

**CALL FOR ADMISSION TO THE FIRST YEAR**  
**RESERVED FOR NON-EUROPEAN CANDIDATES NOT RESIDENT IN ITALY**

***Master's Degree Programme in Medicine and Surgery (LM-41)***  
**A. Y. 2022/2023**

**1. GENERAL INFORMATION**

This document is the English translation of the call for admission issued by the Rector's Decree on 15<sup>th</sup> December 2021, no. 616 for the Master's Degree Programme in Medicine and Surgery. The Italian version is the official document regulating this call. The document written in English has no legal value. In case of conflicting issues between the English and the Italian version, the Italian version succeeds.

Admission to the Master's Degree Programme in Medicine and Surgery is regulated by a selective procedure based on the following available places as indicated in the following:

**30 places** available for non-EU citizens not resident in Italy who need a long-stay visa. Each candidate must submit the visa application in accordance with the provisions published annually by the Ministry of Universities and Research on the following website [www.studiare-in-italia.it/studentistranieri](http://www.studiare-in-italia.it/studentistranieri).

The number of available places may vary in accordance to the Decree of the Ministry of University and Research, pursuant to the provisions of Law n. 264, August 2<sup>nd</sup>, 1999. The Decree will be published on the website <http://www.unicampus.it/eng/medicine-and-surgery/admissions>. In case of a reduction of the number of available places as a result of the ministerial assignment, the candidates enrolled on the basis of the procedures set out in this call for admission will forfeit and compete for any available places in the modalities provided for eligible candidates.

The selective procedure consists in a single test session, including a **written test** (scheduled for **16<sup>th</sup> March 2022**) and an **oral test** (scheduled from **18<sup>th</sup> March 2022 onwards**).

The first 6 (six) candidates in the merit ranking will be awarded with 6 (six) scholarships equal to 50% of the university tuition fee, finalised for admission to the Single-cycle Master's Degree Programme in Medicine and Surgery for the academic year 2022/2023, financed by the University Campus Bio-Medico di Roma and reserved for non-EU candidates not resident in Italy. The requirements for maintaining the scholarship in the years following the first year of the course are contained in the annex A to this call for admission.

The **reallocation procedure** (eventually) can only be activated according to the terms and conditions set out in the following paragraph 9 of this call for admission and only in case of residual places. The **reallocation** procedure is addressed to the only candidates possessing the requirements set out in paragraph 2 and who are eligible with a score equal to or higher than 2 in the **BMAT** test (2022 and 2021 sessions) or eligible with a score equal to or higher than 15 in the **IMAT** test (2022 and 2021 sessions). For this procedure, if activated, there are no scholarships foreseen, funded by the University Campus Bio-Medico di Roma and reserved for non-EU candidates not resident in Italy.

It is the candidate's responsibility to check all notices regarding the competition procedure published on the University's website at <http://www.unicampus.it/eng/medicine-and-surgery/admissions>, in the dedicated sections to admission to the Degree Programmes of interest.

**Contacts:**

- **technical assistance** for the online registration, use the link or the email address given at the bottom of the registration form;
- **assistance with the admission procedure:** [admission@unicampus.it](mailto:admission@unicampus.it);
- **assistance with the enrolment procedure:** [studentoffice@unicampus.it](mailto:studentoffice@unicampus.it).

## 2. ENROLMENT REQUIREMENTS

The only candidates who can participate in the enrolment procedure are the non-EU citizens not resident in Italy, who have obtained or will obtain in the academic year 2021/2022 a valid qualification to access to University in their country of origin (in accordance with the provisions published annually by the Ministry for Education, University and Research on the website [www.studiare-in-italia.it/studentistranieri](http://www.studiare-in-italia.it/studentistranieri)).

The only academic qualification is the one obtained after at least 12 years of schooling. Candidates who have obtained an educational qualification from a foreign school system are obliged to provide a Declaration of Value (*Dichiarazione di Valore*) issued by the Italian diplomatic representations or, alternatively, a certificate issued by the Information Centre on Academic Mobility and Equivalence (CIMEA).

In case the local school system only provides for 11 or 10 years of schooling, the academic qualification is only valid if integrated with one or two years of university (in this case the candidate must prove to have passed successfully all the exams required for the years attended). The *Foundation Year* course at University Campus Bio-Medico of Roma is also recognised, for this purpose, but only if the candidate has passed the relevant exams.

