



UNIMORE

UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA



Unimore Guide

2023/2024





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Welcome speech by the Rector

"There is a need for what universities present and deliver to society: the transmission of knowledge and its continuous advancement, the continuous horizons."

Sergio Mattarella,
President of the Republic, during the opening ceremony of Unimore's 847th Academic Year

The new Academic Year, which will be the 848th since the University of Modena and Reggio Emilia was founded, coincides with the conclusion of the fourth year of my rector's term, which began on 1 November 2019.

We come to this milestone on the strength of a number of important achievements and recognitions, including the excellent ranking obtained by our university in the Almalaurea and Censis national rankings on the quality of the university system, thanks above all to the excellent consideration we enjoy overall in the evaluation of teaching and employability.

Teaching is an aspect on which we have always paid great attention, because at the heart of our mission as a public university is the training of young men and women, the preparation of professionals who are immediately ready to enter the working environment, and of researchers who are motivated and committed to supporting the very high innovation processes in which we are involved. As an academic community, we strive to realise these objectives on a daily basis, through the construction of a university designed on a student's scale, capable of taking care of students from the moment they decide

to enrol at university and of accompanying them even after graduation on their pathways to work and the professional world.

To achieve these goals, we have developed a series of actions:

- we have intensified, especially through the PhD programme, the participation of our students in research and innovation projects of companies in our region;

- we fostered the international mobility of our students to train them in a global view of problems and make them active participants in an 'open' culture;

- we have extended agreements with foreign academia and intensified exchanges of lecturers and researchers.

All this has increased the prestige and affirmation of our university and has also consolidated the high levels of employability of our graduates, many of whom find favourable job opportunities not only in our region and nationwide but also abroad.

The university we envision for the future will be able to fully, and deservedly, win the trust and recognition not only of the students who attend it, but also of their families and society as a whole.



Just as the university is never a competition, as the student representatives in various institutional venues have rightly reminded us, in the same way students are not a mere “enrolment” number, stand-alone atoms, but the protagonists of the fulfilment of our function, of the success and goodness of our action and our educational project.

For these reasons, we consider it strategic to focus on correct and constant information and timely guidance of incoming young students, so that the choice of the degree programme they choose to follow reflects actual personal vocations and a solid preparation acquired in previous years of study.

This guidance activity, which precedes the moment of choosing a degree programme, is complemented by tutoring initiatives carried out by lecturers, technical staff and students themselves.

Involvement in academic life, thanks to the availability of facilities commensurate with the number of students, is also ensured by the availability of excellent laboratories, numerous computer stations and well-equipped libraries.

We start the new academic year with a teaching programme of 99 degree programmes, 92 of

which are held at the University of Modena and Reggio Emilia and 7 inter-university programmes hosted elsewhere. There are a total of 47 Bachelor's degree programmes, 6 single-cycle and 46 two-year Master's degree programmes.

Therefore, Unimore offers a wide-range of degree programmes, capable of satisfying the vocations and passions of all and sundry, modulated on the acquisition of skill profiles that are easily spendable in the world of work.

Despite these far from simple times, therefore, Unimore is determinedly renewing its mission, which since 1175 has wanted it to be a place of knowledge, by expanding its educational offerings, conceived and meditated on the university model that we want to reflect the demanding tasks of higher education and research that we have set ourselves with the approval of the six-year Strategic Plan.

On the occasion of your enrolment at the University of Modena and Reggio Emilia, I extend a sincere welcome to you, freshmen and future students.

Carlo Adolfo Porro

A handwritten signature in black ink, which appears to read "Carlo Adolfo Porro".

Unimore

90.2% of students are satisfied with Unimore

81.5% of students would enrol in Unimore again

87% of Unimore students are satisfied with their relationship with professors

86% of students considers the equipment for Unimore academic activities (laboratories, practical activities, etc.) to be adequate.

numbers

86.8%

of students
rate
classrooms
as adequate

96% of students
rate the university
library services
positively

1st place in
Emilia-Romagna for
the employment rate
of Bachelor's and
Master's graduates
in one to five years
after graduation

Guidance

The choice of a university pathway often follows a period of consideration and reflection not only on the peculiarities of the degree programmes and the universities in which they are offered, but also on the skills and aptitudes that characterise us and that we would like to properly enhance through our studies. Being informed in good time about the range of degree programmes and university services on offer is therefore essential to guide one's decision towards the most appropriate study choice. Guidance services provide the information needed to create one's own study plan and then, if necessary, appropriate support for specific needs.

