



UNIVERSITÀ DEGLI STUDI DI MILANO

Institutional, International and Training Issues Area

University Training and Permanent Training Division

FUFP/2 RC

Call for applications for admission to Master's programmes starting in the second semester of academic year 2017-18

THE RECTOR

- Having regard to art. 6 of Law no. 341 dated 19 November 1990;
- Having regard to art. 1, par. 15, of Law no. 4 dated 14 January 1999;
- Having regard to Ministerial Decree no. 270 of 22 October 2004 containing new rules governing the educational autonomy of Universities and substituting Ministerial Decree no. 509 of 3 November 1999;
- Having regard to Milan University Teaching Regulations issued through Rector's Decree on 12 June 2008, in particular article 31 specifying the rules for Master's programmes;
- Having regard to the 26 October 2017 decision of the Board of Directors, pursuant to approval by the Academic Senate on 17 October 2017, through which the activation of the following Master's programmes was approved

HEREBY DECREES

The activation for academic year 2017/2018 (starting in the second semester) of the following Master's programmes:

First level Master's programmes

- Nursing coordination and management of the organ and tissue transplant process, from donation to transplantation;
- Palliative care;
- Publishing;
- Physiotherapy and respiratory rehabilitation;
- Promoting and teaching Italian language and culture to foreigners, PROMOITALS;



- Hand rehabilitation;
- Cardiovascular ultrasound techniques;

Second level Master's programmes

- Bioinformatics and functional genomics;
- Data science for economics, business and finance;
- Neuromuscular diseases: diagnosis, treatment and research - muscular and multisystem aspects;
- Labour Law and industrial relations;
- Clinical echocardiography;
- Pharmacy and oncology pharmacy;
- Pharmacovigilance;
- Management of healthcare and social welfare establishments;
- Hybrid procedure in persistent AF alone.

Information regarding learning objectives, employment opportunities, places available, admission requirements, the selection procedure, programme organization, enrolment fees and any other specifications regarding individual programmes is contained in the annex, which is an integral part of the present announcement.

Those holding an academic qualification among those indicated for each Master's programme or any equivalent qualification, even one awarded by a foreign University, may apply for admission. The suitability of the foreign qualification is assessed by the examining board set up for admission to each Master's programme, in accordance with the relevant laws in Italy and in the country in which the qualification was awarded, and with international agreements governing the suitability of qualifications for access to further education. Those without a university degree but holding an equivalent academic qualification pursuant to legislation may also apply for admission.

Enrolment in Master's programmes is incompatible with enrolment in other study programmes (first or second cycle degree programmes, doctoral research programmes, postgraduate



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specializations, Master's programmes). Attendance for the various course activities in the Master's programmes is mandatory. Only those who have attended at least two thirds of the planned training activities may take the final exam.

Altogether, the 1,500 hours of training activity in each programme, along with the time dedicated to study and personal preparation, will normally amount to 60 university credits (CFU).

Application for admission

Applications must be submitted by **no later than 1pm on 1 February 2018** as follows:

- 1) Register on the University portal through the page <https://www.unimi.it/registrazione/registra.keb>. This operation is not required of those already registered on the portal or in possession of University login credentials, such as Milan University students or graduates (who can proceed directly to the next step);
- 2) Use your credentials to access the SIFA online services (<http://www.unimi.it/apps/hpsifaprivata.xsl>);
- 3) Submit your application for the programme by accessing the SIFA online services> *Servizi di ammissione* (Admission services)> *Master* (Master's programmes) (<http://studenti.divisi.unimi.it/ammissioni/a/master/checkLogin.asp>);
- 4) Pay the non-refundable selection fee of € 50.00 (Regulations on fees, dues, exemptions and scholarships for a.y. 2017/2018) by credit card or using the MAV (notice of payment) form generated by the online service. Those residing abroad can only pay by credit card.

Candidates must also present the following documentation at the Office for Doctoral and Master's Programmes (*Ufficio dottorati di ricerca e master universitari*) by the **1 February 2018 deadline**, under penalty of exclusion from the selection procedure:

- a) copy of the receipt obtained at the end of the online application procedure;
- b) a detailed CV (specifying the degree held) for use in the selection process and the awarding of any scholarships.



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Besides submitting the above, those holding a non-university academic qualification awarded in Italy, equivalent by law to a university degree, must also present a certificate of the qualification awarded and of their secondary school diploma. Besides submitting the above, those holding a foreign academic qualification must also present a degree certificate in Italian or English reporting the exams taken and respective marks.

The Office for Doctoral and Master's Programmes (*Ufficio Dottorati di ricerca e master universitari*), via Festa del Perdono no. 7, 20122 Milan, is open to the public Monday to Friday from 9am to 12 noon. The documents may also be sent by fax (02 50312300) or e-mail (master@unimi.it).

Enrolment is automatically finalized upon completion of all steps required.

EU applicants may self-certify that they meet the admission requirements and the conditions for being awarded a scholarship.

Ranking

The ranking of successful candidates will be published on the University website through the online SIFA Services (http://www.unimi.it/hpsifa/nonProfiledPage_100.html). To view the ranking select *Graduatorie Ammissioni Corsi post laurea (Postgraduate Programme Ranking)* > *Graduatorie Master (Master's Programme Ranking)*. Publication of the ranking list serves as official notification: no personal communication will therefore be sent out to candidates.

Enrolment

Those admitted to the programme must enrol **within 5 working days** of the publication of the final ranking using the *Online Services (servizi di immatricolazione ed iscrizione > immatricolazioni > Master* <http://www.unimi.it/apps/hpsifaprivata.xsl>).

At this time, students must also pay the **€ 1,516.00** first instalment of the enrolment fee; payment may be made by credit card or using the MAV (notice of payment) form generated by the online service. Those residing abroad can only pay through credit card.

Those holding a foreign academic qualification must submit documents (original or authenticated copies) so that the qualification may be assessed (only in terms of admission to the selected Master's programme): the academic qualification, its official translation



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authenticated in accordance with legislation in the country where it was issued, and a Statement of Validity (*Dichiarazione di Valore in Loco*) issued by the Italian diplomatic office in the country where the qualification was awarded. Candidates who were awarded the qualification in an EU State may submit, instead of the translation and Statement of Validity, a Diploma Supplement authenticated pursuant to current legislation and, alternatively, some other statement of validity issued by an ENIC_NARIC centre or by the relevant foreign diplomatic office in Italy.

At the time of enrolment, foreign candidates must deliver a copy of their Italian tax code number (*codice fiscale*) to the Office for Doctoral and Master's Programmes (*Ufficio dottorati di ricerca e master universitari*). Candidates from outside the EU must also show their permit of stay (original copy).

If the enrolment fee is paid by persons other than the student or by an Institution, Agency or Company, these must make the payment in the same way and in respect of the deadlines indicated above, on pain of exclusion from the programme. As the programme is part of the University's institutional activities, no VAT is applied to the enrolment fee and candidates will not receive an invoice.

Those who decide to forgo enrolment must promptly notify the Office for Doctoral and Master's Programmes (*Ufficio dottorati di ricerca e master universitari*) in writing by fax (02 50312300) or e-mail (master@unimi.it).

Payment of the second instalment

Payment of the second instalment must be made by **31 July 2018** using the online service at *Servizi SIFA on-line > Servizi di segreteria*. Payment may be made by credit card or with a MAV bank form.

Late payment of the second instalment will be subject to a penalty fee of € 30.00 for payments made up to 15 days after the deadline and of € 60.00 thereafter (Regulations regarding fees, dues, exemptions and scholarships for academic year 2017/2018).



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Withdrawal

Withdrawal from the Master's programme must be notified in writing. If withdrawal occurs prior to the actual start of the programme, any fees paid will be reimbursed, less a 10% charge covering general and administrative costs. Studies cannot be interrupted for any reason whatsoever.

Personal loans

Pursuant to the agreement between the University of Milan and Banca Intesa Sanpaolo Spa and until available funding runs out, those enrolled in Master's programmes at the University of Milan can apply for personal loans of up to € 10,000.00 (split into two € 5,000.00 instalments). The terms and conditions for obtaining the loan can be found on the University's website at:

<http://www.unimi.it/studenti/master/16834.htm>.

Further information and privacy

Further information on the organization of Master's programmes may be found on the University's website at (<http://www.unimi.it/studenti/master/1188.htm>).

Pursuant to legislative decree 196/2003, personal data will be processed in observance of your privacy and all data collected will be processed solely in connection to the activities and organization of the programme and in managing relations with the University in accordance with current legislation.

Milan, 6 December 2017

THE RECTOR

(Prof. Gianluca Vago)

Signed Giuseppe De Luca

Reg. no. 4673/2017 of 11 December 2017.



First level Master's programmes

First level Master's programme in Nursing coordination and management of the organ and tissue transplantation process from donation to transplantation

Learning objectives

The master's programme is run jointly with the Transplant Foundation NGO (*Fondazione Trapianti Onlus*).

The programme aims to equip students with the theoretical knowledge and practical skills, methods and tools they will require in order to provide the specialist help and coordination involved in the various stages of the organ and tissue transplantation process: from donation through removal, transplantation and follow up. The skills acquired will enable students to work in multidisciplinary teams in hospital and non-hospital settings within regional and national transplant networks.

The Master's will provide students with the following knowledge and skills:

- Knowledge of the clinical conditions and pathologies in which, in their advanced stages, a transplant is required;
- Application of the principles of the donation process in hospitals, in the local community and in hospices;
- Care-giving throughout the process of donation, transplantation and follow up;
- Multidisciplinary assessment and management of the donor and provision of support to the family;
- Interaction with not for profit private and public hospitals and transplant network;
- Communication with healthcare workers, families, and with associations involved in the process, from donation to transplantation and follow up;
- Application of nursing research methods and of EBP and EBN specific to healthcare and management of the clinical and organizational process, from donation to transplantation and follow up;



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- Analysis of care, clinical and research cases in terms of professional and ethical responsibilities in multidisciplinary teams and in transplant networks.

Employment opportunities

Employment can be found mainly in the following sectors:

- Healthcare establishments and public and private hospitals (critical care departments, specialist medical-surgical areas, transplant coordination departments), particularly in coordination offices set up following the reorganization of the transplant network;
- National operational transplant centre;
- Voluntary organizations and associations which support donation (organs and tissues and those that provide care to donors and to transplantees).

Places available

The number of places available for admission to the programme is **20**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.

Admission requirements

The programme caters to those with first cycle degrees in one of the following classes, or in one of the corresponding classes of former Ministerial Decree 509/99:

- L/SNT1 Nursing and midwifery (first cycle degree programme in Nursing and Pediatric Nursing only).

Holders of legally equivalent non-university qualifications can also apply for admission.

Selection process

Admission to the programme is through a written multiple-choice exam and an interview aimed at assessing the candidate's analytical, problem-solving and decision-making skills and their motivations, as well as assessment of their CV.



