



**2017 / 2018 ACADEMIC YEAR**

**NOTICE FOR ADMISSION TO THE MASTERS DEGREE PROGRAMME IN DATA SCIENCE AND SCIENTIFIC COMPUTING**

**1. SCOPE OF APPLICATION**

This notice governs admission for the 2017/2018 academic year to the inter-university Master's Degree Programme in Data Science and Scientific Computing (<http://dssc.units.it/>).

The Master's Degree in Data Science and Scientific Computing is established under Italian Ministerial Decree No. 270 of 22 October 2004, and relates to the Master's Degree in Mathematical-Physical Modelling for LM-44 engineering, pursuant to Italian ministerial decree of 16 March, 2007.

The above mentioned programme takes place at the following departments of the University of Trieste:

- Department of Mathematics and Geosciences,
- Department of Engineering and Architecture,
- Department of Economics, Actuarial, Mathematics and Statistics,
- Physics department,
- Department of Chemical and Pharmaceutical Sciences,

at the:

- Department of Mathematical, Computer and Physical Sciences at the University of Udine, and is organised in collaboration with:

- Scuola Internazionale di Studi Superiori Avanzati – SISSA,
- International Centre for Theoretical Physics – ICTP.

The course is bi-annual and includes two curricula called "Data Science" and "Computational Science and Engineering".

Teaching is provided in English.

Access is programmed in accordance with Art. 2 of Italian Law No. 264 of 2 August 1999.

Admission takes place following the selection procedures described in the following Article 5, according to the ranking order and within the limit of available places.

**2. AVAILABLE PLACES**

There are **30** places available for the first year of the course and these are broken down as follows:

for European Union citizens and those of equal status	reserved for foreign nationals / international citizens residing abroad
<b>27</b>	<b>3 *</b>

\* of which one is reserved for the Marco Polo project

For purposes of this notice, the following are treated as European Union citizens:

- Citizens of Norway, Iceland, Lichtenstein, the Swiss Confederation, the Republic of San Marino and the Holy See,
- Foreign nationals / internationals already regularly present in Italy for any purpose.

A candidate who holds dual citizenship, one of which is Italian or from another EU country, is treated as a member of the Community, pursuant to Italian Law no. 218, Art. Paragraph 19 (2).

Any places not used in the ranking of foreign nationals / internationals residing abroad will be used for the benefit of EU citizens and those of equal status. Places reserved for the Marco Polo project, if not covered, will be used primarily for the benefit of foreign nationals residing abroad and therefore of EU citizens and those of equal status.

The procedures for entry, residence and enrolment of foreign / international students in university courses for the 2017/18 academic year can be found at [www.studiare-in-italia.it/studentistranieri/](http://www.studiare-in-italia.it/studentistranieri/)

### 3. ADMISSION REQUIREMENTS

Admission is subject to meeting one of the following requirements:

- a) having a graduate degree (or a graduate degree from the former university system) or three-year university diploma, or equivalent degree obtained abroad;
- b) bachelor's Degree of at least 95 (ninety-five) /110;
- c) at least 60 university degree credits (CFUs) acquired in one or more of the following scientific disciplinary sectors (SSDs):
  - mathematics (MAT/\*),
  - computer science (INF/ 01),
  - information engineering (ING-INF / \*),
  - industrial engineering (ING-IND /\*),
  - civil engineering (ICAR / 01-09),
  - physics (FIS/\*),
  - statistics and mathematical methods for decisions (SECS-S / \*),
  - chemistry (CHIM / \*),
  - geophysics and earth physics (GEO / 10, GEO / 12),of which:
  - at least 12 in mathematics (MAT/ \* , SECS-S / 06) and
  - at least 6 in IT (INF / 01, ING-INF / 05).

\* All sectors of the same area apply (e.g. MAT / 01, MAT / 02, MAT / 03 etc.)
- d) adequate knowledge of the English language, certified by the internationally recognised B2 certification level or equivalent.

The eligibility of qualifications obtained abroad is assessed by the Admission Committee.

**Candidates must meet admission requirements within the deadlines specified in the following Art.6.**

### 4. HOW TO SUBMIT APPLICATIONS

The notice is published at the University Officer Register <http://www.units.it/ateneo/albo/>

The application for admission must be filed exclusively on-line, **within the deadline of 12:00 noon on 4 September 2017.**

When submitting the application, the candidate must be a graduate or, if he/she has not yet graduated, must have at least 150 university degree credits (CFUs).

In addition, applicants who are not yet in possession of English-language certification can apply and participate in the selection process, under the conditions described in Arts. 5 and 6.