Services

The InformaStudenti office provides detailed information on the range of programmes on offer, on student services and on enrolment and administrative procedures (fees, financial benefits, etc.). The InformaStudenti also provides information

on services for the reception and integration of students with disabilities and SLD and on services for international students, information on sports, cultural and leisure activities, and on incoming guidance, tutoring, work and placement initiatives. An individual counselling service is also available, run by the guidance psychologist, a specific professional figure who accompanies students in making their choice or assists them in re-examining their decision (re-orientation) or in carrying out their studies (tutoring).

Activities and Initiatives

As early as the penultimate year of high school, it is possible to gain direct experience of the activities that take place in the university environment by participating in an internship.

Initiatives to describe degree programmes and student services are an opportunity for guidance aimed at helping students in the penultimate and final year of high school to

reflect on their areas of interest and personal motivation.

OFFICE FOR STUDY AND TUTORING COUNSELLING

orientamento@unimore.it
poa.unimore.it
www.orientamento.unimore.it

InformaStudenti
informastudenti@unimore.it

Tutoring
tutorato@unimore.it



Enrolment

Enrolment in degree programmes is carried out on the Esse3 website (www.esse3.unimore.it), which is dedicated to administrative procedures. Before starting the online procedure, you must obtain, in digital form:

- colour photograph of face in foreground with neutral background. The photograph will be reproduced on the Student Card;
- front/back of a valid ID document;
- residence permit (if non-EU student);
- any other documentation (e.g. request for accreditation of teaching activities, part-time application, etc.).

Connect to Esse3 and proceed to "Registration" using your personal SPID credentials. Select "Enrolment" and at the end print the "Enrolment reminder". Under "Fees" proceed to pay the first university fee instalment.

For more information on the university fees and payment methods, see the relevant website <https://www.unimore.it/ammissione/tasse.html>. Upon receipt of payment, enrolment is 'conditional' and will only become effective once the relevant offices have carried out the necessary verifications.

Those with a foreign qualification must carry out their enrolment at the Registrar's Offices.

All incoming students will be given a virtual Student Card to access university facilities and services and will be given a personal e-mail address for institutional communications.

Information on the procedure:
www.unimore.it/ammissione/im-maisc.html

Guides to online procedures:
www.unimore.it/servizistudenti/guideesse3.html

How to proceed

For the academic year 2023-2024, the enrolment period for the open-access Bachelor's Degree and Single-cycle Master's Degree programmes runs from 12 July to 31 October 2023. After the deadline, it will be possible to enrol until 20 December 2023 with a surcharge.

For the two-year open-access Master's degree programmes, you can enrol from 12 July to 20 December 2023, subject to obtaining initial preparation.

Procedures and deadlines for enrolling in degree programmes with limited access, on the other hand, are specified in the notices of admission and the indications given are mandatory.

It is important to know that for Bachelor's degree and single-cycle Master's degree programmes, both open access and limited access, it is compulsory to complete the 'enrolment questionnaire' after payment of the first instalment.

Information on calls for applications:
www.unimore.it/bandi/StuLau.html
www.unimore.it/public/albo/

REGISTRAR'S OFFICES

The Registrar's Offices receive in person and remotely. On some days access is open without an appointment, on other days it is necessary to book an appointment on <https://www.easyacademy.unimore.it/portalePlanning/UNIMORE-SERVIZI/index.php> Locations, methods and times of reception are available on <https://www.unimore.it/servizistudenti/segreteriistudenti.html>

InformaStudenti

informastudenti@unimore.it

Locations and opening hours can be found on:

<http://www.orientamento.unimore.it/site/home/orientamento-allo-studio-e-tutorato.html>

Summer closure of Registrar's Offices:
14 to 18 August 2023

Costs and allowances

Tuition fees

Enrolling at the university involves the annual payment of a sum, which differs according to the different degree and master's degree courses. The costs consist of: all-inclusive tuition fee, regional tax for the right to university study, stamp duty, insurance. Annual fees are calculated according to the student's ISEE: for Bachelor's Degrees, from a minimum of EUR 160 to a maximum of EUR 1,950; for single-cycle Master's Degrees, from a minimum of EUR 160 to a maximum of EUR 2,100; for two-year Master's Degrees, from a minimum of EUR 160 to a maximum of EUR 2,600. Exceptions are the following Degree Programmes: Digital Marketing, Dental Hygiene and Dentistry, which have a different cost calculation. The fee is paid in four instalments and late payment results in a surcharge and the freezing of the exams. The student, in relation to ISEE and ISPE indicators, may obtain an exemption from or a reduction in university fees.

