be changed.

Candidates must sign the pre-completed personal data form.

At the end of the test, each candidate must select a pair of identical adhesive labels, placing one on the personal data form and the other on the answer sheet, and personally verify that the alphanumeric codes correspond.

The personal data form and answer sheet must then be placed in their respective containers in accordance with the Examination Committee's instructions.

8.3 Grounds for annulment

Pursuant to Annex 1 to Ministerial Decree No. 1005/2026, the following constitute grounds for annulment of the test:

- taking the test in an examination room other than the assigned room, unless the change has been authorised and officially recorded;
- bringing into and/or using in the examination room mobile phones, handheld devices, smartphones, smartwatches, tablets, earphones, webcams or similar equipment, manuals, textbooks and/or full or partial reproductions thereof, handwritten notes or reference material;
- placing a signature or any identifying mark of the candidate or members of the Examination Committee on either side of the answer sheet;
- interaction between candidates, attempts to copy, or exchanging any materials, including personal data forms and answer sheets;
- using pens, pencils or other writing implements, during the final procedures for placing the personal data form and answer sheet into the relevant containers, for the purpose of modifying, supplementing or correcting the answer sheet.

The test shall be annulled by the Examination Committee. In the cases provided for by the Ministerial Decree, CINECA shall not calculate the score for an annulled test.

Art. 9 – Assessment, ranking lists and tie-breaking criteria

9.1 Score

The maximum score obtainable is **90 points**.

The test is assessed according to the following criteria:

Answer	Score
Correct answer	+1.5 points
Incorrect answer	-0.4 points

Answer	Score
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Unanswered question 0 points

9.2 Minimum eligibility score

Candidates from EU countries and candidates from non-EU countries referred to in Article 39(5) of Legislative Decree No. 286/1998 must achieve a minimum score of **20 points**.

Candidates who do not achieve this threshold shall not be included in the national ranking list.

The 20-point threshold does not apply to non-EU candidates residing abroad. For these candidates, only those who obtain a score greater than zero are considered eligible.

Candidates who have not answered any questions shall not be included in the local ranking list.

9.3 Tie-breaking criteria

In the event of candidates obtaining the same overall score, the following criteria shall be applied in order:

1. the candidate with the higher score, in descending order, in Biology, Chemistry, Physics and Mathematics, Logical Reasoning and Problem Solving, and Reading Skills and Knowledge Acquired During Previous Studies shall prevail;
2. priority shall be given to candidates who, by the closing date for registrations, hold a language certificate included in Annex 3 to Ministerial Decree No. 1005/2026 and declared it when registering for the test;
3. in the cases provided for by the Ministerial Decree, priority shall be given to candidates holding certification of invalidity equal to or greater than 66%, or disability certification pursuant to Article 3(3) of Law No. 104/1992;
4. in the event of a further tie, priority shall be given to the younger candidate.

Candidates wishing to rely on the preferential criterion relating to invalidity/disability must submit the relevant documentation to the University to which they are assigned within the mandatory deadline of 15 days from the date of assignment, in accordance with ministerial procedures.

Art. 10 – Results and national ranking list updates

10.1 Publication of results

Date	Publication
8 October 2026	Score obtained, associated with the candidate's label code, in the reserved area of University
19 October 2026	Test paper, score and personal data form in the reserved area of University
26 October 2026	National named ranking list indicating the candidate's status

10.2 Ranking status

ASSIGNED

Candidates falling within the number of places available for their highest available preference must enrol at the university and programme to which they have been assigned within the ministerial deadline of four days, including the day on which the ranking update is published and excluding Saturdays and public holidays.

Failure to enrol within the deadline will result in the right to enrol being withdrawn.

RESERVED

Candidates who have obtained a place corresponding to a preference ranked lower than another university or programme to which they gave higher priority.

They may enrol at the university at which they are currently in reserve list within the four-day deadline or wait for subsequent ranking updates.