The following candidates are not eligible for selection under this call for admission:

- citizens with dual nationality, i.e. one Italian or another one from another EU country;
- non - EU citizens regularly resident in Italy;
- citizens of Norway, Iceland and Liechtenstein, Switzerland, the Republic of San Marino and Holy See, shall be treated in the same way as EU citizens.

The above-mentioned candidates must compete in accordance with the terms and conditions set out for admission procedures reserved for EU citizens, published on the website [www.unicampus.it/ammissioni](http://www.unicampus.it/ammissioni).

**Candidates applying for this call violating the above-mentioned citizenship requirements will not be included in the merit ranking.**

## 3. CANDIDATES WITH LEARNING DISABILITIES (SLD) AND/OR DISABILITIES

Candidates with invalidity and disabilities, pursuant to Law 104/92, and candidates with learning disabilities, pursuant to Law no. 170/2010, who require special conditions or special aids for the examination, must explicitly insert their request in the online application. They have to attach the related certification proving the disability or SLD level, issued in the country of residence and accompanied by a sworn translation in Italian or English that specifies the essential elements regarding the aforementioned benefits in order to enable the University to prepare accordingly to guarantee an equal participation in the tests. **The University reserves the right to verify the candidate's certification and undertakes to inform the candidate, in due time for the test, of the aids granted. Only certifications produced in Italian or English will be considered.**

## 4. REGISTRATION PROCEDURE

The application form must be submitted exclusively online by clicking on the appropriate button on the website <http://www.unicampus.it/eng/medicine-and-surgery/admissions> from **20<sup>th</sup> December 2021 to 8<sup>th</sup> March 2022 by 1 P.M. (CET)**.

The registration to the procedure requires:

1. registration on the registration portal and creation of credentials (username and password);
2. confirmation of registration on the portal through the link that the candidate receives by email;
3. access to the portal with the credentials created and the compilation of the application form **from 20<sup>th</sup> December 2021 to 8<sup>th</sup> March 2022 by 1 P.M. (CET)**;
4. online payment, by credit card, of the registration fee for the admission test of **€ 100.00** (one hundred/00) **no later than 8<sup>th</sup> March 2022 by 1 P.M. (CET)**.

By following steps from point 1 to 4, the registration procedure is considered completed. Once all the mandatory fields of the registration form have been completed, the payment of the registration fee is automatically enabled. The application is submitted only if received the confirmation of the online payment. At this point, the registration can no longer be modified.

**An application that has not been submitted is in any case considered incomplete and does not permit the participation in the competition. The registration fee for the test is not refundable under any circumstances.**

It is the candidate's responsibility to check the correct insertion of the data requested by the online registration platform. The insertion of untruthful or incorrect data, or failure to enter the same, will result in exclusion from the procedure and from the final ranking. The University Campus Bio-Medico of Rome reserves the right to carry out the necessary checks on the declarations made by the candidate.

The list of **candidates admitted to the written test** will be published on the University website at <http://www.unicampus.it/eng/medicine-and-surgery/admissions> by **11<sup>th</sup> March 2021**.

A simulator of the written admission test will be available on the registration platform. The candidates may use the simulator for practice purposes.

## **5. WRITTEN ADMISSION TEST**

The written admission test (entirely in English) will be held *telematically with remote monitoring* in accordance with the procedures set out in Annex B on **16<sup>th</sup> March 2022 at 2 P.M. (CET)**.

The test lasts **1 hour and 40 minutes and consists of 80 multiple-choice questions: Logic (50 questions), Biology (10 questions), Chemistry (10 questions), Mathematics and Physics (10 questions)**. The programmes relating to the questions are contained in Annex C to this call for admission.

Each candidate is free to end the test before the time provided for the test expires, or making use of all the minutes available. If the candidate decides to end the test before time expires, the "*close the test*" option has to be selected. In both cases, the examination platform records and saves every action taken until the end of the test. By matching the candidate's PIN code (provided in the identification procedure) with the test identification code, it will be possible to uniquely and automatically match each test to the candidate who has taken it. During the test, the candidates may not use or consult any instruments - electronical or any other types - only those strictly foreseen in Annex B.

Points are assigned as follows:

- 0,5 point for each correct answer;
- 0,1 point for each incorrect answer;
- 0 points for each not given answer.

The highest achievable score in the written test is a maximum of **40 points**.

The candidates who are placed in the **first 75 positions in the *partial merit ranking***, based on the score obtained by each candidate in the written test, will be admitted to the oral test. In case of ex aequo in the 75<sup>th</sup> position, all candidates with the very same score will be admitted to the oral test.