Benefits

Every year, in July, the call for scholarship application is published on both the Unimore and ER.GO websites. It is necessary to participate in the call for applications, by filling out the online applications, for the exemption or reduction of annual university fees and to request: accommodation, scholarships, catering, contributions for international mobility, student collaboration, tutoring for students with disabilities, Top Student exemption. In order to apply for benefits, it is necessary to have the ISEE 2023 certificate for subsidised benefits for the right to university study, which can be obtained from any CAF, accountant,

municipality or INPS. The issuing of this certificate takes a minimum of fifteen days, so it is suggested that you apply in good time. The online application can be submitted even if you are not yet enrolled at university.

Scholarships and fee exemptions

ER.GO awards annual scholarships on the basis of a call for applications. The application must be submitted every academic year. The scholarship's amounts may vary based on: financial situation, place of residence or domicile ("in-site" – "off-site") and "commuter". The application can be completed exclusively online (with SPID or university credentials) or at the CAFs affiliated with ER.GO and can be submitted even if you are not yet enrolled. Those eligible for the scholarship will also enjoy total exemption and "off-campus" students can also apply for accommodation. For the following years, in addition to the financial requirements, it is also necessary to achieve the required number of educational credits (CFUs).

Paid student collaborations

Every year Unimore publishes a call for applications for paid student collaborations. Those enrolled from the 2nd year onwards, with merit (CFU) and financial requirements, may apply by online application. Each collaboration (min. 75-max. 200 hours) can be carried out in administrative offices, libraries or departments. The 3rd year student may also apply to become a Classroom Tutor or Welcome and Tutorial Desk, carrying out this activity in support of teaching and services. For those enrolled in INTERATENEIO programmes, it is possible to carry out this collaboration at the location of

the programme attended.

Top Student

Unimore exempts particularly deserving students from paying the university fees for the first year of the degree programme. In fact, if the grade obtained in the 2022-2023 school-leaving examination is 100/100, it is possible to request exemption, which will be: partial (payment of only the first instalment) for residents in Emilia-Romagna, and total for those living outside the region. This also applies to those who enrol in a master's degree and achieve a mark of no less than 110/110 in the final exam of their degree. This exemption must also be requested by online application, which can be submitted even if you are not yet enrolled at the university.

Study awards

Unimore students can access Study Awards that encourage merit: <https://www.unimore.it/ammissione/premistudio.html>

ER.GO – Azienda Regionale

For the Right to Higher Education
Call, online application, affiliated CAFs
www.er-go.itcontatti <https://www.er-go.it/index.php?id=11>

Student Benefits Office

www.unimore.it/ammissione/diritto-studio.html www.unimore.it/ammissione/tasse.html

Top Student tax exemption

servizi.studenti@unimore.it

Student collaborations

collaborazioni.studenti@unimore.it



Disabilities and specific learning disorders

Unimore commitment to fostering the inclusion of students with disabilities and Specific Learning Disorders (SLD) is continuous and systematic and is achieved through a set of customised interventions that tend to respond positively to the special educational needs expressed by students.

The University Reception Service for Students with Disabilities and SLDs, the University offers the following services:

- individual interviews for incoming guidance at the moment of transition from secondary school to university to identify the most suitable educational pathway and monitoring of the university career;
- mediation in relations with teachers, university offices and peer tutors;
- mentoring by didactic or peer tutors;
- digitisation of texts and work in conjunction with the University Library System in order to provide university texts in an accessible format;
- facilities to promote student autonomy and independence;
- possibility of experimenting with technical, didactic and computer tools supported by specialised staff;
- individual counselling to enhance study methodology;
- outgoing guidance to promote the job placement of graduate students with disabilities;
- sign language interpreting (LIS) for the hearing impaired;
- subtitling of university lectures for hearing-impaired and deaf students;
- removal of architectural barriers;
- reception desk for information and advice;
- provision of information material on

the services provided;

- support for international exchanges;

Students with disabilities can also take advantage of various types of benefits that allow them to fully realise their right to study:

- benefits available to all students and granted in relation to the possession of merit requirements and/or economic conditions;
- partial or total exemption from paying fees based on the degree of disability and possession of Law 104;
- benefits for students with disabilities specifically regulated;
- customised actions.