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Evaluation criteria:

- Written exam: 40%;
- Interview: 40%;
- CV assessment: 20% (the following will be considered: academic and professional qualifications 5 points; publications 3 points; *continuing medical education (CME) courses* lasting at least one day in the last three years 2 points; one year's minimum experience in Operative Units or in critical medical-surgical and transplant services 5 points; basic computing skills 5 points).

Candidates must score at least 50/100 for admission.

The selection process will take place **at 9am on 14 February 2018**, at the Padiglione Valetudo, IRCCS Fondazione Cà Granda Ospedale Maggiore Policlinico (location of the first cycle degree in Nursing), via Pace, 9, 20122 Milan.

Programme organization

The programme will be held from **14 March 2018 to 14 March 2019** at the IRCCS Fondazione Cà Granda Ospedale Maggiore Policlinico, via F. Sforza no. 35, 20122 Milan.

The programme entails lectures and other forms of training, such as workshops, practical activity and seminars, for a total of **507 hours** (28 hours of which are provided in the form of e-learning).

Lectures are broken down into the following modules:

- Promotion of organ donation in society and continuity of treatment vis à vis the patient and their families during the transplantation process;
- Procurement management and coordination (coordination and networks);
- Planning and integrated management of the clinical transplant process: transplant from deceased donor;
- Planning and integrated management of the clinical transplant process: transplant from living donor;



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- Nursing coordination and leadership in the clinical and organizational process, from donation to transplantation;
- Models for effective interaction in communication in the clinical and organizational process from donation to transplantation;
- The research process: theoretical and practical procedures.

A traineeship period of **250 hours** will follow.

At the end of each module, students will undergo a series of classroom and online assessments in the form of tests and questionnaires, aimed at testing the skills and knowledge they have acquired.

The final Master's exam consists of the presentation and discussion of a thesis on a topic agreed with the course coordinator. The work, individual or in collaboration with others, must be submitted in hard copy as well as on a CD or DVD.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The Master's qualification is worth **60 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 2,600.00** (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to **€ 1,516.00**, to be paid by the enrolment deadline;
- Second and final instalment, amounting to **€ 1,100.00**, to be paid by **31 July 2018**.

The first instalment includes stamp duty.

Scholarships

Ten (10) scholarships will be awarded, each one amounting to **€ 800.00**, funded by the Transplant Foundation NPO (*Fondazione Trapianti Onlus*), in the form of a partial exemption



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from payment of the second instalment of the enrolment fee. The scholarships will be awarded to the first ten candidates admitted to the programme, in accordance with the final ranking for admission to the same.

Programme Organizational secretariat

Transplant Foundation NPO (*Fondazione Trapianti Onlus*)

Regional Transplant Referral Centre (*Centro Riferimento Regionale Trapianti*)

IRCCS Fondazione Cà Granda Ospedale Maggiore Policlinico

via F. Sforza no. 35, 20122 Milan

tel. 02.55034015 fax 02.55034086

e-mail: master@fondazionetrapiantiionlus.org

For administrative enquiries

Office for Doctoral and Master's Programmes (*Ufficio Dottorati di ricerca e master universitari*)

Open to the public Monday to Friday 9am-12 noon

via Festa del Perdono no. 7, 20122 Milan

tel. 02.50312302 fax 02.50312300

e-mail: master@unimi.it



First level Master's programme in Palliative Care

Learning objectives

The programme aims to train professionals who:

- possess a good level of knowledge and the ability to apply the clinical research methods specific to palliative care medicine in the end stages of life;
- know and know how to apply the principles of palliative care in the local community, hospitals and hospices;
- know how to interact with local not for profit private and public social and healthcare services.

The training will provide students with a knowledge of those illnesses in which the terminal stage in which palliative care is provided forms part of the illness's natural progression. It will help them to develop the ability to communicate in an appropriate manner with people with end of life care needs and with their families, give them the skills that they will need to work as members of cross-disciplinary and cross-professional teams, as well as the skills and experience of end of life care and bereavement support.

Employment opportunities

The course provides students with the skills required to work in different areas of care-giving, including care in Primary Care Units, in the home, in hospices, and in local public and private services (both for profit and not for profit).

Places available

The number of places available for admission to the programme is **25**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.



Admission requirements

The programme caters to those with first cycle (*laurea*) degrees in one of the classes of former Ministerial Decree 270/2004, or in one of the corresponding classes of former Ministerial Decree 509/99:

- L-24 Psychology;
- L-39 Social services;
- L/SNT1 Nursing and midwifery;
- L/SNT2 Rehabilitation healthcare professions (first cycle degree programmes in Physiotherapy, Speech and Language Therapy, Psychiatric Rehabilitation Techniques and Childhood Neuro- and Psychomotricity only);
- L/SNT4 Prevention healthcare professions (first cycle degree programme in Healthcare only).

Holders of legally equivalent non-university qualifications can also apply for admission.

Selection process

Admission to the programme is through a written multiple-choice exam and an interview aimed at assessing the candidate's analytical, problem-solving and decision-making skills and their motivations, as well as assessment of their CV, which must be set out according to the template available to download from the University website at the following page:

<http://www.unimi.it/studenti/master/114424.htm>

Evaluation criteria:

- Written exam: 40% (the pass mark for the written exam is 6 out of 10);
- Interview: 40%;
- CV assessment: 20% (the following will be considered: academic and professional qualifications 5 points; publications 3 points; *continuing medical education (CME) courses* lasting at least one day in the last three years 2 points; one year's minimum experience



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in Operative Units or in palliative care services in the last three years 5 points; basic computing skills 5 points).

Candidates must score at least 50/100 for admission.

The selection process will take place at **9am on 19 February 2018**, at the Interdepartmental Centre for Palliative Care (*Centro interdipartimentale per le Cure palliative*), Cascina Brandezzata (rooms 2 and 3, first floor), via Ripamonti no. 428, 20141 Milan.

Programme organization

The programme will be held from **14 March 2018 to 13 March 2019** at the Interdepartmental Centre for Palliative Care, Cascina Brandezzata, via Ripamonti no. 428, 20141 Milan.

The programme entails lectures and other forms of training, such as practical activity and case studies, for a total of **513 hours** (50 hours of which are provided in the form of e-learning).

Lectures are broken down into the following courses:

- History of palliative care and pain therapy, principles of bioethics in palliative care, the role of volunteers;
- Evaluation and management of signs and symptoms in complex clinical cases in the terminally ill adult and/or child being cared for;
- Pain therapy in the terminally ill adult and/or child being cared for;
- Working in cross-professional teams and the organizational aspects of palliative care in patients with incurable and terminal illnesses (network, care in the home, hospice care);
- Communication and relationships in palliative care.

This will be followed by a traineeship period of **500 hours** (125 hours of which are provided in the form of e-learning) at establishments that provide palliative care services for patients who are not self-sufficient.

At the end of each module, students will undergo a series of classroom and online assessments in the form of tests and questionnaires, aimed at testing the skills and knowledge they have acquired.



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The final Master's exam consists of the discussion of a thesis on a topic agreed with the course coordinator. The work, individual or in collaboration with others, must be submitted in hard copy as well as on a CD or DVD.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The master's qualification is worth **60 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 2,600.00** (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to **€ 1,516.00**, to be paid by the enrolment deadline;
- Second and final instalment, amounting to **€ 1,100.00** to be paid by **31 July 2018**.

The first instalment includes stamp duty.

Programme organizational secretariat

University of Milan

Interdepartmental Centre for Palliative Care (*Centro interdipartimentale per le Cure palliative*), Cascina Brandezzata

via Ripamonti no. 428, 20141 Milan

Dott. Rocco Ditaranto

tel. 02.57489943 fax. 02.94379200

e-mail: rocco.ditaranto@unimi.it

For administrative enquiries

Office for Doctoral and Master's Programmes (*Ufficio Dottorati di ricerca e master universitari*)



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tel. 02.50312302 fax 02.50312300

e-mail: master@unimi.it



First level Master's programme in Publishing

Learning objectives

The programme is organized in collaboration with the Arnaldo and Alberto Mondadori *Foundation* and with the Italian Publishers Association.

The Master's programme aims to equip students with the skills required to carry out publishing activities in the complex and multifunctional field of book publishing, in both private and public sectors. The programme also aims to provide students with the basic intellectual skills involved in editorial mediation within the current framework of book culture: the comprehensive programme will develop not only students' critical knowledge of the cultural system of publishing, but also their juridical-legal skills, providing them with the economic tools for analysing markets from the perspective of production and consumption, and editorial skills to keep pace with innovative digital technologies. The programme focuses constantly on refresher activities and on ongoing advanced training.

Employment opportunities

Possible employment opportunities include editing roles in book companies and publishing departments of public and private companies, as well as roles in communication and marketing, copyright departments and press offices.

Those with a Master's qualification can also pursue careers in market analysis for the book production and distribution chain, digital applications of multimedia communication, book promotion events and as self-employed professionals.

Places available

The number of places available for admission to the programme is **26**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.



Admission requirements

The programme caters to those with first cycle (*laurea*) degrees in one of the following classes of former Ministerial Decree 270/2004, or in one of the corresponding classes of former Ministerial Decree 509/99:

- L-1 Cultural heritage;
- L-3 Visual arts, music, performing arts and fashion studies;
- L-4 Industrial design;
- L-5 Philosophy;
- L-6 Geography;
- L-10 Humanities;
- L-11 Modern languages and cultures;
- L-12 Applied languages;
- L-13 Biology;
- L-14 Legal services;
- L-18 Economics and management;
- L-19 Education sciences and teacher education;
- L-20 Communication studies;
- L-24 Psychology;
- L-27 Chemistry;
- L-30 Physics;
- L-31 Computer science;
- L-32 Environmental sciences;
- L-33 Economics;



- L-35 Mathematics;
- L-36 Political science and international relations;
- L-40 Sociology;
- L-42 History;
- L-43 Conservation and restoration of cultural heritage.

To be admitted onto the programme, candidates must have an excellent level of written Italian, good knowledge of at least one foreign language (English, French, German and Spanish), and adequate IT skills.

Candidates must also be able to prove their interest in and justify their reasons for wanting to pursue a career in the publishing sector.

Selection process

Admission to the Master's programme is determined on the basis of the following tests, divided into two stages.

First stage:

- Multiple-choice exam;
- Technical exam (writing of texts);
- Written test;

Evaluation criteria:

- The multiple-choice exam will have a 25% bearing on the student's position in the ranking list;
- The technical exam will have a 15% bearing on the student's position in the ranking list;
- The written test will have a 25% bearing on the student's position in the ranking list;
- Assessment of the CV will have a 5% bearing on the student's position in the ranking list.