The list of **admitted candidates to the oral test**, identified by name and surname and in alphabetical order, as well as the timetable for the oral tests will be published on the University website <http://www.unicampus.it/eng/medicine-and-surgery/admissions> by **17<sup>th</sup> March 2022**.

The list of the candidates that are not admitted to the oral test, identified by registration code and compiled in order of score, will be published on the University website <http://www.unicampus.it/eng/medicine-and-surgery/admissions>.

## 6. ORAL TEST FOR ADMISSION

The oral test consists of an interview with an international commission that focuses on the topics as general culture, aptitude and motivation, the ability to argue and convey opinions and to interact optimally in English.

The oral test will be held telematically through the use of a video communication platform **from 18<sup>th</sup> March 2022 onwards**, and in any case according to the calendar that will be published together with the list of admitted candidates by 17<sup>th</sup> March 2022 on the University's website <http://www.unicampus.it/eng/medicine-and-surgery/admissions>.

The Commission will evaluate each candidate in thirtieths, formulating a judgement which corresponds to the score given below:

A	Excellent	(28-30 points)
B	Very good	(25-27 points)
C	Good	(from 21 to 24 points)
D	Satisfactory	(from 18 to 21 points)
E	Failed	(below 18 points)

## 7. ADMISSION TO THE MASTER'S DEGREE PROGRAMME

Candidates will be accepted to the Master's Degree Programme in Medicine and Surgery on the basis of the total achieved score, in seventieth, which will determine the position in the final merit ranking.

Candidates with a minimum score of 20/70 achieve eligibility. In the event of an equal final score, the candidate with the highest score in the written test prevails. In the event of a further tie, the place will be assigned to the younger candidate.

The merit ranking, compiled in order of score is issued by Decree of the Rector and published on the university website <http://www.unicampus.it/eng/medicine-and-surgery/admissions> by **6<sup>th</sup> April 2022**.

**Each candidate can verify the position in the ranking by means of the "username" code assigned during the admission test.**

### **Additional Learning Obligations (OFA)**

Candidates who have not answered correctly at least half of the questions in a single subject of the admission test (at least 5 in Biology, 5 in Chemistry and 5 in Mathematics and Physics) are admitted with an Additional Learning Obligations (obbligo formativo aggiuntivo - OFA). Thence, those students are expected to attend a specific course aimed at fulfilling the training for that specific discipline before taking the reference exam provided for in the Study Plan, and in any case within the first year. The fulfilment of the OFAs will be verified by the course teachers.

## 8. ENROLMENT PROCEDURE

The first 30 candidates on the merit ranking are declared winners and have to enrol **from 7<sup>th</sup> April 2022 and no later than 20<sup>th</sup> April 2022**.

To enrol, each candidate must carry out, **from 7<sup>th</sup> April 2022 and no later than 20<sup>th</sup> April 2022**, the following steps:

- create the student's credentials on the University platform by following the "enrolment instructions" published on the following website <http://www.unicampus.it/eng/medicine-and-surgery/admissions>;
- access the reserved area with the created credentials and download the registration form;
- complete and sign the registration form in all its parts;

- d. make the payment of € 8.000,00 (eight thousand/00) equal to the amount of the first tuition fee<sup>1,2</sup>; by bank transfer, to the following coordinates:

**Beneficiary:** Università Campus Bio-Medico di Roma

**IBAN code:** IT83Y0569603211000007344X73

**Swift code:** POSOIT22

**Transfer reason:** *Name and Surname of the candidate* – Medicine and Surgery

**Bank charges for the arrangement of transfers are not included in the amount of the instalment.**

- e. send - **no later than 20<sup>th</sup> April 2022** - to [studentoffice@unicampus.it](mailto:studentoffice@unicampus.it):
- the enrolment form duly completed and signed in all its parts (letter c);
  - the payment receipt of the first instalment of the first tuition fee (letter d).

**The winning candidate who does not carry out all the operations referred to in the aforementioned points (a), (b), (c), (d) and (e) by 20<sup>th</sup> April 2022 shall be automatically deemed withdrawn.**

**From 26<sup>th</sup> April 2022 eligible candidates compete for any remaining places** (not allocated to winning candidates by 20<sup>th</sup> April 2022) in order of the merit ranking.

**Eligible candidates** will be informed of the availability of places by the Student Services Office via email to the email address provided by each candidate on the application form for the admission procedure.