Enrolment at the university where the candidate is reserved automatically cancels all higher preferences previously expressed.

WAITING LIST

Candidates who do not currently have a place available for enrolment but retain the possibility of obtaining one through subsequent ranking updates, subject to compliance with the obligation to confirm their interest as provided for by the Ministerial Decree.

10.3 Confirmation of interest

All candidates required to do so must confirm through their reserved area on University that they wish to remain in the ranking list within five days of the deadline indicated by the Ministerial Decree and, in any case, by 12:00 noon on the fifth day following each ranking update, including the day of publication and excluding Saturdays and public holidays.

Failure to confirm interest will result in exclusion from subsequent ranking updates and the loss of any right to enrol.

10.4 Ranking updates

The first ranking update following publication of the initial ranking list will be published by CINECA on **3 November 2026**.

Subsequent ranking updates shall follow the same procedures and ministerial deadlines.

Candidates are solely responsible for regularly checking their reserved area on University and the UniPR webpages dedicated to the procedure.

Art. 11 – Enrolment at UniPR

Candidates who are **ASSIGNED** to the University of Parma and candidates who are in reserve list and decide to enrol at the University must complete the procedure within the ministerial deadline applicable to the relevant ranking update.

11.1 Esse3 procedure

Candidates shown as assigned/in reserve list on the University portal must log into the UniPR – Esse3 university information system:

<https://unipr.esse3.cineca.it/Root.do>

They must complete their registration, if not already registered, and enrol in the **Medicine and Surgery admission procedure** by selecting:

Student Administration > Admission Procedures

After completing this phase, candidates must proceed with enrolment by selecting:

Student Administration > Enrolment

Once the enrolment application has been completed, candidates must pay the first instalment of the tuition fees, amounting to **EUR 156.00**, via PagoPA, by the deadline applicable to the relevant ranking update.

To ensure compliance with the deadline, electronic payment receipts will be considered valid in accordance with the University's current rules.

11.2 Application for tuition fee reduction

Students enrolled or intending to enrol in UniPR degree programmes, including candidates registered for admission tests and candidates awaiting ranking updates, may apply for a reduction of their personalised university tuition fees through the ER.GO website by **4 November 2026 at 5:00 p.m.**

Failure to submit the application will result in application of the maximum contribution provided for under the 2026/2027 University Prospectus.

11.3 Qualifications obtained abroad

Candidates holding a qualification obtained abroad must submit the documentation required by ministerial provisions and by the UniPR procedures applicable to Academic Year 2026/2027.

For information concerning certification requirements, candidates should consult the UniPR website at:

<https://corsi.unipr.it/en/cdlm-ms/enrolment-procedures-and-deadlines>

To ensure compliance with the deadline, electronic payment receipts will be considered valid in accordance with the University's current rules.

Enrolment may be granted provisionally, subject to verification of the qualification's validity.

The University reserves the right to verify any declarations at any time and to cancel enrolment if they prove to be false or if the relevant requirements have not been met

The University reserves the right to verify any declarations at any time and to cancel enrolment if they prove to be false or if the relevant requirements have not been met.

11.4 Health requirements

Enrolled students must comply with any health and vaccination requirements applicable to participation in professional training and clinical placement activities.

All enrolled students must submit their vaccination certificate at the time of enrolment.

Foreign students, regardless of the quota to which they belong, must submit a translated and legalised vaccination certificate.

Art. 12 – Non-EU candidates residing abroad

A local ranking list of the University of Parma shall be drawn up for the **50 places reserved for candidates from non-EU countries residing abroad**.

Candidates may be included in this ranking list only if they have:

- duly submitted a pre-enrolment application for the University of Parma through University;
- completed registration for the admission test within the applicable deadlines;
- taken the admission test;
- obtained a score greater than zero;
- met the admission requirements laid down by current legislation;

- where applicable, completed the procedure for obtaining a study visa.