The following will be considered:



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- The final degree examination mark (up to 3 points) in accordance with the following:

Final degree mark - points:

- 110 cum laude: 3
 - Between 105 and 110: 2
 - Between 100 and 104: 1
- Additional academic qualifications and/or professional experience (up to 2 points);

Candidates who obtain a minimum score of 40/70 in the first stage of the selection process are admitted to the **second stage** in the selection process which involves:

- an evaluation of their knowledge of a foreign language;
- an interview to ascertain their motivations and aptitude.

Evaluation criteria:

- Knowledge of a foreign language will have a 10% bearing on their position in the ranking list;
- The interview will have a 20% bearing on their position in the ranking list.

Candidates must score at least 65/100 for admission.

The selection process will take place at **9am on 12 February 2018** at the Teaching Sector of the University of Milan (room 431), via Festa del Perdono no. 7, 20122 Milan.

Programme organization

The programme will be held from **12 March 2018 to 31 January 2019** at the Arnaldo and Alberto Mondadori Foundation, via Riccione no. 8, 20156 Milan.

The programme entails lectures and other forms of training, such as workshops, for a total of **500 hours**. Lectures are divided into the following four modules:

- Publishing culture;



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- Scenarios and structures of the publishing industry;
- Jobs in publishing;
- Economics of publishing firms.

The programme also entails a traineeship of **480 hours**.

During the programme, students' skills will be assessed through written exams and questionnaires.

The final Master's exam consists of the examination and discussion of an assignment to verify the professional skills acquired by the student in the programme, including traineeships.

The course exams and final exam are scored out of thirty points. Should the student subsequently enrol in a second cycle degree programme, he/she may request that any credits acquired for modules in sectors L-FIL-LET/11, IUS/10, SPS/08 and SECS-P/07 be recognized by the relevant academic board.

The master's degree is worth **72 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 5,000.00** (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to **€ 1,516.00**, to be paid by the enrolment deadline;
- Second and final instalment, amounting to **€ 3,500.00**, to be paid by **31 July 2018**.

The first instalment includes stamp duty.

Scholarships

Four (4) scholarships will be awarded: 2 scholarships amounting to **€ 2,000.00** and **€ 1,000.00** respectively, funded by the Italian Publishers Association, and 2 scholarships amounting to **€ 1,500.00** each, funded by the *Confucius* Institute of the University of Milan, in the form of a partial exemption from payment of the second instalment of the enrolment fee.



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The scholarships will be awarded to the first four candidates admitted to the programme, in accordance with the final ranking for admission to the same, starting with the scholarships with the highest value, provided that the students demonstrate their willingness to take part in activities to support the Master's programme (assistance, preparation of hard copy and digital materials, administrative activities, etc.) and possess the necessary skills.

Applications for scholarships must be submitted by the deadlines and according to the procedures specified on the website of the Mondadori Foundation

(www.fondazionemondadori.it).

Programme Organizational secretariat

Arnoldo and Alberto Mondadori Foundation

via Riccione no. 8, 20156 Milan

tel. 02.39273061 fax 02.39273069

e-mail: master@fondazionemondadori.it

For administrative enquiries

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tel. 02 50312302 fax 02 50312300

e-mail: master@unimi.it



First level Master's programme in Physiotherapy and respiratory rehabilitation

Learning objectives

The programme aims to train physiotherapists with expertise in physiotherapy techniques and respiratory rehabilitation through a theoretical-practical training programme of excellence. The programme deepens knowledge of the basic sciences, of pathophysiology mechanisms and of clinical sciences, providing the basis for acquiring new technical-operative skills and for functional evaluation in the area of physiotherapy and respiratory rehabilitation, in line with current trends and prospects in the international scientific community.

Employment opportunities

The programme aims to form the following professional figures:

- Experts in physiotherapy and rehabilitation in respiratory pathologies using different methods of intervention: pulmonary rehabilitation, clearing bronchial passages, invasive and non-invasive mechanical ventilation, physical exercise, education and counselling;
- Experts in the functional assessment of the cardiorespiratory apparatus and in organizing the physiotherapy programme in various fields of application (prevention, care, rehabilitation, palliative care);
- Experts in physiotherapy and respiratory rehabilitation within research protocols.

Places available

The number of places available for admission to the programme is **16**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.

Admission requirements

The programme caters to those with first cycle degrees in class L/SNT2 Rehabilitation healthcare professions (degree programmes in Physiotherapy only) of former Ministerial Decree 270/2004, or the corresponding class of former Ministerial Decree 509/99.



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Those without a university degree but holding an equivalent academic qualification pursuant to legislation may also apply for admission.

Selection process

Admission to the programme is through a written exam and CV assessment.

Evaluation criteria:

- Written exam: up to 60 points (consisting of open questions on: translation of a scientific article to assess the candidate's knowledge of scientific English, IT skills and knowledge of topics addressed by the Master's programme);
- CV assessment: up to 40 points (the following will be considered: other academic qualifications; teaching activity; traineeship tutor; scientific publications; computer literacy; English language skills; professional experience; attendance of refresher courses specific to professional activity).

Candidates must score at least 40/100 for admission.

The selection process will take place at **10am on 12 February 2018 at the Department of Medical-Surgical and Transplant Pathophysiology (*Dipartimento di Fisiopatologia medico-chirurgica e dei trapianti*, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico (Padiglione Zonda classroom), via A. Lamarmora no. 5, 20122 Milan.**

Programme organization

The Master's programme will be held from **8 March 2018 to 8 February 2019** at the Department of Medical-Surgical and Transplant Pathophysiology (*Dipartimento di Fisiopatologia medico-chirurgica e dei trapianti*), Fondazione IRCCS Ca' Granda - Ospedale Maggiore Policlinico (Thoracic Surgery Unit - *U.O. Chirurgia Toracica*), via F. Sforza no. 35, 20122 Milan.

The programme comprises lectures and other forms of training such as practicals and guided study for a total of **549 hours**.

Lectures are divided into the following modules:

- Anatomy and physiology of the respiratory system;



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- Functional and instrumental evaluation of the respiratory system;
- Pathologies of the respiratory system;
- Invasive and non-invasive mechanical ventilation in respiratory pathologies;
- Surgery;
- Rehabilitation and respiratory physiotherapy.

This will be followed by a traineeship period of **250 hours**.

At the end of each module, students will prepare a series of written assignments so that the skills and knowledge they have acquired throughout the programme can be assessed.

The final Master's exam consists of the dissertation of a written assignment.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The Master's qualification is worth **60 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 2,582.00** (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to **€ 1,516.00**, to be paid by the enrolment deadline;
- Second and final instalment, amounting to **€ 1,082.00** to be paid by **31 July 2018**.

The first instalment includes stamp duty.

Programme Organizational secretariat

Department of Medical-Surgical and Transplant Pathophysiology (*Dipartimento di Fisiopatologia Medico-Chirurgica e dei Trapianti*)

Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico

Thoracic Surgery Unit (*U.O. Chirurgia Toracica*), Padiglione Zonda, 3rd floor



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First level Master's programme in Promoting and Teaching Italian Language and Culture to Foreigners, PROMOITALS

Learning objectives

The programme aims to train professionals with sound competencies for teaching and promoting Italian language and culture both in Italy and abroad. Through specific university-level training, the PROMOITALS Master's programme aims to meet the growing demand for qualified persons able to teach Italian language and culture to foreigners and to promote and organize Italian language and culture. The programme aims to train professionals both in the field of teaching Italian as a second or foreign language, and in the field of promotion and organization of Italian language and culture in Agencies, Institutes and Businesses operating both in Italy and abroad.

Employment opportunities

The programme aims to train professionals for employment as:

- L2/LS Italian language teachers in local agencies, businesses, organizations linked to the job world, associations and private schools, local Dante Alighieri committees in Italy and abroad; language facilitators in schools and businesses; collaborators and language experts in University language centres, Italian teachers abroad, assistants and readers in schools, Institutes of Italian culture and foreign universities, in Italian diplomatic missions, embassies and consulates;
- experts in the organization and promotion of Italian language and culture, in planning cultural events, in managing and directing courses on Italian language and culture; experts and consultants in the sector of cultural and religious tourism, in commerce offices of Italian diplomatic-consular offices, in the offices of the Institute for foreign commerce, in Italian Chambers of Commerce abroad, in the "Sportelli Italia" set up by the Foreign Office in association with embassies and consular offices.

Places available

The number of places available for admission to the programme is **30**.



The University also reserves the right to determine whether or not to activate the programme, should circumstances change.

Admission requirements

The programme caters for those with a first cycle degree in one of the following classes of former Ministerial Decree 270/2004, or in one of the corresponding classes of former Ministerial Decree 509/99:

- L-1 Cultural heritage
- L-3 Visual arts, music, performing arts and fashion;
- L-5 Philosophy;
- L-6 Geography;
- L-10 Literature;
- L-11 Modern languages and cultures;
- L-12 Language mediation;
- L-14 Legal services;
- L-15 Tourism;
- L-16 Administration and organization;
- L-18 Business economics and management;
- L-19 Education and training;
- L-20 Communication;
- L-24 Psychology and techniques;
- L-33 Economics;
- L-36 Political science and international relations;
- L-37 Social sciences for cooperation, development and peace;
- L-39 Social services;



- L-40 Sociology;
- L-42 History.

The Coordinating Committee reserves the right to assess whether those holding a different degree may be admitted on the basis of their CV and motivations.

Those about to graduate in the same degree classes may also apply as long as they complete the degree by the start of the programme or no later than three months after the start of the same. In this case, applicants are admitted "conditionally", and the student must self-certify within 30 days of its completion and on pain of exclusion, that he/she has been awarded the degree.

Foreigners are required to have adequate knowledge of spoken and written Italian (at least level B2 of the Common European Framework).

Selection process

Admission to the programme is through an interview that aims to assess the candidate's aptitude for teaching and for promoting Italian to foreigners, and his/her interest in aspects and issues relating to these topics, as well as CV assessment.

Evaluation criteria:

- Interview: up to 40 points. Knowledge of the objectives of the Master (aspects and issues relating to teaching Italian as a second language, L2/foreign; aspects and issues relating to the diffusion abroad of Italian language and culture) and relational, communication and management skills will be assessed;
- CV assessment: up to 50 points. The following will be considered. Final degree marks (up to 9 points) in accordance with the following:

Final degree mark and points:

- 110 with honours: 9
- From 108 to 110: 7
- From 103 to 107: 5



- Up to 102: 2

second cycle degree (up to 3 points); PhD, specializations or post-graduate studies that the Selection Committee considers to be in line with the aims of the Master's programme (up to 3 points); study curriculum in line with the aims of the Master's programme - **list the exams passed within the plan of university studies** (up to 5 points); Italian language skills documented by examinations (up to 9 points) and knowledge of foreign languages, as demonstrated by studies and any certifications (up to 6 points); IT skills and any certifications (up to 6 points); refresher and specialization courses in line with the objectives of the Master's programme (up to 3 points); professional experience (up to 3 points); any publications (up to 3 points).