**It is the candidate's own responsibility to ensure the receipt of communications from the University within the appropriate time.**

Eligible candidates, **within 5 working days** (excluding Saturdays and public holidays in Italy) proceed with the enrolment procedure carrying out all the operations referred to in the aforementioned points (a), (b), (c), (d) and (e).

**The eligible candidate who, after being regularly notified, does not respect the above-mentioned deadline of 5 working days (excluding Saturdays and public holidays in Italy) is automatically deemed withdrawn.**

**By 19<sup>th</sup> September 2022**, each enrolled student (winner or eligible student recalled due to the scrolling list) must send an email to [studentoffice@unicampus.it](mailto:studentoffice@unicampus.it):

- a) a copy of the qualification accompanied by an official translation together with the legalization by the Italian diplomatic authorities;
- b) the Declaration of Value (*Dichiarazione di Valore*) of the qualification obtained abroad, specifying the evaluation system used by the local Secondary School (maximum, minimum and overall score) or, alternatively, certificate issued by the Information Centre on Academic Mobility and Equivalence (CIMEA).

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<sup>1</sup> The amount of the regional tax for the right to higher education, equal to € 140.00 (one hundred and forty/00), must be paid by 26<sup>th</sup> July 2022; the amount of the second instalment of the tuition fee, equal to € 5,000.00 (five thousand/00), must be paid by 26<sup>th</sup> January 2023; the amount of the third instalment of the tuition fee, equal to € 5,000.00 (five thousand/00), must be paid by 13<sup>th</sup> April 2023. The amount of the regional tax for the the right to higher education may vary according to the deliberations of the Lazio Region. **Bank charges for the arrangement of transfers are not included in the amount of the instalment.**

<sup>2</sup> Candidates awarded with one of the scholarships referred to in point 1 of this call for **applications must, under penalty of withdrawal, formally accept the scholarship by 11<sup>th</sup> April 2022 in accordance with the procedures that will be communicated to them by the University.** In case the awarded candidates do not accept the scholarship by 11<sup>th</sup> April 2022, they will forfeit their right to the scholarship but may still proceed with the ENROLMENT by 20<sup>th</sup> April 2022 according to the procedures set out in point 8 of this call for admission, referring to all successful candidates; scholarships not accepted will be awarded in order of ranking, with a possible refund of the first instalment to candidates who have already enrolled.

**Enrolment is considered conditional until the submission of the documentation referred to in the points (a) and (b). In the absence of such documentation, on 20<sup>th</sup> September, 2022 these candidates will be deemed withdrawn.**

**The amount of the first instalment can only be refunded to:**

- candidates who do not obtain the High School Diploma in the school year 2021/2022;
- candidates who do not obtain by the competent authorities a long-stay visa for study purposes;
- candidates, enrolled under conditions, who, as a result of the reduction in the number of places assigned annually by the Ministry for Education, University and Research, cease to be enrolled;
- candidates awarded with the scholarship financed by the Campus Bio-Medico University of Rome for the a.y. 2021/2022, taken over the withdrawal of exempted candidates.

**9. REALLOCATION PROCEDURE (EVENTUALLY)**

**By 21<sup>st</sup> September 2022**, the presence of any remaining places will be published on the University's website <http://www.unicampus.it/eng/medicine-and-surgery/admissions>. The *reallocation* procedure will only be activated in case of places available. Candidates who meet the requirements set out in point 1 and 2 of this call for admission, i.e. who have passed the BMAT test (2022 and 2021 sessions) or who have been successful in the IMAT test (2022 and 2021 sessions), may take part in this procedure. These candidates must submit their application for the *reallocation* procedure exclusively online by clicking on the appropriate button published on <http://www.unicampus.it/eng/medicine-and-surgery/admissions> **from 21<sup>st</sup> September 2022 until 10<sup>th</sup> October 2022 by 1 P.M. (CET).**

The registration to the *reallocation* procedure requires:

the online compilation of the of the application form **from 21<sup>st</sup> September 2022 until 10<sup>th</sup> October 2022 by 1 P.M. (CET).**

1. There is no registration fee foreseen for the *relocation* procedure;
2. submitting the application by clicking on the "*presenta/submit*" button on the online application platform **no later than 10<sup>th</sup> October 2022 by 1 P.M. (CET)** (if the application has been submitted correctly, the candidate will receive a confirmation email).