Tutoring for students with disabilities and SLDs

This service organises a specific course aimed at students to train them in the culture of disability and DSA as tutors, an individual support figure

who facilitates university attendance and passing university examinations for students with disabilities and/or SLDs.

Tutoring, which can be accessed through an online application, may consist of, for example:

- in classroom support, note-taking and mediation with lecturers and fellow students;
- in helping to carry out daily tasks and assisting in all the different situations of university life;
- in supporting individual study in order to help succeed in university examinations;
- in supporting students with disabilities when travelling between university facilities.

RECEPTION SERVICE FOR DISABLED STUDENTS AND STUDENTS WITH SLDs www.asd.unimore.it

For disabled students of Modena campus
disabilita@unimore.it

For disabled students of Reggio Emilia campus
servizioaccoglienza.re@unimore.it

For Students with SLDs in Modena Campus
dsa@unimore.it

For Students with SLDs in Reggio Emilia Campus
dsa.re@unimore.it

To request and collect support materials
ausili@unimore.it

Rector's Delegate for Disability and SLDs

Prof. Elisabetta Genovese
tel. 059 4224130
elisabetta.genovese@unimore.it

Rector's Delegate for Disability and SLDs

Giacomo Guaraldi
tel. 059 2058311 - 0522 523506
giacomo.guaraldi@unimore.it

Study Support

Tutoring

The purpose of tutoring is to guide and assist students throughout their studies, to make everyone active in their own educational process and to support successful course attendance, with initiatives tailored to individual needs, aptitudes and requirements.

If there are difficulties in preparing for a particularly difficult exam or in relating the contents of the various disciplines, it is possible to turn to the course tutors whose task is to accompany students throughout their studies, with methodological and didactic support.

An important role in tutoring is played by teaching coordinators and student tutors, i.e. senior students identified from among those enrolled in the later years.

Students can access an on-line course on the Study Method (STUDIAREFFICACE), which offers suggestions and ideas to better understand the university system and, above all, to learn organisational strategies useful for effective study to take exams. It is a short course consisting of video lectures that can be followed at home with some suggested practice materials and an assessment test to help understand what has been learnt.

If students are experiencing difficulties in continuing their studies and want to re-evaluate the choice they have made, they can contact the guidance psychologist for an individual talk.

International Welcome Desk

Welcoming international students represents a specific commitment for Unimore. For this reason, international students have at their disposal the International Welcome Desk, a desk that deals with the initial reception and offers advice and assistance in the procedures for applying for and renewing residence permits, obtaining a tax code, registering with the National Health Service (SSN), taking out health insurance policies, opening current accounts, as well as housing advice. The International Welcome Desk also provides information on the organisation of the University and on the cities of Modena and Reggio Emilia.

Part-time student

If for various reasons, work or personal, it is not possible to study full-time, in some courses of study there is the possibility of enrolling on a part-time basis.

In this way, it is possible to divide the attendance of educational activities and related examinations scheduled in a year into two academic years; the student is bound to enrol in the same academic year for two years. Those who choose the part-time mode may take a number of university credits (CFUs) ranging from a minimum of 25 to a maximum of 35. For students enrolled on a part-time basis, there is a reduced annual university fee.

INTERNATIONAL WELCOME DESK

internationalwelcomedesk@unimore.it

On-line Platform:

www.isu-services.it/it/universities/universita-di-modena

www.internationalrelations.unimore.it

Libraries

University Library System - ULS

The ULS is a centre that coordinates the activities and services of Unimore network of university libraries. The 7 Unimore libraries, 6 in Modena and 1 in Reggio Emilia, are specialised in the different subject areas of the University:

- Law library
- Economics library Sebastiano Brusco
- Humanities library
- Medical library
- Interdepartmental scientific Library
- "Enzo Ferrari" Science and Technology Library
- Interdepartmental library of Reggio Emilia

The document collections and library services are aimed, in particular, at all those who study, work or collaborate with Unimore, but access to the libraries and services and use of the collections is also possible for external users, in accordance with the specific regulations, which can be consulted on the websites of each library.

The ULS offers specific services and paths for every study and research need, accessible both in presence, in the library, and remotely, also thanks to the VPN service.

Digital collections and online consultancy services are continuously enhanced to meet the needs of remote students as well. All face-to-face services, including lending and access to study rooms, can be organised by appointment if necessary.