Candidates must score at least 46/90 for admission.

Interviews will take place at **2.30pm** on **12 February 2018** (surnames A-R) and at **2.30pm** on **13 February 2018** (surnames S-Z) at the Teaching sector (*Settore didattico*) of the University of Milan, CALCIF, via Santa Sofia no. 9/1, 20122 Milan.

Candidates resident abroad can request an online interview as long as the Committee can ascertain their identity (only if requested by the applicant on presentation of his/her CV, indicating telephone number, email address and Skype contact).

Programme organization

The programme will take place **from 6 March 2018 to 8 January 2019** with online modules (website: www.promoitals.unimi.it) and with lectures at the Centre for Intercultural Mediation and Communication (*Polo di Mediazione interculturale e comunicazione*), piazza Montanelli no. 4, 20099 Sesto San Giovanni (MI) **from 18 June 2018 to 6 July 2018**.

The programme entails a total of **500 hours** of lectures and distance learning (e-learning).

Lectures (90 hours) are divided into the following modules:

- Planning a course/module, from objectives to evaluation. Teaching applications and materials;
- Italian as the language of schooling. Analysis of approaches and materials for the Italian language;



- Skills in teaching Italian to foreigners: listening comprehension and speaking. Teaching applications and materials;
- Skills in teaching Italian to foreigners: reading and writing. Teaching applications and materials;
- Teaching lexicon;
- Approaches and methods for teaching Italian to foreigners;
- Language facilitators;
- Information technology for L2 Italian.

There are **410 hours** of e-learning, divided into the following modules:

- Sociolinguistics of contemporary Italian;
- Acquisitional linguistics;
- Principles of language education;
- Planning a course/module, from objectives to evaluation (theory);
- Language skills;
- Italian, language of schooling;
- New learning technologies ITL2;
- Introduction to teaching Italian to foreigners;
- Learning and strategies for learning languages;
- The Common European Framework of Reference for Languages;
- Teaching L2 Italian to adult immigrants;
- Phonetics, morphosyntax and textuality of the Italian language;
- Teaching grammar;
- Teaching L2 Italian to children in Italian schools;
- Teaching special languages;



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- Evaluation, testing and certification;
- Italian language and culture. Promotional and organizational aspects 1;
- Italian language and culture. Promotional and organizational aspects 2;
- Introduction to intercultural communication;
- Class interaction and managing multilingual classes;
- Languages and cultures of origin;
- Bilingualism and multilingualism;
- Development of teaching materials.

Students are expected to complete a **200-hour** traineeship period in Italy or abroad.

In the case of previous proven experience and training courses already completed in the field, the Coordinating Committee can decide to award the credits corresponding to the planned traineeship (up to 8) and/or part of the credits for training activities (up to 12).

At the end of each module students must sit an exam on the topics covered (on line for the e-learning modules).

The final Master's exam consists of the discussion of a thesis on a topic agreed with a professor or co-professor of the Master's programme. The work, individual or in collaboration with others, may be presented in hard copy, on CD or DVD. The student's individual contribution to the work must be clearly indicated.

The course exams and final exam are scored out of thirty points. Should the student subsequently enrol in a second cycle degree programme, he/she may request that any credits thus acquired be recognized by the relevant academic board.

The Master's qualification is worth **60 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 2,300.00** (including insurance coverage).



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The enrolment fee must be paid in two instalments:

- First instalment, amounting to € 1,516.00, to be paid by the enrolment deadline;
- Second and final instalment, amounting to € 800.00, to be paid by 31 July 2018.

The first instalment includes stamp duty.

Programme Organizational secretariat

The University Centre for the promotion of Italian language and culture “Chiara and Giuseppe Feltrinelli” (CALCIF)

University of Milan

via S. Sofia no. 9/1, 20122 Milan

tel. 02 50312812 fax 02 50312656

e-mail: promoitals.calcif@unimi.it

For information on programme organization and modules see the website:

www.promoitals.unimi.it

For administrative enquiries

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First level Master's programme in Hand Rehabilitation

Learning objectives

The programme aims to specialize those holding a first cycle degree in Physiotherapy, in Occupational Therapy and in Neuropsychomotricity Therapy in the treatment of hand pathologies (due to injury, degenerative conditions, inflammation or malformations) for improving interaction with medical staff and achieving better clinical outcomes.

Employment opportunities

Master's graduates may find employment in specific centres for rehabilitation of the hand and the upper limb.

Places available

The number of places available for admission to the programme is **14**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.

Admission requirements

The programme caters to those with a first cycle degree in class L/SNT2 Rehabilitation healthcare professions (first cycle degree programmes in Physiotherapy, in Occupational Therapy and in Developmental Neuropsychomotor Therapy only) of former Ministerial Decree 270/2004, or in one of the corresponding classes of former Ministerial Decree 509/99.

Those holding non-university qualifications equivalent by law to a university degree can also apply.

Selection process

Admission to the programme is through an interview, as well as CV assessment.

Evaluation criteria:

- Interview (including assessment of English language skills): up to 20 points;



- CV assessment: up to 10 points.

Candidates must score at least 18/30 for admission.

The selection process will take place at **9am on 19 February 2018**, at Gruppo Multimedita, Ospedale San Giuseppe (Pampuri 1 room), via San Vittore no. 12, 20123 Milan.

Programme organization

The programme will be held from **19 March 2018 to 16 January 2019** at Gruppo Multimedita, Ospedale San Giuseppe (same location as the first cycle degree programme in Medicine and Surgery), in via San Vittore no. 12, 20123 Milan,

Some of the training activities will take place in the following establishments: Gruppo Multimedita (Sesto San Giovanni branch), Polo Scientifico e Tecnologico di Milan and Santa Maria di Castellanza Nursing Home (VA) (*Casa di Cura Santa Maria di Castellanza (VA)*), Ospedale San Paolo di Savona, Azienda Ospedaliera di Padova, IRCCS Istituto Clinico Humanitas.

The programme entails lectures and other forms of training, such as practicals, for a total of **558 hours**.

Lectures are divided into the following modules:

- Introduction to hand pathologies;
- Anatomy, objective examination;
- Hand pathologies examined with the use of instrumentation;
- Wrist pathologies: surgical techniques, nursing approach and rehabilitation treatment;
- Elements of surgery and hand rehabilitation I;
- Elements of surgery and hand rehabilitation II;
- Elements of surgery and hand rehabilitation III;
- Pathology of spasticity;
- Rehabilitation techniques;
- Methodological approaches;



- Wrist pathologies;
- Pathology of the brachial plexus;
- Pathology of paediatric malformations;
- The child's hand I;
- The child's hand II;
- Specific skin pathologies;
- Hand injuries and consequences;
- Treatment of trapeziometacarpal and scaphotrapeziotrapezoid arthritis;
- Arthrogryposis, Camptodactyly: conservative treatment;
- Orthopaedic problems in the upper limb;
- Deformities of the upper limb in rheumatic diseases;
- Motor control of the upper limb: from single joint to multi-joint motor control; pain and alteration of motor control of the upper limb;
- Treatment of patients with motor control alterations of the upper limb after poliomyelitis and in patients with outcomes of cranial trauma;
- Alteration in motor control for bimanual activities of the upper limb;
- The Bobath concept and the central neurological hand. Hand and brain: neuropsychological disorders. Static and dynamic EMG: central and peripheral neuromotor impairments. The rheumatic hand and joint exercises. Instrumental physical therapy. Congenital malformations-methodological approach. Hand and mind;
- Prosthesis of the upper limb: indications and possible therapies. Orthoses. Occupational therapy and hand rehabilitation; Technologies allowing autonomy. Neurologic-rheumatologic hand. Musicians' hands. Advanced technologies for evaluation and rehabilitation in pathologies of the upper limb. Functional Electric Stimulation in the treatment of the hand/upper limb.



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This will be followed by a traineeship period of **250 hours**.

During the programme, students' skills and knowledge will be assessed through a series of multiple-choice tests.

The final Master's exam consists of the preparation and discussion of an assignment on the topics covered in the programme.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The Master's qualification is worth **60 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 3,900.00** (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to **€ 1,516.00**, to be paid by the enrolment deadline;
- Second and final instalment, amounting to **€ 2,400.00**, to be paid by **31 July 2018**.

The first instalment includes stamp duty.

Programme Organizational secretariat

Mrs Graziella Nichetti

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For administrative enquiries

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University Training and Permanent Training Division

e-mail: master@unimi.it



First level Master's programme in Cardiovascular Ultrasound Techniques

Learning objectives

The aim of the Master's programme is to provide in-depth training on the technical and practical aspects of cardiovascular ultrasound techniques, and specific skills for the optimal use of ultrasound equipment, ensuring compliance with performance standards. In addition, the programme aims to teach concepts of anatomy and cardiovascular physiology necessary for carrying out examinations aimed at resolving diagnostic queries, the cardiovascular surgery techniques needed to ensure the best outcomes in terms of diagnosis, the appropriate management of the production and archiving of digital images, and participation in bibliographic and clinical research activities.

Employment opportunities

Master's graduates will possess the technical skills required to use equipment for performing echocardiography and vascular Echo Doppler examinations. These skills notwithstanding, as far as the performance of the examinations according to the quality standards in place in certified echocardiography and vascular Echo Doppler laboratories, the graduate will at no point replace the cardiology specialist in terms of the supervision and reporting of the examinations themselves.

Master's graduates may find employment in the public and private healthcare sector or as "Product Specialists" in companies that manufacture diagnostic equipment.

Places available

The number of places available for admission to the programme is **7**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.

Admission requirements

The programme caters to those with first cycle degrees in class L/SNT3 Technical healthcare professions (first cycle degree programmes in Cardiocirculatory pathophysiology and



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cardiovascular perfusion techniques and Medical radiology techniques, through imaging and radiotherapy only) of former Ministerial Decree 270/2004, or in one of the corresponding classes of former Ministerial Decree 509/99.

Those holding non-university qualifications equivalent by law to a university degree can also apply.

Selection process

Admission to the programme is through a written multiple-choice exam and interview aimed at ascertaining the candidate's knowledge of the foreign language and his/her computing skills, as well as CV assessment.

Evaluation criteria:

- Written exam: 30%;
- Interview: 30%;
- CV assessment: 40%

Candidates must score at least 60/100 for admission.

The selection process will take place at 10am on 16 February 2018, at the Department of Clinical and Community Science (*Dipartimento di Scienze Cliniche e di Comunità*), IRCCS Monzino Cardiology Centre (*Centro Cardiologico Monzino*) (aula magna) via C. Parea no. 2, 20138 Milan.

Programme organization

The programme will be held from 14 March 2018 to 14 March 2019 at the Department of Clinical and Community Science (*Dipartimento di Scienze Cliniche e di Comunità*), IRCCS Monzino Cardiology Centre (*Centro Cardiologico Monzino*), via C. Parea no. 4, 20138 Milan.