Date and place of publication of the local ranking list:

<https://corsi.unipr.it/en/cdlm-ms/>

First enrolment period: from 27 October 2026 to 10 November 2026.

For enrolment purposes, candidates who have been **ADMITTED** may access their reserved area on Esse3 and select:

Student Administration > Enrolment

Failure to enrol within the assigned deadline will result in forfeiture of the place and will allow the local ranking list to be updated.

Art. 13 – Transfers and admission to years after the first

Procedures for admission to years after the first are separate from the first-year admission procedure governed by this Call.

Admission may take place only where places are available in the relevant cohort, subject to assessment of examinations passed, credits obtained, prerequisite requirements and practical activities already completed, and following publication of a specific notice or public call by the University.

For students transferring from universities in EU or non-EU countries, the receiving Italian University shall assess the academic pathway completed, with regard to examinations passed, theoretical studies and practical experience acquired, within the limit of the places available for each year of the programme.

Under no circumstances may students be enrolled in excess of the number of places available in the relevant cohort.

Art. 14 – Examination Committee, person responsible for the procedure and contacts

The Examination Committee for the admission test at the University of Parma shall be appointed by a specific Rector's Decree.

Person responsible for the administrative procedure pursuant to Law No. 241/1990:

Dr. Rosanna Antonino, Head of the Piacenza Campus Organisational Unit
Email: rosanna.antonino@unipr.it

Area	Contact
Registration University	on Assistance channels available on https://www.universitaly.it/
Administrative information concerning the procedure	Student Administration Office – Medical Area: https://servicedesk.unipr.it/rexpondo/index.pl or medicineandsurgery@unipr.it
Esse3 IT issues	helpdesk.informatico@unipr.it / UniPR Service Desk
Information about the degree programme	https://corsi.unipr.it/it/cdlm-ms ; didattica.dimec@unipr.it

Art. 15 – Processing of personal data and access to administrative records

15.1 Processing of personal data

Personal data provided by candidates are processed by the University of Parma and by the other institutions involved in the procedure, including the Ministry of Universities and Research and CINECA, exclusively for purposes connected with the admission procedure, preparation of the ranking lists and possible subsequent enrolment, in compliance with Regulation (EU) 2016/679 and applicable national legislation.

Data Controller:

University of Parma

Via Università, 12

43121 Parma

Data Protection Officer

dpo@unipr.it

Certified email (PEC): dpo@pec.unipr.it

General privacy notice concerning the processing of students' personal data:

<https://www.unipr.it/documenti/informativa-generale-sul-trattamento-dei-dati-personali-degli-studenti>

15.2 Access to administrative records

Candidates may exercise their right of access to the administrative records relating to the procedure pursuant to Law No. 241/1990 and Presidential Decree No. 184/2006, in accordance with the procedures published by the University of Parma.

Art. 16 – Publication, communications and final provisions

This Call, together with any notices of correction or amendment, information concerning the test location, local ranking lists and any further communications falling within the competence of the University, shall be published on the UniPR institutional website.

For the 2026/2027 procedure, the reference page is:

<https://www.unipr.it/test-di-ammissione-ai-corsi-numero-programmato-nazionale-2026-2027>

Communications concerning the national ranking list and subsequent ranking updates shall be made available in the reserved area of the University portal.

Publication on the above-mentioned websites constitutes official notification to interested parties.

Candidates are responsible for regularly checking their reserved area on University, the UniPR webpage dedicated to the procedure and the email address provided when registering.

For all matters not expressly governed by this Call, reference shall be made to Ministerial Decree No. 1005/2026 and its annexes, subsequent communications, notices and any corrigenda issued by the Ministry, the provisions applicable to international students and the regulations in force at the University of Parma.

Any ministerial amendments introduced after publication of this Call shall be incorporated and communicated by means of a specific notice.

In the event of any conflict between the provisions of this Call and subsequently issued ministerial rules or measures, the latter shall prevail.