**Concluding the steps in point 1 and 2, the registration procedure is considered completed. An application that has not been submitted (indicated on the platform with status "bozza/draft" is in any case considered incomplete and does not permit the participation in the competition.**

It is the candidate's responsibility to check the correct insertion of the data requested by the online registration platform. The insertion of untruthful or incorrect data, or failure to enter the same, will result in exclusion from the procedure and from the final ranking and the loss of the right to enrolment or cancellation of the same. The University Campus Bio-Medico of Rome reserves the right to carry out the necessary checks on the declarations made by the candidate.

Admission to the Master's Degree Programme in Medicine and Surgery is based on a merit ranking defined by:

- a) score achieved on the BMAT (Section 1 and Section 2) or IMAT, normalised on the basis of the maximum score achievable on each test;
- b) the oral interview with an international commission, evaluated in thirtieths, and focused on the topics as general culture, aptitude and motivation, the ability to argue and convey opinions and to interact optimally in English.

The timetable for the oral interview will be published on the University website <http://www.unicampus.it/eng/medicine-and-surgery/admissions> **by 11th October 2022.**

The merit ranking for the *reallocation* procedure shall be published **by 18<sup>th</sup> October 2022**.

**Winning candidates**, within the limit of the number of remaining places, must proceed to enrolment **no later than 28<sup>th</sup> October 2022**.

To enrol, each candidate must carry out **no later than 28<sup>th</sup> October 2022** the following steps:

- a. create the student's credentials on the University platform by following the "enrolment instructions" published on the following website <http://www.unicampus.it/eng/medicine-and-surgery/admissions>;
- b. access the reserved with the created credentials area and download the registration form;
- c. complete and sign the registration form in II;
- d. make the payment of € 8.140,00<sup>3</sup> (eight thousand one hundred and fourty/00) equal to the amount of the first tuition fee, including the regional tax for the right to higher education, by bank transfer to the following coordinates:

**Beneficiary:** Università Campus Bio-Medico di Roma

**IBAN code:** IT83Y0569603211000007344X73

**Swift code:** POSOIT22

**Transfer reason:** *Name and Surname of the candidate* – Medicine and Surgery

**Bank charges for the arrangement of transfers are not included in the amount of the instalment.**

- e. send - **no later than 28<sup>th</sup> October 2022** - to [studentoffice@unicampus.it](mailto:studentoffice@unicampus.it):
  - the enrolment form duly completed and signed in all its parts (letter c);
  - the payment receipt of the first instalment of the first tuition fee (letter d);
  - a copy of the qualification accompanied by an official translation together with the legalization by the Italian diplomatic authorities;
  - the Declaration of Value (*Dichiarazione di Valore*) of the qualification obtained abroad, specifying the evaluation system used by the local Secondary School (maximum, minimum and overall score) or, alternatively, certificate issued by the Information Centre on Academic Mobility and Equivalence (CIMEA).

**The winning candidate who does not carry out all the operations referred to in the aforementioned points (a), (b), (c), (d) and (e) by 20<sup>th</sup> April 2022 shall be automatically deemed withdrawn. The amount of the tuition fee will not be refunded under any circumstances, except for candidates to whom the competent authorities do not grant a long stay visa for study purposes.**

To candidates enrolled on the basis of the *reallocation* procedure may be admitted with Additional Learning Requirements (*obbligo formativo aggiuntivo - OFA*) on the basis of the assessment of the course lecturers in the following disciplines: Biology, Chemistry Mathematics and Physics. In the presense of any OFA, the candidate shall follow a specific training course aimed at filling the educational learning requirements, before taking the reference exam provided for in the Study Plan, and in any case within the first year.

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<sup>3</sup> The amount of the second instalment of the tuition fee, equal to € 5.000,00 (five thousand/00), must be paid by 26th January 2023; the amount of the third instalment of of the tuition fee, equal to € 5.000,00 (five thousand/00), must be paid by 13th April 2023. The bank charges for the arrangement of transfers are not included in the amount of the instalment. The amount of the regional tax for the Right to higher education may vary according to the deliberations of the Lazio Region.

## 10. SUMMARY OF THE TERMS OF ADMISSION PROCEDURE

The main terms of the procedure are summarised below. For all stages of the procedure, the candidate shall rely on the extended points of the call for admission.