Services

- 1400 reading places
- On-site consultation of printed books and journals, online consultation of digital collections
- Bibliographic searches in catalogues and databases: in particular with the BiblioMore online catalogue (also available as an app for smartphones and tablets) and with the OneClick discovery tool (www.oneclick.unimore.it) which allows simultaneous searches in catalogues, databases, electronic periodicals, e-book collections and institutional archives
- Book loans, also by appointment
- Inter-library loan and document supply for books and journals not included in the Unimore Libraries' collections
- Provision of books in accessible format for the needs of Unimore students with disabilities and SLDs (libriaccessibili@unimore.it)
- Assistance in bibliographical research both in presence and remotely, also thanks to the online consultancy service Ask the Librarian (www.chiedialbibliotecario.unimore.it)
- Advice to lecturers and researchers on publication strategies, research data management, open science and internal and external evaluation procedures
- Seminars and training programmes for students and PhD students on bibliographic research and thesis writing, both in the classroom and in online or blended learning mode
- Photocopying and printing from PCs
- Internet, wireless and VPN (Virtual Private Network) service to access bibliographic resources by subscription also from outside the University network

- Opening of some libraries in the evenings and at weekends

The services of the Unimore Library System and Libraries are also on Instagram (@sba_unimore) and on YouTube with the "BiblioSpot" video series and with tutorials that are always up-to-date:

- youtube.com/user/sbaunimore/ videos

University Library System - ULS

sba@unimore.it

www.sba.unimore.it

www.libraries.unimore (English version)

via Campi, 213/c - 41125 Modena

tel. 059 205 5506 / 5769

University Language Centre

The University Language Centre (ULC) is an organisation that provides services and carries out research activities in the field of advanced foreign language teaching, having the University of Modena and Reggio Emilia and its territory as its privileged interlocutors.

The main mission of the ULC is the teaching of foreign languages and Italian L2/LS in all the departments and organisational units of the University. The courses offered by the ULC aim to promote language learning in the academic environment, guiding users in the development of the necessary communicative skills. In order to effectively achieve these goals, the Centre collaborates with selected mother-tongue teachers and experienced language technicians. The ULC's language offering is broadly articulated between face-to-face, e-learning, blended and on-line teaching in order to meet both the specific demands of the degree programmes and the needs of the students.

Further services provided by the Centre include:

- computerised testing of language skills;
- language refresher programmes for staff and lecturers;
- the issuing of international certificates (from 2022 this service will also be available to the general public);
- collaboration projects with national and international bodies and institutions in the field of language training and assessment;
- collaboration projects with local organisations to promote the dissemination of Italian and foreign culture, also through the screening of films in the original language.

The fields of study and in-depth study concern:

- the use of new technologies applied to foreign language teaching (corpus linguistics, multimedia and multi-modality, computerised testing);
- the development of language

teaching for specific and academic purposes;

- the problems of communication and translation in the context of the Digital Humanities.

ULC - UNIVERSITY LANGUAGE CENTRE;

ULC - University Language Centre
Largo SANT'EUFEMIA, 19 · Modena

www.cla.unimore.it





EDUNOVA Inter-university Centre

Edunova coordinates e-learning related areas, from online support to didactics, remote attendance and BLENDED teaching (BLS).

Since 2014 it has been the administrative headquarters and participates in the EDUNOVA Inter-Area Centre, with the Universities of Parma, Ferrara and Venice.