The remedies provided for by law may be brought against acts adopted within the procedure, within the applicable statutory deadlines.

With regard to exclusion from subsequent national ranking updates due to failure to confirm interest, the specific deadlines and appeal procedures laid down in Ministerial Decree No. 1005/2026 shall apply.

THE RECTOR

Prof. Paolo Martelli

Document digitally signed pursuant to Legislative Decree No. 82 of 7 March 2005, as subsequently amended and supplemented.

ANNEX A – Syllabus for the questions in the admission test for the Degree Programme in Medicine and Surgery (LM-41), taught in English

Admission to the degree programmes requires the ability to understand and analyse written texts of different types, to carry out logical and mathematical reasoning, and to demonstrate general knowledge, particularly in the historical, geographical, social and institutional fields, as well as subject-specific knowledge in Mathematics, Chemistry, Physics and Biology.

The required skills and knowledge correspond to the preparation provided by educational institutions whose teaching and educational activities are consistent with the National Guidelines for upper secondary schools and the Guidelines for technical and vocational institutes, particularly in preparation for the State Examination.

1. Reading skills and knowledge acquired during previous studies

The ability to understand written texts in English of different kinds and with different communicative purposes is a cross-cutting skill, since all questions will be written in English and may also make use of symbolic language.

The following abilities will also be specifically assessed:

- understanding abstract, uncommon or specialist vocabulary in real contexts;
- identifying textual cohesion and coherence;

- extracting specific information from a text and making inferences from it.

These skills will be assessed based on short scientific essays, excerpts from classical and contemporary literature, or short texts dealing with current affairs published in newspapers or general-interest or specialist journals.

Based on short texts of different types and concerning various subjects, the test will also assess skills acquired during previous studies and general knowledge, including knowledge relating to international matters or issues forming part of contemporary public debate.

Questions will assess:

- the ability to place significant historical and cultural phenomena within the appropriate spatial and temporal context;
- knowledge of the main national and international institutions;
- understanding of phenomena relating to law, economics and citizenship.

2. Logical reasoning and problem solving

Questions are intended to assess the candidate's ability to logically complete a line of reasoning in a manner consistent with the stated premises.

Such premises may be expressed in symbolic or verbal form and may concern situations or problems, including abstract problems, whose solution requires different forms of logical reasoning.

3. Biology

- The chemistry of living organisms.
- The biological importance of weak interactions.
- Organic molecules present in living organisms and their respective functions. The role of enzymes.
- The cell as the basic unit of life. Cell theory. Cell dimensions. Prokaryotic and eukaryotic cells, animal and plant cells. Viruses.
- The cell membrane: structure and functions; transport across the membrane. Cell structures and their specific functions.
- Cell cycle and cell reproduction: mitosis and meiosis; chromosome complement and chromosome maps.
- Reproduction and heredity. Life cycles. Sexual and asexual reproduction.
- Mendelian genetics: Mendel's laws and their applications.
- Classical genetics: chromosomal theory of inheritance; inheritance patterns.

- Molecular genetics: DNA structure and replication, the genetic code, protein synthesis. Prokaryotic DNA. Structure of the eukaryotic chromosome.
- Genes and regulation of gene expression.
- Human genetics: inheritance of monofactorial and multifactorial traits; autosomal and X-linked hereditary diseases.
- Mutations. Natural and artificial selection. Theories of evolution. Genetic basis of evolution. Heredity and environment.
- Biotechnology: recombinant DNA technology and its applications.
- Animal and human anatomy and physiology. Animal tissues. Anatomy and physiology of human systems and organs and their interactions. Homeostasis.
- Bioenergetics. The energy currency of cells: ATP. Oxidation-reduction reactions in living organisms. Energy processes: photosynthesis, glycolysis, aerobic respiration and fermentation.