ASSET	TERMS AND MODALITIES	REFERENCE IN THE CALL
Online registration procedure for admission	from 20/12/2021 to 08/03/2022 1 p.m. (CET) on <a href="http://www.unicampus.it/eng/medicine-and-surgery/admissions">http://www.unicampus.it/eng/medicine-and-surgery/admissions</a>	Article 4
Publication admitted candidates and receivment of the instructions for the written test	within 11/03/2021 on <a href="http://www.unicampus.it/eng/medicine-and-surgery/admissions">http://www.unicampus.it/eng/medicine-and-surgery/admissions</a>	
Tecnical test – <i>requirements check</i>	within 15/03/2021 following the instructions received by email	Annex B
Written admission test (telematic mode)	16/03/2022, at 2 p.m. CET	Article 5
Publication admitted candidates to the oral interviews and timetable	17/03/2022 on <a href="http://www.unicampus.it/eng/medicine-and-surgery/admissions">http://www.unicampus.it/eng/medicine-and-surgery/admissions</a>	
Oral interviews (telematic mode)	from 18/03/2022 onwards. The interview calendar will be published by 17 <sup>th</sup> March 2022 on the University's website <a href="http://www.unicampus.it/eng/medicine-and-surgery/admissions">http://www.unicampus.it/eng/medicine-and-surgery/admissions</a>	Article 6
Publication merit ranking	within 06/04/2022 on <a href="http://www.unicampus.it/eng/medicine-and-surgery/admissions">http://www.unicampus.it/eng/medicine-and-surgery/admissions</a>	Article 7
Visualization of the written test	from 13/04/2022 onwards on <a href="https://unicampus.ilmiotest.it/">https://unicampus.ilmiotest.it/</a>	
Enrolment – I. expiry date	from 07/04/2022 to 20/04/2022, with the payment of the first instalment of the tuition fee	Article 8
Payment regional tax	within 26/07/2022	
Sending academic documents	within 19/09/2021 to the following email address <a href="mailto:studentoffice@unicampus.it">studentoffice@unicampus.it</a>	
Enrolment – II. expiry date	26/01/2023, with the payment of the second instalment of the tuition fee	
Enrolment – III. expiry date	13/04/2023 with the payment of the third instalment of the tuition fee	

The *reallocation* procedure will only be activated in case of places available.

By 21<sup>st</sup> September 2022, the presence of any remaining places will be published on the University's website <http://www.unicampus.it/eng/medicine-and-surgery/admissions>.



**SCHOLARSHIP RETENTION REQUIREMENTS**

Students who have been awarded the scholarship referred to in point 1 of this Call for Admission may retain the benefit in the years following the first one within the legal duration of the course if, **by 30<sup>th</sup> October** of each year:

- a) they have acquired at least the same number of Academic Credits - ECTS (European Credit Transfer System - Credito Formativo Universitario - CFU) as shown in the table hereunder:

Course year	n. Academic credits (ECTS/Obtainable Academic Credits)
II	42/53
III	106/123
IV	169/184
V	209/233
VI	272/292

- b) they have obtained a grade point average (GPA) in the exams relating to the total credits obtained at least equal to **27/30**.

In the event of forfeiture, revocation or withdrawal by students who have been awarded the scholarship, the remaining places will be allocated to those students who have obtained the highest number of ECTS with the highest average in the year preceding the year of allocation. This procedure, eventually regulated with a specific call for admission, is reserved in accordance with this call for admission, only for students enrolled at Campus Bio-Medico University of Rome in the academic year 2022/2023.

## **INSTRUCTIONS FOR THE WRITTEN TEST IN TELEMATIC MODE WITH REMOTE MONITORING**

1. Starting from March 11, 2022, each candidate will receive an email with technical instructions for the correct configuration of the computer used for the test (so-called check requirements).
2. It is the candidates responsibility to **perform the check requirements following the instructions received via email**, verifying **no later than March 15, 2022** that:
  - a) the Google Chrome plugin of Proctor Exam, necessary to ensure proper surveillance during the exam, is installed correctly;
  - b) the video, audio and Internet connection meet the minimum technical requirements necessary for the test to run correctly.
 Admission to the test is subordinated to the technical verification referred to in (a) and (b) above.
3. Each candidate, following the outcome of the checks referred to in paragraph 2, receives a further email with the link to access the test and an indication of the **time slot in which to connect** for the preliminary identification procedures.
4. Test day:
  - a) during the time slot indicated for identification, the candidate must activate the tools necessary for the control and the conduct of the examination and perform the identification operations, managed through an automated procedure. It is the responsibility of the candidate to have available a valid identification document;
  - b) the link to access the test is activated no earlier than 12.00 P.M (CET);
  - c) the supervisory staff supervises the proper conduct of the test via webcam.
5. In order to be able to take the admission test referred to this call for admission, it is necessary to have the following specific hardware and software requirements:
  - a) Hardware:
    - Computer/Laptop (PC or MAC) with webcam, microphone e speakers;
    - Smartphone/Tablet.**Both devices are simultaneously required for the performance of the test.**
  - b) Software and Internet connection:
    - Operating System Computer/Laptop: Windows 8 or subsequent systems, Linux, MAC-OS 10.12 or subsequent systems;
    - Browser: it is mandatory to use GOOGLE CHROME (version 81.0 or subsequent updates);
    - Internet connection: minimum upload and download speed of 1 Mbps.
    - Smartphone or tablet (Android min v.4.1 - IOs min. v.8) equipped with video camera.
6. It is also required to download an APP to the candidates smartphone/tablet (34MB) from Google Play or App Store. Connecting to a Wi-Fi line is recommended.
7. Candidates who arrive after the closing of the identification procedures are not allowed to access to the test, assuming no relevance to the justification of the delay. In case of technical problems on the test day (e.g. a breakdown in the network infrastructure), foreclosing candidates from completing the test, the University reserves the right to set up a special session exclusively for those candidates.