The programme entails lectures and other forms of training, such as workshops, for a total of 500 hours. Lectures are divided into the following four modules:



The programme entails lectures and other forms of training, such as diagnostic investigation using audiovisual materials and clinical cases, for a total of **504 hours**. Lectures are divided into the following modules:

- Anatomy of the heart and blood vessels;
- Physiology and pathophysiology of the heart and blood vessels;
- Principles of ultrasound physics, flow dynamics and image management methods;
- Notions of cardiac surgery;
- Transthoracic echocardiography;
- Echocardiographic examination in the principal valve pathologies;
- Ischemic heart disease ;
- Study of myocardial perfusion and stress Echo;
- Transoesophageal echocardiography;
- Three dimensional echocardiography;
- Evaluation of prosthetic heart valves;
- Echocardiographic examination of the aorta;
- Cardiomyopathies, endocarditis and pathologies of the pericardium;
- Congenital heart disease;
- Vascular ultrasound;
- Transcranial Doppler;
- Emergency echocardiogram;
- Organization and management of the laboratory and legislative aspects.

A traineeship period of **250 hours** will follow.



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During the programme, students will undergo a series of multiple-choice exams and practical tests on the equipment, including clinical cases and diagnostic evaluations, aimed at assessing the knowledge and skills they have acquired.

The final Master's exam consists of a comprehensive examination to assess the knowledge and skills acquired by the student involving the use of interactive multimedia material and a practical test consisting of the performance of various ultrasound examinations, both basic and complex, and diagnostic interpretation.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The Master's qualification is worth **60 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 3,000.00** (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to **€ 1,516.00**, to be paid by the enrolment deadline;
- Second and final instalment, amounting to **€ 1,500.00**, to be paid by **31 July 2018**.

The first instalment includes stamp duty.

Programme organizational secretariat

Department of Clinical and Community Science (*Dipartimento di Scienze Cliniche e di Comunità*)

IRCCS Monzino Cardiology Centre (*Centro Cardiologico Monzino*)

via C. Parea no. 4, 20138 Milan

dott.ssa Fabiana Rossi

tel. 02.58002520

e-mail: fabiana.rossi@unimi.it



UNIVERSITÀ DEGLI STUDI DI MILANO

Institutional, International and Training Issues Area

University Training and Permanent Training Division

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Second level Master's programmes

Second level Master's programme in Bioinformatics and functional genomics

Learning objectives

The Master's programme caters for those who intend to use advanced bioinformatic approaches within the field of computing, statistics and mathematics to address complex biological concepts. The programme will focus on general topics of biology and biotechnology, with particular emphasis on theoretical notions and recent technological advances, and will attempt to show how Next Generation Sequencing technologies and other advanced experimental approaches can provide more accurate and more targeted answers thanks to the possibility of analysing and integrating data using sophisticated bioinformatic techniques.

This programme will provide the basic tools for understanding the mathematical and statistical concepts that form the basis of the tools used to interpret and analyse data. Such tools will be used and integrated in order to analyse the different types of data currently available in databases.

Students will develop the skills to manage and analyse raw data, using the most modern programming languages for data science and adopting cloud-based technologies where appropriate, and will learn the basic concepts surrounding data visualisation and development techniques for web applications.

The programme will also examine the legal aspects and ethical considerations surrounding data analysis.

The Master's programme will be held in English.

Employment opportunities

Master's graduates will acquire a high level of technical knowledge within the fields of bioinformatics and basic and industrial research, as well as analytical skills normally required in Data Science. These skills may be applied in a variety of sectors, such as Biotechnology and Pharmaceuticals.



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Places available

The number of places available for admission to the programme is **12**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.

Admission requirements

The programme caters to those with a second cycle degree (*laurea magistrale*) or long single cycle degree (*laurea magistrale a ciclo unico*) in one of the following classes of former Ministerial Decree 270/2004, or in one of the corresponding classes of former Ministerial Decree 509/99:

- LM-6 Biology;
- LM-8 Industrial biotechnology;
- LM-9 Pharmaceutical, veterinary and medical biotechnologies;
- LM-13 Pharmacy and industrial pharmacy;
- LM-41 Medicine and surgery.

Selection process

Admission to the programme is through a written exam consisting of open questions, an interview aimed at ascertaining the candidate's knowledge of English and of the topics addressed by the Master's programme, and through CV assessment.

Evaluation criteria:

- Written exam: 40%;
- Interview: 40%;
- CV assessment: 20% (the following will be considered: final degree examination mark up to 10 points; scientific publications up to 5 points; professional experience up to 5 points).



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Candidates must score at least 60/100 for admission.

The selection process will take place at **10am on 13 February 2018** at the National Institute of Molecular Genetics (*Istituto Nazionale Genetica Molecolare INGM*) (Padiglione Romeo ed Enrica Invernizzi), via F. Sforza no. 35, 20122 Milan.

Programme organization

The programme will be held from **15 March 2018 to 31 January 2019** at the National Institute of Molecular Genetics (*Istituto Nazionale Genetica Molecolare INGM*) (Padiglione Romeo ed Enrica Invernizzi), via F. Sforza no. 35, 20122 Milan.

The programme entails lectures and other forms of training, such as computational tools, data analysis and applications, for a total of **512 hours**. Lectures are divided into the following modules:

- From molecular biology to functional genomics: the molecular basis of genetic disease; genome structure; immunogenetics and biochemistry of genetic traits;
- Structural biology: an introduction to techniques for determining the structure of a protein. Computational aspects for determining the structure and analysis of proteins. Computational techniques for determining the dynamics of proteins, creation of molecular models and design of drugs;
- Algorithms and organization of data in bioinformatic analysis: an introduction to algorithms and simple and complex data structures. Graphs: concepts, algorithms and implementation. Examples of programming languages;
- Databases for biological analyses: an introduction to the concepts of relational databases, SQL language and Open Source database management systems;
- Next generation sequencing: sequencing technologies from the most basic to the most advanced solutions: single cell sequencing; DNA, RNA, ChIP, ATAC-Seq. A theoretical introduction to the most used and advanced data analysis algorithms;



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- Computational biology and biological networks: an introduction to “big data” and to the statistical methods used to identify differentially expressed genes, algorithms and analysis of “clustering” and gene enrichment;
- Statistical analysis of omic data: an introduction to statistics. Probability and stochastic processes, regression methods, multivariate analysis. Theory of graphs and networks, probabilistic algorithms. Theory of “machine learning” and dimensionality reduction methods;
- Legal and ethical aspects of science and technology.

This will be followed by a traineeship period of **350 hours**.

During the programme, students will undergo a written exam aimed at assessing the knowledge and skills they have acquired.

The final Master’s exam consists of presenting a poster with the findings of the project undertaken, as well as a brief oral presentation during which the student will answer questions posed by the Examining Board.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The Master’s qualification is worth **60 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 4,000.00** (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to **€ 1,516.00**, to be paid by the enrolment deadline;
- Second and final instalment, amounting to **€ 2,500.00**, to be paid by **31 July 2018**.

The first instalment includes stamp duty.



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Scholarships

Three (3) scholarships will be awarded, each amounting to € 4,000.00, funded by the National Institute of Molecular Genetics (*Istituto Nazionale di Genetica Molecolare INGM*), in the form of a total exemption from payment of the enrolment fee. The scholarships will be awarded to the first three candidates admitted to the programme, in accordance with the final ranking for admission to the same.

Programme Organizational secretariat

National Institute for Molecular Genetics (*Istituto Nazionale Genetica Molecolare*)

Padiglione Romeo ed Enrica Invernizzi, INGM

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Open to the public Monday to Friday 9am-12 noon

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Second level Master's programme in Data science for economics, business and finance

Learning objectives

The age of Industry 4.0, the IoT (Internet of Things) and Social Media poses an inexorable challenge to companies and organizations: the analysis of Big Data. While companies and organizations are becoming increasingly aware of the potential of their proprietary data, to a certain extent they are unable to extract new value from it.

Today, companies and organizations are looking for new professionals (or “data scientists”) who not only possess specific fundamental knowledge of the sector, but who can also offer statistical and IT skills, as well as economic and social science skills, to be able to interpret the results of data analysis in relation to economic and social processes.

The Master’s programme aims to meet the training needs of such professionals by providing them with the skills they will need to analyse and understand the nature of Big Data, through modern machine learning, data mining methods and cloud computing tools, in order to extract significant relationships and recurring patterns, construct predictive and nowcasting models that integrate Big Data with company data, market data and data from social media, carry out policy impact analyses (economic, social) or actions (investments, marketing campaigns) and any other activity relating to the economy, marketing, business and finance sectors.

Employment opportunities

The Master’s programme aims to form data scientists to work in all economic and institutional sectors facing the challenges posed by Industry 4.0, the IoT, Social Media and Big Data in general.

Places available

The number of places available for admission to the programme is **25**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.



Admission requirements

The programme caters to those with a second cycle degree (*laurea magistrale*) or long single cycle degree (*laurea magistrale a ciclo unico*) in one of the following classes of former Ministerial Decree 270/2004, or in one of the corresponding classes of former Ministerial Decree 509/99:

- LM-16 Finance;
- LM-17 Physics;
- LM-18 Computer science;
- LM-19 Information and publishing systems;
- LM-31 Management engineering;
- LM-32 Computer engineering;
- LM-40 Mathematics;
- LM-43 Information and Communication Technologies for the Humanities;
- LM-44 Mathematical-physical modelling for engineering;
- LM-49 Planning and Management of Tourism Systems;
- LM-55 Cognitive sciences;
- LM-56 Economics;
- LM-66 Computer systems safety;
- LM-77 Economic and Business Sciences;
- LM-82 Statistics;
- LM-83 Statistical and actuarial sciences;
- LM-88 Sociology and social research;
- LM-91 Methods and techniques for the information society.



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Admission to the programme is subject to verification of strong computer skills at the selection stage.

Selection process

Admission to the programme is through an interview aimed at assessing the candidate's foundations in quantitative methods, computing and economics, as well as CV assessment.

Evaluation criteria:

- Interview: 25%;
- CV assessment: 75% (the following will be considered: final degree examination mark, postgraduate qualifications or specializations, scientific publications and professional experience, IT skills and any certifications).

Candidates must score at least 60/100 for admission.

The selection process will take place at **9.30am on 19 February 2018** at the Department of Economics, Management and Quantitative Methods (*Dipartimento di Economia, Management e Metodi Quantitativi*), Via Conservatorio no. 7, 20122 Milan.

Programme organization

The course will be held from **12 March 2018 to 30 October 2018** at the Department of Economics, Management and Quantitative Methods (*Dipartimento di Economia, Management e Metodi Quantitativi*), Via Conservatorio no. 7, 20122 Milan and at the Department of Computing (*Dipartimento di Informatica*), Via Comelico no. 39/41, 20135 Milan.