4. Chemistry

- Constitution of matter: states of matter; heterogeneous and homogeneous systems; compounds and elements.
- Ideal gas laws.
- Atomic structure: elementary particles; atomic number and mass number; isotopes; electronic structure of atoms of different elements.
- The periodic table of the elements: groups and periods; transition elements.
- Periodic properties of the elements: atomic radius, ionisation potential, electron affinity and metallic character. Relationships between electronic structure, position in the periodic table and properties of elements.
- Chemical bonding: ionic, covalent and metallic bonds. Bond energy. Bond polarity. Electronegativity. Intermolecular forces.
- Fundamentals of inorganic chemistry: nomenclature and principal properties of inorganic compounds: oxides, hydroxides, acids and salts.
- Chemical reactions and stoichiometry: atomic and molecular mass, Avogadro's number, concept of the mole and its applications, elementary stoichiometric calculations, balancing simple reactions and different types of chemical reactions.
- Solutions: solvent properties of water, solubility and the main methods for expressing solution concentration.
- Equilibria in aqueous solution.

- Elements of chemical kinetics and catalysis.
- Oxidation and reduction: oxidation number, concept of oxidising and reducing agents. Balancing simple reactions.
- Acids and bases: concept of acids and bases. Acidity, neutrality and alkalinity of aqueous solutions. pH. Hydrolysis. Buffer solutions.
- Fundamentals of organic chemistry: bonds between carbon atoms, molecular and structural formulae, concept of isomerism. Aliphatic, alicyclic and aromatic hydrocarbons.
- Functional groups: alcohols, ethers, amines, aldehydes, ketones, carboxylic acids, esters and amides. Basic nomenclature.

5. Mathematics

- **Number sets and algebra:** natural, integer, rational and real numbers.
- Ordering and comparison; orders of magnitude and scientific notation.
- Operations and their properties. Ratios and percentages. Powers with integer and rational exponents and their properties. Radicals and their properties. Logarithms, base 10 and natural logarithms, and their properties. Basic combinatorics.
- Algebraic expressions and polynomials. Special products, nth power of a binomial, factorisation of polynomials. Algebraic fractions. First- and second-degree algebraic equations and inequalities. Systems of equations.
- **Functions:** fundamental concepts relating to functions and their graphical representation, including domain, codomain, sign, continuity, maxima and minima, increasing and decreasing behaviour, etc.
- Elementary functions: polynomial and rational functions, exponential, logarithmic and trigonometric functions.
- Composite functions and inverse functions. Trigonometric equations and inequalities.
- **Geometry:** polygons and their properties. Circumference and circle. Measurement of lengths, areas and volumes. Isometries, similarities and equivalence in the plane.
- Geometric loci. Measurement of angles in degrees and radians. Sine, cosine and tangent of an angle and their notable values. Trigonometric formulae.
- Solving triangles. Cartesian coordinate system in the plane. Distance between two points and midpoint of a segment. Equation of a straight line. Conditions for parallelism and perpendicularity. Distance from a point to a straight line.

- Equations of the circle, parabola, hyperbola and ellipse, and their graphical representation in the Cartesian plane. Pythagorean theorem. Euclid's first and second theorems.
- **Probability and statistics:** frequency distributions according to type of variable and main graphical representations. Concept of random experiment and event. Probability and frequency.