8. The exam platform records and saves every interaction (audio and video recording and screen sharing). During the course of the test, the Supervisory Committee will have access to all interactions of each candidate. The records will also be available to the Commission after the test is concluded. Data is acquired from servers located in the European Union and stored for a period of 12 months.
9. The examination platform provides a timer that automatically resets the actual time, in any case of anomaly. Therefore, any technical problems that may occur on individual computers will be handled promptly by the technical assistance staff.
10. It is absolutely forbidden the use of cell phones, calculators, tablets, online-enabled devices, printed books, manuscripts and notes during the test. The candidate can use some blank sheets of paper and a pen to perform calculations.

### Syllabus regarding the content of the Admission Test

For admission to the course a general knowledge in the fields of literature, history, philosophy, social and institutional studies is required, as well as the ability to analyse written texts, logical and mathematical reasoning skills.

The knowledge and the skills required are, however, those promoted by educational institutions that organize educational and teaching activities consistent with the Ministerial Programmes, especially in view of the State Examinations and also refer to the scientific disciplines of Biology, Chemistry, Physics, and Mathematics.

#### **Logical reasoning**

Assessment of the ability to properly use the language used in the courses and of logical reasoning in a consistent manner with the premises as set out in symbolic or verbal form through multiple-choice questions formulated with short sentences, discarding the incorrect, arbitrary, or less likely conclusions.

The questions will be based on scientific essays or narrative by classical or contemporary authors, or on texts appearing in newspapers or in general or specialized magazines. Questions will also focus on abstract cases or problems, whose solution requires the adoption of different forms of logical reasoning.

#### **Biology**

- The chemistry of living organisms.
- The biological importance of weak interactions.
- The organic molecules found in living organisms and their functions.
- The role of enzymes.
- The cell as the basis of life.
- Cell theory. Cell size. The prokaryotic and eukaryotic cell in animals and plants. Viruses.
- The cell membrane: structure and functions - transport through the membrane.
- Cellular structures and their specific functions.
- Cell cycle and cell division: mitosis and meiosis - chromosomes and chromosome maps.
- Bioenergetics.
- The energy assessment of cells: ATP.
- Redox reactions in living organisms.
- The energetic processes: photosynthesis, glycolysis, aerobic respiration and fermentation.
- Reproduction and heredity.
- Life cycles. Sexual and asexual reproduction.
- Mendelian Genetics. Fundamental laws and applications.
- Classical genetics: chromosome theory of heredity; patterns of heredity.
- Molecular Genetics: structure and replication of DNA, the genetic code, protein synthesis. The DNA of prokaryotes. The structure of the eukaryotic chromosome. Genes and regulation of gene expression.
- Human genetics: transmission of mono- and multifactorial characters; hereditary diseases linked to the X chromosome and autosomal
- Biotechnology: Recombinant DNA technology and its applications.
- Heredity and environment.
- Mutations. Natural and artificial selection. Evolutionary theories. The Genetic basis of evolution.
- Anatomy and physiology of animals and man
- Animal tissues
- Anatomy and physiology of systems and equipment in humans and their interactions.
- Homeostasis.

#### **Chemistry**

- The constitution of matter: states of matter; heterogeneous systems and systems homogeneous; compounds and elements.

