CALL FOR APPLICATIONS FOR NON-EU CITIZENS NOT RESIDENT IN ITALY TO THEONE-CYCLE DEGREE COURSE IN MEDICINE AND SURGERY WITH LIMITED ACCESS(Class LM-41) IN ENGLISH AT HUMANITAS UNIVERSITY CALLED MEDTEC SCHOOL.

Academic year 2025/2026

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Art. 3 Admission Test

Only candidates who have taken and passed the admission test are admitted to the first year of the one-cycle degree course in Medicine and Surgery called MEDTEC School.
The test is delivered in two exam rounds per calendar year, with papers of equal difficulty.
For the academic year 2025/2026

Art. 5 Application for the Admission test: deadlines and modalities

only confirmation of the first exam round of March 21st 2025.
Following the first exam round on by April 2nd 2025, all candidates, will be sent confirmation of the second date.

Art. 6 - Hardware and Software Requirements

For the test, candidates must have access to:

- A computer or laptop with a camera, microphone, and speakers, running Windows 8.1, 10, 11 or MAC-OS 14, 13, 12, 11, 10.15, 10.14, 10.13, and 120 MB of free memory available on a hard disk
- A mobile device (mobile phone or tablet) equipped with a camera and microphone
- A Wi-Fi network with a minimum upload and download speed of 1 Mbps on their PC and access toat least a 4G data network on their mobile device

Candidates must install the *Safe Exam Browser* software on the computer or laptop that will be used duringthe test.

The *Safe Exam Browser* software can only be downloaded from the Politecnico Online Services portalbeginning February 27th, 2025.

All the technical details concerning how to use the software to be installed will be found in a technical guide downloadable from the Online Services portal of the Politecnico di Milano. The updated technical guide will be available from February 27th

Any places not covered by position 16 will be managed according to the following scrolling procedure:

Publication on the University's website of the number

hosted by MEDTECSchool.

The full information for applicants is published at: https://www.hunimed.eu/it/informativa-privacy/

Art. 17 – Additional Training Obligations

The results of the admission test will be analyzed to verify the need to assign Additional Educational Obligations (OFA). This will be in relation to the level of average skills of the individual student classes in the so-called basic disciplines (biology, chemistry, physics and mathematics). Any OFAs assigned are considered to have been completed by taking the courses which are provided during the first two years of the degree. For the recovery of any OFA, training support initiatives will be organized to achieve an adequate degree of homogeneity of the class in relation to the training programs.

During enrolment, foreign students will be evaluated in the level of Italian language. If the level of knowledgeof the

Annex A

Programs relating to the admission test to the MEDTEC School Medical and Surgery degree course.

Mathematics
Understanding and basics of the following topics are required:

Arithmetic and Algebra
Number sets: Natural, Integer, Rational (decimal, fraction), Irrational, Real. Properties and operations on algebraic numbers and expressions. Percentages, absolute value, powers, and roots. Operations on polynomials, factorization of polynomials. Solving algebraic equations and inequalities. Operations on rational expressions, resolution of equations and rational inequalities.

Functions
The Cartesian plane; graph of a function, graph symmetries. Properties, graph, resolution of equations and inequalities of powers, exponential and logarithmic functions, trigonometric functions.

Logic
Calculation of propositions: propositions, connectives, tables of truth, laws concerningconnectives.

Predicate calculation: predicates, quantifiers, quantifier laws.

Evaluating logical expressions. Rules of inference. Demonstration by contrast, Demonstration for absurdity.

Geometry
Flat and

anhydrides, esters, amides, acid halides, and nitriles). Oxidation and reduction of organic compounds.

Physics
Understanding and basics of the following topics are required:

Mechanical
The International System of Units; conversion of units of measurement. Scalars and vectors.

Linear and angular motion of a particle (position, displacement, velocity, acceleration); acceleration of gravity, motion of a bullet, uniform circular motion.

Strength, mass, Newton's laws. Linear moment; preservation of linear moment. Angular momentum; conservation of angular momentum.

Friction. Work; work done by gravitational force and an elastic force. Kinetic energy andpotential energy, conservation of mechanical energy. The simple pendulum.

Particle systems (center of mass, linear momentum, angular momentum; shocks).Newton's law of universal gravitation. Kepler's laws.