The programme entails lectures and other forms of training for a total of **520 hours**. Lectures are divided into the following modules:

- elements of computational statistics and statistical learning;
- elements of R and Python;
- machine learning and data mining;
- cybersecurity and privacy;



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- distributed and parallel computing;
- decision making with mathematical computing and optimization;
- social network analysis, social media and sentiment analysis;
- economic and financial time series analysis;
- web scraping and crawling, open data, markup languages and data shaping;
- databases (SQL, NoSQL), data linking and data visualization;
- economic data science for program, policy and system evaluation;
- strategic data science marketing: extracting new value from proprietary data;
- financial data science for risk analysis;
- elements of artificial intelligence and expert systems.

This will be followed by a traineeship period of **250 hours**.

During the programme, students will be tested on the knowledge and skills they have acquired through oral or written presentations.

The final Master's exam consists of the preparation and presentation of the research report developed during the traineeship period.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The Master's qualification is worth **60 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 4,500.00** (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to **€ 1,516.00**, to be paid by the enrolment deadline;
- Second and final instalment, amounting to **€ 3,000.00** to be paid by **31 July 2018**.



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The first instalment includes stamp duty.

Programme organizational secretariat

Department of Economics, Management and Quantitative Methods (*Dipartimento di Economia, Management e Metodi Quantitativi*)

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Second level Master's programme in Neuromuscular diseases: diagnosis, treatment and research - muscular and multisystem aspects

Learning objectives

The Master's programme caters for medics with an interest in neuromuscular pathologies and serious disabilities, both in children and in adults. Although rare, neuromuscular diseases are collectively common in children and adults. Nonetheless, the management of patients and particularly the development of new drugs in the last two years, have enabled many people with neuromuscular disorders to live longer, feel better and receive more clinical, medical and social care and attention. The ever-increasing numbers of new therapies constantly being developed make the possibility of early diagnosis and prompt recognition of the signs and symptoms of potentially treatable illnesses, or at least some of them, imperative. Delayed diagnosis and the difficulty in managing both acute and chronic patients complicate and often hinder the treatment programme for people with these disorders. It is therefore essential that doctors are aware of the latest developments in this field, both from a clinical and research point of view, to ensure that patients receive the most appropriate care and the most advanced treatments.

At the end of the programme, students will be expected to be able to diagnose a neuromuscular disorder in children as well as in adults, describe the diagnostic pathway and treatment programme, including all available therapies, those readily available and those at the experimental stage, and have an appropriate level of training to enable them to participate in clinical research in the field of neuromuscular disease, using elements of the research module.

Employment opportunities

The Master's programme provides students with the skills required to work in:

- Neurology and pneumology clinical departments where ventilatory assistance and neurorehabilitation are required;
- Neurorehabilitation departments where there are people with serious disabilities;
- Establishments conducting clinical research trials on drugs to treat these diseases;
- Neuromuscular workshops conducting muscle biopsies or clinical genetic analyses;



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- Neurophysiology workshops;
- Pharmaceutical companies carrying out research programmes in the field of neuromuscular diseases.

Places available

The number of places available for admission to the programme is **15**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.

Admission requirements

The programme caters to those with a long single cycle degree in class LM-41 Medicine and Surgery of former Ministerial Decree 270/2004, or in the corresponding class of former Ministerial Decree 509/99.

Selection process

Admission to the programme is through a written multiple-choice exam and interview, as well as CV assessment.

Evaluation criteria:

- Written exam: 40%;
- Interview: 40%;
- CV assessment: 20% (the following will be considered: postgraduate specializations, scientific publications and clinical and professional experience in the specific field).

Candidates must score at least 50/100 for admission.

The selection process will take place at **9am on 12 February 2018**, at the Centro Clinico Nemo (padiglione 7, second floor), ASST Grande Ospedale Metropolitano Niguarda, piazza Ospedale Maggiore no. 3, 20162 Milan.



Programme organization

The programme will be held from **8 March 2018 to 7 March 2019** at the Centro Clinico Nemo, Neurorehabilitation Operative Unit (*U.O. Neuroriabilitazione*), ASST Grande Ospedale Metropolitano Niguarda, piazza Ospedale Maggiore no. 3, 20162 Milan,

The programme entails lectures and other forms of training, such as workshops and practicals, for a total of **502 hours** (90 hours of which are provided in the form of e-learning). Lectures are broken down into the following modules:

- Neuromuscular diseases: clinical and neurological aspects;
 - Motor neuron disease in adults;
 - Amyotrophic lateral sclerosis;
 - Neuromuscular diseases in children;
 - Spinal amyotrophies and Duchenne muscular dystrophy;
 - Muscular dystrophies.
- Neuromuscular diseases: extra neurological clinical aspects:
 - Respiratory problems;
 - Nutritional and growth problems;
 - Cardiological and vegetative problems
 - Augmentative Alternative Communication;
 - Problems of pre- and post-natal genetic counselling in hereditary neuromuscular diseases.
- From pathophysiology to the diagnostic pathway:
 - Muscle biomechanics;
 - Neurophysiological examination: how to identify the lesion location;
 - Muscle biopsy: how to address a disease diagnosis;



- The study of swallowing: when to provide clinical dietary advice.
- Non-drug treatments:
 - Ventilation: when and how to set it up;
 - Management of secretions: when and how;
 - Management of disability: socio-economic aspects, rights and management of daily life;
 - Nursing in neuromuscular diseases: care-giving and educational aspects;
 - Physical exercise: which, how and how much;
 - Ethical considerations in the progression of a neuromuscular disease;
 - Self-care in neuromuscular diseases.
- Drug treatments:
 - Drugs for ALS: riluzole, new promising molecules and symptomatic drugs;
 - Drugs for SMA: Nusinersen and symptomatic drugs;
 - Drugs for Duchenne muscular dystrophy: Translarna and cardiological treatments;
 - Drugs for myotonic dystrophies: Mexiletine and extra muscular treatments.
- Clinical research:
 - Clinical trials and independent research: the role of regulatory bodies and sources of funding;
 - Legislative considerations;
 - Research methodology;
 - Structural organizational aspects of the infrastructure: research personnel;
 - How to design a research protocol: hypothesis, structure and budget;
 - Quality markers: audit, monitoring, CRO, CRA, adverse events;
 - The sample: type of study, sample size.



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- Outcomes:
 - Theoretical aspects: definition, research, monitoring;
 - Functional outcomes;
 - Quality of life outcomes.

This will be followed by a traineeship period of **250 hours**.

During the programme, students will undergo written exams and discuss assignments with the aim of assessing the knowledge and skills they have acquired.

The final Master's exam consists of the presentation and discussion of a project that addresses the aims of the Master's programme.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The Master's qualification is worth **60 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 2,582.00** (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to **€ 1,516.00**, to be paid by the enrolment deadline;
- Second and final instalment, amounting to **€ 1,082.00** to be paid by **31 July 2018**.

The first instalment includes stamp duty.

Programme organizational secretariat

Department of Biomedical Health Sciences (*Dipartimento di Scienze Biomediche per la salute*)

piazza Ospedale Maggiore no. 3, 20162 Milan

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Institutional, International and Training Issues Area

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Second level Master's programme in Labour Law and Industrial Relations

Learning objectives

The programme aims to provide specialists and professionals who make use of labour law with wider competencies in this field, integrating them closely with a grounding in the area of economics-administration and sociopolitics. This allows them to enhance their ability to interact with people and with business and institutional bodies involved in the management of human resources and in the job world.

Employment opportunities

The programme has the following occupational/professional aims:

- freelance consultancy and assistance in the area of labour law;
- management of human resources in industrial and tertiary businesses;
- employment in private businesses or public institutes operating in the field of mediation between job offer and demand, labour supply, outplacement, services for employment and labour and training policies;
- managing trade union relations in organizations representing the interests of businessmen and of workers.

Places available

The number of places available for admission to the programme is **25**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.

Admission requirements

The programme caters to those with a second cycle degree (*laurea magistrale*) or long single cycle degree in one of the following classes of former Ministerial Decree 270/2004, or in one of the corresponding classes of former Ministerial Decree 509/99:



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- LMG/01 Law;
- LM/31 Engineering management;
- LM/51 Psychology;
- LM/56 Economics;
- LM/62 Political science;
- LM/63 Public administration;
- LM/77 Economics and business;
- LM/78 Philosophy;
- M/87 Social work and social policies;
- LM/88 Sociology and social research;
- LM/90 European studies.

The Coordinating Committee reserves the right to assess whether those holding a different degree may be admitted on the basis of their CV and motivations.

Selection process

Admission to the programme is through a written multiple-choice exam on labour law, which will also ascertain the candidate's knowledge of English, and through CV assessment.

Evaluation criteria:

- Written exam: 50% (including evaluation of English language skills);
- CV assessment: 50% (50 points for final degree mark of 110/110 cum laude, 40 points for a final degree mark of 110/110, 1 point for every final degree mark over 70/110).

Candidates must score at least 35/100 for admission.

The selection process will take place at 5pm on 23 February 2018, at the Department of Social and Political Science (*Dipartimento di Scienze sociali e politiche*) in via Pace no. 10, 20122 Milan.



Programme organization

The programme will be held at the Department of Political and Social Science (*Dipartimento di Scienze sociali e politiche*) in via Pace no. 10, 20122 Milan, **from 15 March 2018 to 30 March 2019.**

The programme entails lectures and other forms of training, such as seminars, interactive teaching on law cases (100 hours), for a total of **600 hours**. Lectures are divided into the following modules:

- The job market and job services;
- Job contracts;
- Orientation training;
- Human resources development and management;
- Public and private law in social security and welfare;
- Industrial relations and negotiation techniques;
- Employment relationship laws (duties and safeguarding professionalism, workplace and times, safety on the job, discrimination and equality, privacy, laying off, production decentralization, externalization and due diligence in personnel costs);
- Collective action (collective negotiations in the public and private sector, trade union rights, freedom of association and collective disputes);
- Labour policies;
- Labour economics;
- EU and comparative labour law;
- Labour dispute resolution (ADR and divestment of workers' rights, labour arbitration and trials);
- taxation systems, accounting and labour costs.

This will be followed by a traineeship period of **500 hours**.



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During the programme students will take written exams on the concepts acquired.

The final Master's exam consists of a written exam on the topics addressed in the Master's programme.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The Master's qualification is worth **75 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 5,000.00** (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to **€ 1,516.00**, to be paid by the enrolment deadline;
- Second and final instalment, amounting to **€ 3,500.00**, to be paid by **31 July 2018**.

The first instalment includes stamp duty.