To submit the application, interested parties must:

- connect to on-line service <https://esse3.units.it/Home.do> sign up, in the event they do not already hold university credentials, and proceed with authentication,
- Open the "Admission Test" link and sign up for the competition,
- send the documentation listed below, in pdf format, to [scmmffnn.studenti@amm.units.it](mailto:scmmffnn.studenti@amm.units.it) within the deadline of 4 September, 2017:
  1. self-certification of the degree and exams taken, or, in the case of students who have not yet graduated self-certification of enrolment and study plan, complete with exams taken and to be taken;
  2. brief description of teaching programs;
  3. curriculum vitae;
  4. other qualifications deemed useful for purposes of the evaluation (courses taken, relevant professional experience, etc.);
  5. English language certification (level B2 or equivalent), if available;
  6. valid identity document.

Candidates, graduates or degree candidates of this University must not send the self-certification referred to in point 1 as details of their career are sent to the Commission by the Office. However, graduates are required to verify that all the exams taken and credits obtained are in their on-line booklets and to report in a timely manner [scmmffnn.studenti@amm.units.it](mailto:scmmffnn.studenti@amm.units.it) exams / credits have not yet been recorded;

in the absence of reports, exams and credits that will be obtained in the booklet by 4 September, 2017 will be evaluated.

Candidates holding a foreign degree, instead of the self-certification provided for in point 1 above, must submit to the International Mobility Bureau (International Students) an original or a certified copy of the degree certificate, legalised or stamped with an Apostille (except for countries that are members of legalisation exemption conventions) and must be officially translated into Italian or English, including the list of exams. Documentation must include the scales of values to which the final score refers and under which exam scores are given, specifying the relevant minimum positive votes.

Non-EU citizens must also provide a residence permit.

Foreign nationals (non-EU members) resident abroad, before enrolling on-line in the competition following the procedure described above, must have submitted the application for pre-registration and the required the entry visa for study at the relevant Italian Embassy or Consulate in their country of residence.

Upon their arrival in Italy and no later than 4 September, 2017, they must deliver the completed documents from the Consulate / Embassy and present the receipt of the residence permit to the International Mobility Office (International Students).

A candidate who does not have access to the Internet can use the computers provided by the University in the Students' Office during business hours.

## 5. SELECTION PROCEDURE AND VALUATION CRITERIA

The selection of candidates is made by the Admission Committee, which is appointed by the Board of the Master's Degree in Data Science and Scientific Computing, consisting of three members of the Board itself, according to the Educational Regulations of the Programme.

The selection procedure takes place in two stages. The first stage involves the **verification of the curricular requirements** described under Art. 3. Successful candidates will be eligible for the second phase, which provides for an individual interview.

During the interview, the English language competence of candidates who are not yet in possession of the B2 certification is verified.

The procedure ends with the assignment of a score expressed in hundredths, consisting of the sum of the partial scores, which take into account:

- a) The final grade, for a maximum of 10 points or, if not yet graduated, the average of exam grades, weighted with the corresponding credits, up to a maximum of 6 points,
- b) The studiorum curriculum, in particular credits obtained and the assessments of exams in characteristic sectors, for a maximum of 30 points,
- c) additional certificates deemed congruent with the disciplinary areas of the course for up to 10 points,
- d) The result of the individual interview, for a maximum of 50 points. The interview can take place in person or by means of video-conferencing (using appropriate and popular software tools). During the interview, in addition to the curriculum vitae, actual basic knowledge in mathematical, informatics and probabilistic disciplines will be evaluated. The course website provides a syllabus that briefly describes the required knowledge. The interview will generally be conducted in English.

**The selection process will take place in the week from 11 to 15 September 2017** for all candidates, including graduates, according to the timetable that will be published on the specific master's degree programme information page, which can be accessed following the path described below, and on the Programme's website <http://dssc.units.it/>

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Information on how to submit applications and on the selection process can be obtained from the following offices:

- Students' Office for Scientific Technology - Life and Health Sciences  
e-mail: [scmmffnn.studenti@amm.units.it](mailto:scmmffnn.studenti@amm.units.it)
- International Mobility Office (International Students)  
e-mail: [stranieri.studenti@amm.units.it](mailto:stranieri.studenti@amm.units.it)

The Offices are located in the right wing of the central building of the University, in piazzale Europa, 1 - Trieste. The location of information points/windows, access methods and opening times to the public can be found on <http://www.units.it> *Studenti>>Segreteria Studenti>>Orari Segreterie (Students>>Students' Office>>Opening times).*

All notices, including the calendar of individual interviews, and other related acts will be posted on the "Additional Programme Specific Information" page, accessible from the home page [www.units.it](http://www.units.it) > immatricolazioni a.a. 2017/2018 (Enrolments for the 2017/2018 academic year), by means of the link in the column "access info" of the programme. This announcement will also be published at the same address and the form will be available for download.

## 6. FINAL RANKING

Ranking will be formulated on the basis of the score assigned according to the criteria described in Art. 5. A minimum score of 60 (sixty) on 100 is required to be admitted to the list.