- Ideal Gas Laws.
- The structure of the atom: elementary particles; atomic number and mass number, isotopes, electronic structure of atoms of different elements.
- The periodic system of elements: groups and periods; transition elements; periodic properties of the elements: atomic radius, ionization potential, electron affinity; metallic character. Relations between electronic structures, position in the periodic system of elements and properties.
- Chemical bonding: ionic bonding, covalent bonding, and metallic bonding. Energy binding. Polarity of bonds. Electronegativity.
- Fundamentals of inorganic chemistry: nomenclature and main properties of inorganic compounds: oxides, hydroxides, acids, salts.
- The chemical reactions and stoichiometry: molecular and atomic mass, Avogadro's number, mole concept and its application, stoichiometry elementary balance of simple reactions, the different types of chemical reaction.
- Solutions: solvent properties of water; solubility; The main ways of expressing the concentration of solutions.
- Equilibria in aqueous solution.
- Elements of chemical kinetics and catalysis.
- Oxidation and reduction: oxidation number, the concept of oxidant and reductant.
- Balance of simple reactions.
- Acids and bases: concepts of acid and base; acidity, neutrality or alkalinity of aqueous solutions; the pH. Hydrolysis. Buffer solutions.
- Fundamentals of organic chemistry: bonds between carbon atoms; formulas and rough texture, concept of isomerism. Aliphatic, alicyclic and aromatic hydrocarbons. Functional groups: alcohols, ethers, amines, aldehydes, ketones, carboxylic acids, esters, amides. Elements of nomenclature.

## Physics

- Measures: direct and indirect measures, fundamental and derived quantities, physical dimensions of quantities, knowledge of the metric system and the CGS System of Units, Technician (or Practical) (ST) and International (SI) units of measurement (names and relations between fundamental and derived units), and multiples (names and values).
- Kinematics: kinematic quantities, various motions with particular regard to uniform and uniformly accelerated motion; uniform circular motion; harmonic motion (for all motions: definition and relationship between the kinematic quantities related).
- Dynamic: vectors and vector operations. Forces, motion of forces around a point. Vector composition of forces. Definitions of mass and weight. Acceleration of gravity. Density and specific gravity. Law of universal gravitation, 1st, 2nd, and 3rd laws of motion. Work, kinetic energy, potential energy. Principle of conservation of energy. Impulse and momentum. Principle of conservation of momentum.
- Fluid mechanics: pressure, and its unit of measure (not only in the SI system). Archimedes' principle, Pascal's and Stevin's laws.
- Thermology and thermodynamics: thermometry and calorimetry. Specific heat, thermal capacity. Mechanisms of heat propagation. Changes of state and latent heats. Ideal Gas Laws. First and second law of thermodynamics.
- Electrostatics and electrodynamics: Coulomb's law. Electric field and potential. Dielectric constant. Capacitors. Capacitors in series and in parallel capacitors. Current. Ohm's law. Electrical resistance and resistivity, electrical resistors in series and in parallel. Work, Power, Joule effect. Generators. Electromagnetic induction and alternating currents. Effects of electric currents (thermal, chemical, and magnetic).

## Mathematics

- Sets of numbers and algebra: natural numbers, integers, rational and real numbers. Sorting and comparison; order of magnitude and scientific notation. Operations and their properties. Proportions and percentages. Powers with integer exponents, rational and their properties. Radicals and their properties. Logarithms (base 10 and base e) and their properties. Elements of combinatorics. Algebraic expressions, polynomials. Major

products, nth power of a binomial, factoring polynomials. Algebraic fractions. Algebraic equations and inequalities of the first and second grade. Systems of equations.

- Functions: fundamental notions about the functions and their graphical representations (domain, codomain, sign, maxima and minima, and monotonicity, etc.). Elementary functions: algebraic integer and fractional, exponential, logarithmic, trigonometric. Composite functions and inverse functions. Trigonometric equations and inequalities.
- Geometry: Polygons and their properties. Circumference and circle. Measurements of lengths, areas, and volumes. Isometries, similarities, and equivalences in the plan. Loci. Measure of angles in degrees and radians. Sine, cosine, tangent of an angle and their significant values. Trigonometric formulas. Solving triangles. Cartesian reference system in the plane. Distance between two points and the midpoint of a segment. Equation of the line. Terms of parallelism and perpendicularity.
- Distance of a point from a line. Equation of the circle, the parabola, hyperbola, of the ellipse and their representation in the Cartesian plane. Pythagorean Theorem. Euclid Theorem (first and second).
- Probability and Statistics: Frequency distributions depending on the type of character and the main graphical representations. Definition of random experiment and event. Probability and frequency.