Scholarships

By virtue of an agreement between the University and INPS, students studying for the Master's programme can benefit from **5 scholarships awarded by INPS, each amounting to € 5,000.00**, to fully cover the enrolment fees, provided that they meet the admission requirements specified herein, other requirements laid down in the competition for scholarships published by INPS (www.inps.it : follow "*Avvisi, bandi e fatturazione*" (Announcements, calls and invoicing) > "*Welfare, assistenza e mutualità*" (Welfare, assistance and mutual benefit) > "*Formazione Welfare*" (Welfare training) > "*Master e Corsi di Perfezionamento*" (Masters and Specialization Courses) > "*Bandi attivi*" (Active calls), and on condition that they pass the selection process described in this call for applications.

Programme organizational secretariat

Department of Social and Political Science (*Dipartimento di Scienze sociali e politiche*)

via Conservatorio no. 7, 20122 Milan



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Institutional, International and Training Issues Area

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Second level Master's programme in Clinical Echocardiography

Learning objectives

The Master's programme aims to provide exhaustive information on the basic and advanced echocardiographic techniques used in clinical cardiology. The programme will provide the necessary theory and practical notions for normal and emergency situations that can occur in and outside the hospital. Further aims are to develop diagnostic-therapeutic guidelines to improve coordination of different hospital units in order to improve quality and resource use.

Employment opportunities

Graduates will be qualified to conduct professional activity in heart surgery, anaesthesiology and resuscitation, intensive care units, in sports medicine, in private practice, in cardiology emergency situations, and first level screening and occupational activity in pharmaceutical companies developing echocardiographic contrast media.

Places available

The number of places available for admission to the programme is **15**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.

Admission requirements

The programme caters to those with a long single cycle degree in class LM-41 Medicine and Surgery of former Ministerial Decree 270/2004, or in the corresponding class of former Ministerial Decree 509/99.

Selection process

Admission to the programme is through an interview in which the candidate's knowledge of the topics addressed in the Master's programme and their motivations are verified, as well as through CV assessment.



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Evaluation criteria:

- Interview: 60% (including assessment of foreign language and IT skills);
- CV assessment: 40% (the following will be considered: final degree examination mark, specialisation courses, research doctorate, diploma of specialisation in disciplines related to the Master's programme).

Candidates must score at least 60/100 for admission to the programme.

The selection process will take place at **2pm on 15 February 2018** at IRCCS Galeazzi Orthopaedic Institute (*IRCCS Istituto Ortopedico Galeazzi*) (same location as the first cycle degree programme in Medicine and Surgery), via R. Galeazzi no. 4, 20161 Milan.

Programme organization

The programme will be held from **7 March 2018 to 11 October 2018** at IRCCS Galeazzi Orthopaedic Institute (*IRCCS Istituto Ortopedico Galeazzi*), via R. Galeazzi no. 4, 20161 Milan.

The programme entails **504** hours of lectures and other forms of training, such as diagnostic activity and case studies. Lectures are divided into the following modules:

- Basic physical principles;
- Echocardiographic examination;
- Valve cardiopathies;
- Assessment of artificial heart valves;
- Cardiomyopathies and endocarditis;
- Study of myocardial perfusion;
- Diseases of the aorta;
- Ischemic cardiopathy;
- Transoesophageal echocardiography;
- Congenital cardiopathies;



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- Urgent and emergency echocardiograms;
- Three-dimensional echocardiography;
- Vascular echocardiography.

This will be followed by a traineeship period of **250 hours**.

During the programme, student progress will be ascertained through interviews, practical tests based on clinical cases, and diagnostic evaluations.

The final Master's exam consists of comprehensive exams to test the knowledge and skills acquired by the student, evaluated through the use of interactive multimedia materials, and through a practical test that requires them to perform a variety of echocardiographic examinations.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The Master's qualification is worth **60 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 2,800.00** (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to **€ 1,516.00**, to be paid by the enrolment deadline;
- Second and final instalment, amounting to **€ 1,300.00**, to be paid by **31 July 2018**.

The first instalment includes stamp duty.

Programme Organizational secretariat

IRCCS Galeazzi Orthopaedic Institute (*IRCCS Istituto Ortopedico Galeazzi*)

(same location as the first cycle degree programme in Medicine and Surgery)

via R. Galeazzi no. 4, 20161 Milan



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Second level Master's programme in Pharmacy and Oncology Pharmacy

Learning objectives

Scientific advances (therapeutic and biotechnological approaches) and laws on the management of cancer therapies (Decrees of the Ministry for Health dated 14/7/99 and 18/2/99, Ministerial circular no. 6/99) call for increasing competence, professionalism and continuing education for the supply, dispensing and safe preparation of cancer therapies.

The Master's programme aims to supplement the managerial, pharmacological, toxicological, technical-pharmaceutical and legal training of healthcare professionals in the overall management of cancer therapies.

The coordinator for the Master's programme is Prof. Alberto Corsini. The Coordinating Committee is composed of the following members: Prof. Gianfranco Canti, dott. Andrea De Monte, dott. Nicola Ferri, dott. Paolo Magni, dott.ssa Emanuela Omodeo Salè and Prof. Angelo Sala.

Employment opportunities

Experts in pharmacy and oncology pharmacy are in high demand in the healthcare system in local health authorities, drug companies, hospital pharmacies and public and private hospitals.

Places available

The maximum number of places available for admission to the programme is **20**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.

Admission requirements

The programme caters to those with second cycle (*laurea magistrale*) degrees or degrees under the laws in force before application of Ministerial Decree 509/99.



Selection process

Admission to the programme is through an interview aimed at assessing the candidate's knowledge of pharmacology and pharmacotherapy, as well as their knowledge of English, and through CV assessment

Evaluation criteria:

- Interview: 50%;
- CV assessment: 50% (the following will be considered: final degree examination mark, publications, research doctorate, attendance of specialisation courses, certificate of attendance of Oncology Pharmacy specialisation course).

Candidates must score at least 60/100 for admission.

The selection process will take place at **10am on 16 February 2018** at the Department of Pharmacology and Biomolecular Science (*Dipartimento di Scienze farmacologiche e biomolecolari*), via Balzaretto no. 9, 20133 Milan.

Programme organization

The programme will be held from **14 March 2018 to 25 March 2019** at the Department of Pharmacology and Biomolecular Science (*Dipartimento di Scienze farmacologiche e biomolecolari*), via Balzaretto no. 9, 20133 Milan, and at the Hospital Pharmacy at the IRCCS European Institute of Oncology, via Ripamonti no. 435 Milan.

The programme entails **504** hours of lectures and other forms of training, such as practicals (112 hours of which are provided in the form of e-learning).

Lectures are divided into the following modules:

- Oncopathology;
- New treatments in oncology;
- Pharmacogenomic aspects in oncology and personalised treatments;
- Oncopathology and other therapies;



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- Management of oncological therapies;
- Immunotherapy and new biotechnological approaches in oncology;
- Cancer surgery and clinical development of new therapies;
- Pharmaceutical laboratory and management of oncological therapies course;
- Theoretical and practical aspects of combining different professional expertise in the care and treatment of cancer patients.

This will be followed by a traineeship period of **300 hours**.

During the programme, progress will be verified through interviews and written assignments on topics covered by the programme.

The final Master's exam consists of the presentation and discussion of the experimental data obtained during the traineeship which forms part of the Master's programme.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The master's qualification is worth **60 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 4,000.00** (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to **€ 1,516.00**, to be paid by the enrolment deadline;
- Second and final instalment, amounting to **€ 2,500.00**, to be paid by **31 July 2018**.

The first instalment includes stamp duty.

For those who have already completed the specialization programme in Oncology Pharmacy the enrolment fee is **€ 2,400.00** (including insurance coverage).



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Institutional, International and Training Issues Area

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Programme Organizational secretariat

Department of Pharmacology and Biomolecular Science (*Dipartimento di Scienze farmacologiche e biomolecolari*)

via Balzaretti no. 9, 20133 Milan

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e-mail: alberto.corsini@unimi.it

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e-mail: master@unimi.it



Second level Master's programme in Pharmacovigilance

Learning objectives

Pharmacovigilance is an important activity that involves training and regional monitoring to collect data on the use and safety of drugs in the general population.

An effective system of drug safety is fundamental for early identification of risks associated with their use in daily clinical practice, where patients may not resemble the subjects enrolled in clinical trials but be of various ages, have different complaints and be on different treatment protocols.

Under Italian law, reporting of the adverse effects of drugs is the responsibility of doctors and pharmacists, as well as individual citizens.

The University of Milan is a major drug safety school, training professionals to investigate the theoretical and practical aspects of drug safety. The Master's programme aims to provide competence in the relevant laws and a solid foundation in pharmacology, statistical methods and data management, essential for developing and implementing drug safety projects and critically assessing their results.

Employment opportunities

The programme trains professionals with the theoretical and practical skills needed for risk assessment and for monitoring the side-effects of pharmacological treatments.

Drug industries operating on the Italian market are required to have a Drug Safety service for their products. The Italian Drug Agency (AIFA) of the Ministry for Health also runs a drug safety service that covers all of Italy. Finally, the Regional health departments are setting up local drug safety centres. Drug safety officers to collect, verify, interpret and code reports of adverse reactions to drugs are therefore in demand.

The sectors and professions offering jobs to holders of Master's degrees in Drug Safety include public and private organizations operating in the national and international health systems, such as: AIFA, *European Medicines Agency*, WHO, Regional drug safety centres, local health



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authorities, hospitals, drug companies, universities, contract research organizations, non-profit organizations and drug safety service firms.

Places available

The maximum number of places available for admission to the programme is **16**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.

Admission requirements

The programme caters to those with second cycle (*laurea magistrale*) degrees or degrees under the laws in force before application of Ministerial Decree 509/99.

Selection process

Admission to the programme is through an interview in which the candidate's foundations in general pharmacology, scientific English and motivations are verified, and through CV assessment.

Evaluation criteria:

- Interview: 60%;
- CV assessment: 40% (the following will be considered: final degree examination mark, publications, specialisation courses attended, research doctorate or Master's degree awarded, other qualifications, refresher courses in pharmacology or clinical medicine attended).

Candidates must score at least 60/100 for admission.

The selection process will take place at **11am on 13 February 2018** at the Department of Pharmacology and Biomolecular Science (*Dipartimento di Scienze farmacologiche e biomolecolari*), via Balzaretti no. 9, 20133 Milan.



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Candidates resident abroad can request an online interview as long as the Committee can ascertain their identity (only if requested by the applicant on presentation of his/her CV, indicating telephone number, email address and Skype contact).

Programme organization

The programme will be held **from 14 March 2018 to 29 March 2019** at the Department of Pharmacology and Biomolecular Science (*Dipartimento di Scienze farmacologiche e biomolecolari*), via Balzaretti no. 9, 20133 Milan.

The programme entails **530 hours** of lectures and other forms of training (**370 hours** of which are in the form of e-learning).

Lectures are divided into the following modules:

- Biostatistics and pharmacoepidemiology;
- Clinical pharmacology;
- Clinical trials, pharmaceutical legislation, health technology assessment, legal and ethical aspects;
- Drug management in the field and drug safety;
- Drug surveillance.