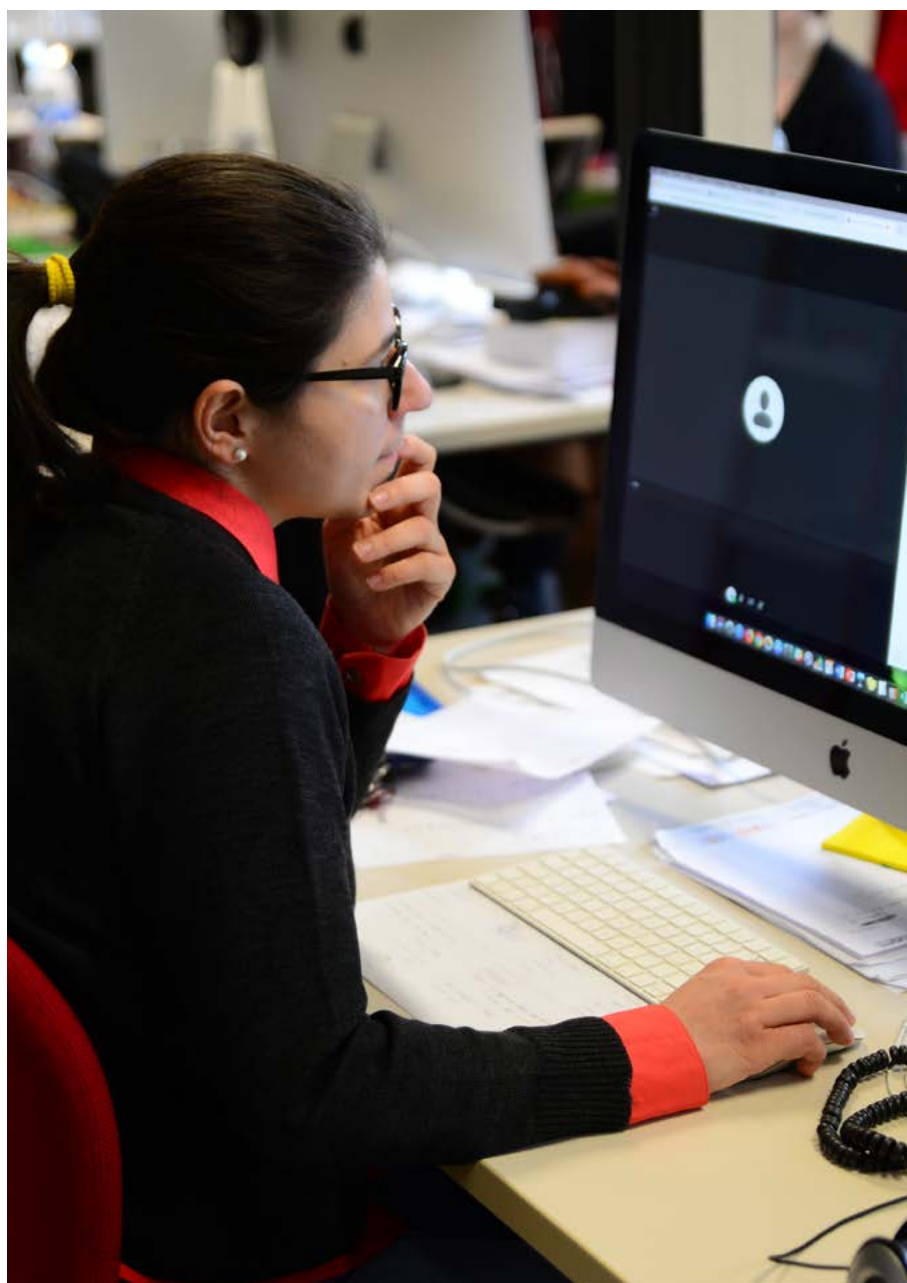
The most significant experience relates to the management of entire online and blended degree programmes as well as other training paths, such as masters and post-graduate programmes, and the production of multimedia teaching materials. The preferred approach is the blended one, in which online and face-to-face teaching are appropriately blended according to the needs of the training programme. The model adopted envisages a widespread presence of lecturers, tutors and tutorials with in-presence assessments at the teaching sites. In 2014, the BLECS-Blended Courses experiment for individual teaching was launched, involving more than 2500 students.

The EDUNOVA/CEA Centre collaborates with university departments in the preparation of lecture schedules and classroom occupancy management and proposes experimentation and teaching innovation activities. The Edunova Centre has been coordinating, since 2015, the national network for Open and Digital Education, EduOpen (www.eduopen.org) joined by 22 university institutions and offers open and free university teachings following the logic of issuing micro-credentials. It is also active in the research and experimentation of innovative teaching methodologies and open-source

technologies to support teaching activities.

EDUNOVA Inter-university Centre

tel. 0522 522521
Viale Timavo, 93,
42121 Reggio Emilia
www.edunova.it



Blended and Predominantly Distance Learning Degree Programmes

For some degree programmes there is the possibility of remote learning or online services.

In particular, some degree courses are delivered in 'mixed' mode (Blended - BLS) or in Predominantly Distance Learning mode (PDL).

These modes of online attendance represent an innovative approach to teaching and favour the use of contents also in remote mode. It is also particularly suitable for those who, for work or distance reasons, cannot attend lectures regularly. Among the first in Italy, in 2002 Unimore activated online degree programmes.