6. Physics

- **Physical quantities and measurement:** fundamental and derived physical quantities.
- Systems of measurement units: International System and Technical System. Multiples and submultiples.
- Scientific notation. Main conversions between units belonging to different measurement systems. Scalar and vector quantities. Vectors and vector operations.
- **Kinematics:** description of motion. Velocity and angular velocity, acceleration and centripetal acceleration. Uniform rectilinear motion, uniformly accelerated motion, uniform circular motion and harmonic motion.
- **Dynamics:** concept of force as interaction between bodies. Forces as applied vectors. Principle of inertia. Mass and Newton's second law. Examples of forces: weight, elastic force, static and dynamic friction. Action and reaction: Newton's third law. Impulse and momentum. Conservation of momentum. Torque and angular momentum. Work and kinetic energy. Conservative forces and potential energy. Conservation of mechanical energy. Power.
- **Fluid mechanics:** density and compressibility of fluids. Gases and liquids. Hydrostatics: pressure and the principles of Pascal, Stevin and Archimedes. Fluid dynamics: one-dimensional motion, flow and flow rate, continuity equation. Ideal fluids and Bernoulli's equation. Viscous forces in real fluids.
- **Thermodynamics:** equilibrium, concept of temperature, thermometers. Concept of heat and calorimetry. Heat transfer mechanisms. Heat capacity and specific heat. Changes of state and latent heat. Ideal gas laws. First and second laws of thermodynamics.
- **Electricity and electromagnetism:** electric charges. Forces between charges and Coulomb's law. Electric field and electric potential, equipotential surfaces. Dielectric constant, capacitance and capacitors. Electrostatic energy. Capacitors in series and parallel. Generators. Electric voltage. Electric current. Resistivity, resistance and resistors. Ohm's law. Resistors in series and parallel. Kirchhoff's laws. Work, power and Joule effect. Direct and alternating current. Period and frequency. Magnetic field generated by an electric current. Forces acting on electric currents in a magnetic field. Electromagnetic induction.

ANNEX B – List of language certificates recognised pursuant to Annex 3 to Ministerial Decree No. 1005 of 6 August 2026

Ente Certificatore	Level	Certificazione di lingua inglese per le 4 abilità
Cambridge English Language Assessment	C2	Cambridge English: Proficiency (CPE)
	C1	Cambridge English: Advanced (CAE) Cambridge English: Business Higher (BEC Higher)
	B2	Cambridge English: First (FCE) Cambridge English: Business Vantage (BEC Vantage)
City and Guilds (Pitman)	C2	Level 3 Certificate in International ESOL Diploma Mastery C2
	C1	Level 2 Certificate in International ESOL Diploma Expert C1
	B2	Level 1 Certificate in International ESOL Diploma Communicator B2
Edexcel/Pearson Ltd	C2	PTE General Level 5 Proficient
	C1	PTE General Level 4 Advanced
	B2	PTE General Level 3 Upper Intermediate
EDI (LCCIEB)	C1	JETSET Level 6 English for Business Level 4
	B2	JETSET Level 5 English for Business Level 3 English for Commerce Level 3
IELTS	C2	IELTS band 8.5 - 9.0
	C1	IELTS band 7.0- 8.0
	B2	IELTS band 5.5- 6.5
TCL Trinity College London	C2	Integrated Skills in English (ISE) IV
	C1	Integrated Skills in English (ISE) III
	B2	Integrated Skills in English (ISE) II
TOEFL ETS	C1	TOEFL score 110-120
	B2	TOEFL score 87-109

ANNEX C – Form for determining the relevant quota only for non-Eu candidates

Allegato 1

Modulo per la determinazione del contingente di appartenenza

NOME*: _____

COGNOME*: _____

LUOGO DI NASCITA*: _____

DATA DI NASCITA*: _____

CITTADINANZA 1*: _____

CITTADINANZA 2 (solo per candidati con doppia cittadinanza): _____

PAESE DI RESIDENZA*: _____

SOLO PER I RESIDENTI IN ITALIA, indicare i seguenti dati:

- TIPOLOGIA DI PERMESSO DI SOGGIORNO (es. studio/di lunga durata):

- DATA DI PRIMA EMISSIONE DEL PERMESSO DI SOGGIORNO (indicare il mese e l'anno in cui è stato emesso per la prima volta, non la data di ultimo rinnovo) _____

IN POSSESSO DI ATTESTATO FINALE DI FOUNDATION YEAR:

☐ sì

☐ no

Parma, il _____

Firma del candidato