This will be followed by a traineeship period of **500 hours**.

During the programme, the student will undergo oral and on-line tests on the programme topics.

The final Master's exam consists of the development and presentation of a research article in English regarding a project executed during the traineeship period. The article must meet international scientific journal publication criteria, as judged by the programme coordinator.

The findings must be presented and discussed publicly before the Master's programme academic board and the programme tutors.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The Master's qualification is worth **70 university credits (CFU)**.



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Enrolment fees

Those admitted to the programme must pay an enrolment fee of € 4,400.00 (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to € 1,516.00 to be paid by the enrolment deadline;
- Second and final instalment, amounting to € 2,900.00 to be paid by 31 July 2018.

The first instalment includes stamp duty.

For those who have already completed the specialization programme in Pharmacovigilance, the enrolment fee is € 3,000.00 (including insurance coverage).

Programme Organizational secretariat

Department of Pharmacology and Biomolecular Science (*Dipartimento di Scienze farmacologiche e biomolecolari*)

Preventive Epidemiology and Pharmacology Service (SEFAP) (*Servizio di Epidemiologia e Farmacologia Preventiva (SEFAP)*)

via Balzaretti no. 9, 20133 Milan

tel. 02.50318259

e-mail: segreteria@sefap.it; segreteria.sefap@unimi.it

For administrative enquiries

Office for Doctoral and Master's programmes (*Ufficio Dottorati di ricerca e master universitari*)

Open to the public Monday to Friday 9am-12 noon

via Festa del Perdono no. 7, 20122 Milan

tel. 02.50312302 fax 02.50312300; e-mail: master@unimi.it



Second level Master's programme in Management of healthcare and social welfare establishments

Learning objectives

Healthcare and social welfare establishments, care homes and medical centres are currently experiencing unprecedented and increasing levels of complexity which must be managed effectively if adequate levels of efficacy, efficiency and the quality of the care provided are to be achieved and maintained. This requires sound managerial training for those who wish to run these establishments. The Master's programme will provide students with the specific managerial skills required to run and manage such establishments, and allow them to develop and hone their skills in the following fields:

- Knowledge of healthcare systems;
- Strategic planning and business planning;
- Budgeting methods and tools, planning and control;
- Management and development of human resources and professional teams; management of hygiene issues peculiar to Health authorities, including facilities and structural issues;
- Implementation of planning and control measures, budget management, planning by objectives;
- Human resources management;
- Planning and management of quality and patient safety improvement measures;
- Management of the main problems associated with safety in the workplace;
- Management of the main medical-legal problems and professional liability;
- Elements of empowerment, communication and marketing.

Employment opportunities

The programme is aimed at those who are already employed in managerial positions in accredited and non-accredited private healthcare establishments, in social welfare organizations



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or taking specialist studies, and wish to further their knowledge of the programme's topics, and at those who hope to further their professional careers in this field.

Places available

The number of places available for admission to the programme is **15**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.

Admission requirements

The programme caters to those with a second cycle degree (*laurea magistrale*) or long single cycle degree in one of the following classes of former Ministerial Decree 270/2004, or in one of the corresponding classes of former Ministerial Decree 509/99:

- LM/41 Medicine and surgery;
- LM/46 Dentistry and dental prosthetics.

Selection process

Admission to the programme is through an interview in which the candidate's foundations in the topics of the Master's programme and their motivations are verified, and through CV assessment.

Evaluation criteria:

- Interview: 40%;
- CV assessment: 60% (the following will be considered: other academic qualifications up to 25 points, scientific publications up to 10 points and professional experience in the specific field up to 25 points).

Candidates must score at least 50/100 for admission.

The selection process will take place at **9am on 19 February 2018** at the Department of Biomedical Health Sciences (*Dipartimento di Scienze biomediche per la salute*) in via Pascal no. 36, 20133 Milan.



Programme organization

The Master's programme will be held from **9 March 2018 to 29 March 2019** at the Provincial Association of Physicians and Dentists of Milan (*Ordine provinciale dei Medici Chirurghi e degli Odontoiatri di Milano*) in via Lanzzone, 31, 20123 Milan.

The programme comprises lectures and other forms of training such as case studies, practicals and guided study for a total of **508 hours**. Lectures are divided into the following modules:

- Trends and scenarios in the healthcare sector (including private consumption and the insurance-brokerage sector);
- Data analysis for the planning and assessment of services;
- Health economics and funding systems;
- Healthcare and social welfare establishments;
- Budget, planning and control;
- Strategic planning and business planning;
- Organizational development and change;
- Human resources management and development;
- Multi-professionalism in treatment centres;
- Clinical leadership. Management of professionals: personnel management tools and approach;
- Labour law;
- Healthcare quality and risk management;
- Management of safety and crisis situations;
- Operations management and management by process;
- Professional liability;
- Hygiene in treatment centres and management of infection risk;



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- Safety in the workplace;
- Drug management;
- Communication with stakeholders: patient empowerment;
- Innovations in healthcare: telemedicine and telecare.

This will be followed by a traineeship period of **250 hours**.

During the programme, students will undergo written exams aimed at assessing the skills they have acquired.

The final Master's exam consists of the preparation and discussion of a written assignment.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The Master's qualification is worth **60 university credits (CFU)**.

Enrolment fees

Those admitted to the programme must pay an enrolment fee of **€ 5,000.00** (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to **€ 1,516.00**, to be paid by the enrolment deadline;
- Second and final instalment, amounting to **€ 3,500.00** to be paid by **31 July 2018**.

The first instalment includes stamp duty.

Programme Organizational secretariat

Department of Biomedical Health Sciences (*Dipartimento di Scienze biomediche per la salute*)

via Pascal no. 36, 20133 Milan

tel. 02.50315096 fax 02.50315105

e-mail: carla.fortini@unimi.it



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University Training and Permanent Training Division

For administrative enquiries

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via Festa del Perdono no. 7, 20122 Milan

tel. 02.50312302 fax 02.50312300

e-mail: master@unimi.it



Second level Master's programme in Hybrid procedure in persistent AF (Atrial Fibrillation) alone

Learning objectives

Atrial Fibrillation (AF) is the most common arrhythmia seen in clinical practice and it is estimated that 34.5% of admission due to disturbances of the heart rhythm are to treat this condition. Atrial Fibrillation is found in around 1% of the general population and there is an increasing prevalence of AF with increasing age.

Over the years, different procedures to try and treat this pathology have proved unsuccessful.

The sub-optimal success rates of catheter ablation and surgical ablation procedures suggest that successful treatment of persistent atrial fibrillation could be achieved by closer collaboration between cardiac surgeon and electrophysiologist. For this reason, in the last decade, hybrid treatment of AF has gained momentum, combining the best outcomes in terms of restoring the sinus rhythm of the surgical procedure with the minimally invasive and lower complication rate of percutaneous ablation. The success of the procedure stems from the fact that the arrhythmic substrate is attacked both from the outside (epicardial surface) and from the inside (endocardial surface) of the heart.

Results of the hybrid technique have shown high success rates in patients with long-standing persistent AF.

The presence of a team of electrophysiologists and cardiac surgeons has been a determining factor in the procedure's high success rate and low complication rate.

There is therefore a need to train new professionals from these two areas, who are able to learn one another's skills in order to be able to jointly manage this extremely common, but unfortunately still extremely disabling, pathology. The aim of the Master's programme is to form an "AF hybrid specialist" who is able to understand the pathology, know its pathogenetic mechanisms, suggest and manage the best treatment methods and provide valuable information that will make it possible to refine or introduce new procedures and new biomedical devices.



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Employment opportunities

“AF hybrid specialists” may find employment in hospitals with arrhythmology and/or cardiac surgery operative units. The skills they acquire will allow better classification of the pathology, and consequently, better management of the resources employed in the treatment of AF.

The knowledge of promising new methods will make it possible to obtain optimal outcomes in the treatment of AF, using innovative, effective and cutting-edge means.

Places available

The number of places available for admission to the programme is **4**.

The University reserves the right to assess whether it is possible to increase this number.

The University also reserves the right to determine whether or not to activate the programme, should circumstances change.

Admission requirements

The programme caters to those with a long single cycle degree in class LM-41 Medicine and Surgery of former Ministerial Decree 270/2004, or in the corresponding class of former Ministerial Decree 509/99.

Selection process

Admission to the programme is through a written exam, consisting of ECG trace reports, and an interview aimed at ascertaining the candidate’s knowledge of English and their IT skills, and through CV assessment.

Evaluation criteria:

- Written exam: 30%;
- Interview: 30%;
- CV assessment: 40% (the following will be considered: postgraduate specializations, at least one year’s professional experience in electrophysiology operative units, and at least two years’ professional experience in cardiac surgery operative units).



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Candidates must score at least 60/100 for admission.

The selection process will take place at **10am on 21 February 2018** at the Department of Clinical and Community Science (*Dipartimento di Scienze Cliniche e di Comunità*), IRCCS Centro Cardiologico Monzino (aula magna) via C. Parea no. 2, 20138 Milan.

Programme organization

The Master's programme will be held from **14 March 2018 to 13 March 2019** at the Department of Clinical and Community Science (*Dipartimento di Scienze Cliniche e di Comunità*), IRCCS Centro Cardiologico Monzino, via C. Parea no. 4, 20138 Milan.

The programme comprises lectures and other forms of training, such as discussion of clinical cases and practicals, for a total of **506 hours**. Lectures are divided into the following modules:

- Cardiac surgery;
- Electrophysiology;
- Thoracic surgery;
- Materials science and technology;
- Electronic and Computer Bioengineering;
- Anaesthesia and resuscitation;
- Veterinary surgery clinic.

This will be followed by a traineeship period of **275 hours**.

During the programme, students will be assessed through practical tests in the areas of cardiac surgery and cardiology using equipment, clinical cases and diagnostic assessments.

The final Master's exam consists of a practical exam, presentation of a clinical case and diagnostic assessment.

Students are not awarded marks, but a pass/fail judgement for course exams and the final exam; in the case of a 'fail' outcome, the exam must be repeated.

The Master's qualification is worth **60 university credits (CFU)**.



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Enrolment fees

Those admitted to the programme must pay an enrolment fee of € 5,000.00 (including insurance coverage).

The enrolment fee must be paid in two instalments:

- First instalment, amounting to € 1,516.00, to be paid by the enrolment deadline;
- Second and final instalment, amounting to € 3,500.00 to be paid by 31 July 2018.

The first instalment includes stamp duty.

Programme organizational secretariat

Department of Clinical and Community Science (*Dipartimento di Scienze Cliniche e di Comunità*)

IRCCS Centro Cardiologico Monzino

via C. Parea no. 4, 20138 Milan

dott.ssa Fabiana Rossi

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For administrative enquiries

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