The degree programmes delivered in 'blended' mode (Blended-BLS) and/or with individual courses delivered in blended mode (BLECS), are programmes delivered partly online and partly face-to-face.

The innovative mixed or blended mode (BLS - Blended learning system) was recently introduced (DM 47 of 30/01/13 and subsequent amendments) and in compliance with ANVUR guidelines. This method enhances the potential of information technologies applied to teaching and in particular multimedia, interactivity, the use of technological systems, the accessibility of content and the flexibility of student use. It envisages the combination of face-to-face teaching, in the classroom, with remote teaching, delivered online. Face-to-face activities take place for at least 50% of the total hours, while e-learning takes place for no less than 30% and no more than 50% of the total, with respect to the teaching load.

The Predominantly Distance Learning mode is a particular characterisation of the 'Blended' mode in which on-line training activities take

place for a minimum of 66% of the total and thus represents a further facilitation for distance attendance. In both cases, Blended or Distance Learning, all face-to-face lessons are in any case streamed and recorded. The didactic model involves all the subjects of the degree programme, except those of a technical-practical, laboratory or experiential nature. The final proficiency examination for the individual discipline is conducted exclusively in person at the university's premises, in accordance with the procedures set out in the current didactic regulations and as indicated by the lecturer. For administrative procedures, from enrolment to degree application, the student is assisted by the online Registrar's Office.

The adoption of a Blended or Predominantly Distance Learning approach represents an important technological innovation.

BLENDED DEGREES

www.blended.unimore.it

Bachelor's Degrees

[L-19] Digital Education (Primarily Remote Mode)

[L-24] Psychological Sciences and Techniques

[L-14] Legal sciences for business and public administration

Two-year Master's Degrees

[LM-77] Labour relations

Support:

EDUNOVA inter-university Centre
University E-learning Centre
Viale Timavo, 93,
42121 Reggio Emilia



Erasmus+ Programme

Internationalisation is a priority for Unimore and the international nature of university studies is implemented through student mobility, with the presence of international students and lecturers at the University and the possibility of spending a period studying abroad.

As part of the Erasmus+ Study Mobility Programme, the University offers all enrolled students the opportunity to spend a period of 2 to 12 months during their studies at one of the many partner universities, with which numerous agreements have been signed over the years. Erasmus students can follow courses, take examinations and use the facilities of the host university without paying its fees and are guaranteed academic recognition of their activities abroad. Students are selected by means of a university call for applications. The European Commission pays a monthly contribution, which varies according to the country of destination.

The Erasmus+ Programme also allows mobility for Traineeships for its students, with annual selection through a call for applications, and allows them to spend a period of time as trainees in institutions or companies in one of the states participating in the programme. Students have the opportunity to acquire specific and transversal skills in the disciplines of their degree programme and socio-cultural knowledge of the host country, deepening their language skills and acquiring professionalism capable of integrating theoretical knowledge and enhancing soft skills. The experience becomes an integral part of the academic curriculum and is approved in terms of educational credits.

The Community contribution is a

scholarship that varies according to the cost of living in the destination country.

The programme also includes student mobility to institutions in non-European countries. Admitted activities are teaching attendance and examinations and/or thesis preparation. These activities are recognised upon return. The monthly amount of the grant is EUR 700.

For those enrolled in PhD programmes, the programme offers the possibility of short-term mobility periods in both European and non-European countries of between 5 and 30 days. The EU contribution in this case is daily on the basis of duration (€70 up to the 14th day and 50 euros from the 15th to the 30th day).

Unimore issues its graduates with the "Diploma Supplement", a certificate in Italian and English adopted by all the countries adhering to the Bologna Process, which contains information on the educational path followed by the student in order to obtain the degree.

The presence of international students, whether enrolled at Unimore or from partner universities, for a period of study indirectly guarantees the international dimension even for those who do not participate in mobility programmes. For this reason, welcoming foreign students is a specific commitment for Unimore, and for this reason the International Welcome Desk has been set up, a desk that deals with the initial reception and offers advice and assistance in dealing with bureaucratic procedures, also providing information on the organisation of the University, on the opportuni-

ties open to students and on the two cities of Modena and Reggio Emilia. The desk also offers assistance to 'outgoing' international mobility students in relation to the country of destination.