In the event of equal scores, graduate candidates are given precedence over undergraduates. In the event of further parity, the candidate with the highest final degree grade or, for graduates, with the highest average of exams, is weighted with the corresponding credits. Where further parity occurs the younger age candidate takes priority.

The ranking will be published on **19 September 2017** at the Official University Register, which can be accessed at <http://www.units.it/ateneo/albo>

Candidates who are not yet in possession of the Bachelor's degree and / or English-language certification will be included in the ranking on a **reserve list**. The reserve list will be released on obtaining the masters' degree, which must take place **by December 2017** with a score of at least 95/110, and / or the B2 level certification, which must be submitted **by 19 January 2018**.

The above publications have official reporting value in all respects. Personal communications are not given.

The ranking will also be published on the "Additional Programme Specific Information" page, accessible from the home page [www.units.it](http://www.units.it) > immatricolazioni a.a. 2017/18 (Enrolments for the 2017/2018 academic year), by means of the link in the "access info" column of the programme.

## 7. ENROLMENT

Enrolments will be accepted until all available places are filled, according to the ranking order.

Candidates admitted, including those admitted on the reserve list, must register according to the procedure described below within the deadline of 29 September 2017, subject to the loss of the right to be enrolled.

### ENROLMENT PROCEDURE

**The application for enrolment must be filed on-line only, by 12:00 noon on the expiry date and must be completed with payment of the first instalment of taxes and contributions by the same date.**

Before enrolling, read the instructions published on the page carefully <http://www2.units.it/immatricolazioni/>

To enrol, candidates who are admitted must:

- 1) access the procedure from the home page <http://www.units.it> > immatricolazioni a.a. 2017/18 (2017/2018 academic year enrolments) and log in using the credentials (username and password) received when signing up for the selection process;
- 2) proceed with the enrolment by providing the required data and attachments;
- 3) Pay the first instalment of fees and contributions directly on-line with a credit card (also prepaid). Alternatively, only if it is not possible to pay by credit card on-line, print out the prepaid MAV and make payment directly at the bank.

Payment must be made within the time limit for enrolment: In order to comply with the above time limit, the date on which the bank makes the payment is valid and not the date where the payment may be required by means of internet banking or bank account or telephone banking services. In the event of intending to use such services, please be aware of necessary time-frames for completing the transaction, as no registration applications will be accepted with payments made beyond the cut-off deadline, even if the order date is prior to such deadline.

No other payment methods are allowed.

In addition, students who are not members of the European Union, within the terms of their enrolment, must submit a valid residence permit to the Student Secretariat.

Upon the expiry of the deadline of 29 September, if there are still available places and there are still no eligible candidates, candidates will be selected from **the reserve list**. The relevant notice will be published on **2 October 2017**, at the address indicated in Art.5.

Candidates admitted to the reserve list must complete the registration in accordance with the terms and within the following time limits, under penalty of losing the right to enrolment:

- Students coming from other universities, who are admitted to the reserve list due to their graduate degree, must access on-line services with their own credentials, open the "Academic certificates" link and enter the date and final grade of the degree **by 9 January 2018** (for graduates of this University the above data will be obtained by the office);
- Candidates, admitted in the reserve list due to their B2 level English language certification must send this certification in pdf format together with an identity document [scmmffnn.studenti@amm.units.it](mailto:scmmffnn.studenti@amm.units.it) **by 19 January 2018**.

Candidates who have not completed the registration, due to failure in meeting the requirements, are eligible for the repayment of the first instalment of taxes and contributions paid.

## 8. REOPENING OF THE ANNOUNCEMENT

If the 30 places are not booked, a reopening of the announcement is provided for.

The relevant notice, with the terms and conditions, will be published on the programme information page at the address indicated in Art. 5.

## 9. ACCESS TO RECORDS, PROCESSING OF DATA, HEAD OF THE ADMINISTRATIVE PROCEDURE

The collected personal data will be processed, within the institutional aims of the University and this particular competition procedure, in particular with computer tools, pursuant to Art. 13 of Italian Legislative Decree 196/2003. The University may process personal data relating to the performance of its institutional functions without the prior consent of the person concerned within the limits of the applicable law.

The above data may also be used, in aggregate form and for statistical purposes, also by the Ministry of Education, University and Research.

The provision of data is mandatory for purposes of defining the ranking, under penalty of being excluded from the competition.

Students can exercise their right of access to the data provided in accordance with Art. 7 of Italian Legislative Decree 196/2003.

Candidates are granted access to the documentation of the competition procedure, according to the current law (Law 241/90 and Italian Presidential Decree 184/2006).

The data controller is the University of Trieste - P. le Europa, 1 - 34127 Trieste.

Pursuant to Italian Law 241/90, the Head of the Administrative Procedure is the Head of the Secretarial Office of the Scientific Technology Area - Life and Health Sciences of the University of Trieste.

Trieste, 7 luglio 2017