The International Relations Office also manages international students arriving at Unimore to undertake a period of mobility (incoming students) and during the academic year, with the collaboration of the International Welcome Desk, Student Associations and the Language Centre, it organises the welcome day and a series of social and cultural activities specifically for them.

INTERNATIONAL RELATIONS OFFICE

studentmobility@unimore.it
www.unimore.it/mobilita/
www.international.unimore.it/exchange.html

Diploma Supplement

www.unimore.it/servizistudenti/diplomasupplement.html

International Welcome Desk

internationalwelcomedesk@unimore.it
www.international.unimore.it/wdesk.html



Job opportunities

Every year, the AlmaLaurea Report on the Condition of Graduates attests to the excellent performance achieved by Unimore graduates, especially in terms of employment rates and the time it takes to find a job; these figures become even more significant when compared with those of other universities, and thus the national average.

The results obtained are due to an economic environment able to facilitate the entry of our graduates into the world of work quickly, even in times of crisis, and to the strategic importance that Unimore has always recognised in the development and promotion of relations with local economic and social forces.

Unimore supports the study/work transition with the activities and services of the Work Guidance and Placement Office, which can count on a vast network of relationships and collaborations with companies and organisations, not only locally but also outside the region.

The following individual and/or group counselling services are available throughout the degree programme: defining a personal career project; CV writing and editing; how to deal with a selection interview; active job search techniques. These activities aim to help students make conscious career choices by increasing the amount of information they need and deepening their self-knowledge.

As students approach the end of their degree programme, they can deepen their know-how in order to enter the world of work properly. These are the services: 1. Online notice board of job and internship

opportunities for graduates; 2. Meetings with companies for undergraduates and graduates with informative talks and delivery of CVs; 3. Thematic seminars and workshops (Business Management, International Mobility, Employment Contracts, Professions...) and meetings with experts and significant witnesses from the world of work; 4. University Career Day, which is the main opportunity for graduates and companies to meet; it is held annually and is aimed at developing opportunities to enter the world of work; 5. Companies can consult the database of Unimore students' and graduates' curricula free of charge and contact potential candidates directly.

Internships

An internship is a vocational training experience, in companies and public and/or private organisations contracted by the University, which offers students and recent graduates the opportunity to gain direct experience of the world of work and to develop the expertise acquired during their academic training. Internships are divided into curricular and extracurricular. The curricular internship is aimed at obtaining an academic degree and is an integral part of the university career. Compulsory or optional, depending on what is established by each degree programme, it allows the acquisition of credits. The extracurricular traineeship is a professional training experience for recent graduates of no more than 12 months, enabling them to acquire professional skills and abilities.

The Internship Offices of the Departments take care of the organ-

isational and administrative formalities relating to the activation of internships for students and recent graduates, acting as an interface between the university lecturer supervising the intern (scientific tutor), the host company (company tutor) and the intern.

OFFICE FOR CAREER COUNSELLING AND PLACEMENT

placement@unimore.it
www.orientamento.unimore.it

Employment Status of Graduates 2021
Work within 1 year of a Bachelor's degree
Unimore 43.3%
National aggregate: 35.7%

Work within 1 year of a Master's degree
Unimore 77%
National aggregate: 62.5%

Source: Occupational Status of Graduates, 2022 - AlmaLaurea

Masters, PhD programmes and postgraduate programmes

Sometimes, in order to establish oneself in the profession, it is necessary for the student to acquire further specific training to be able to compete in a labour market that often exceeds national limits. It is for this reason that in all modern university systems, postgraduate training assumes the strategic function of acquiring appropriate specific scientific and technological knowledge. After obtaining a Bachelor's or Master's degree, depending on the qualification obtained, university training can continue in PhD, 1st and 2nd level Master's, Postgraduate and Specialisation programmes.

PhD Programmes

The PhD is the third and highest degree of academic education in Italy. The training programme lasts three years. The PhD Activity, including possible periods of study abroad and internships at public and private entities, is aimed at the acquisition of a correct methodology of scientific research, including the use of new technologies.

In order to be admitted to the programmes, in addition to a sound basic preparation, a selection procedure is envisaged through the issuing of calls for applications in which the participation requirements, the number of places available, and the number and amount of scholarships made available are indicated in detail. About 70% of the places are financed by ministry or university grants. The PhD degree is awarded upon passing the final examination, in which the candidate discusses his/her thesis. The Athenaeum has decided that those enrolled in the PhD programme are exempt from contributions, as they only have to pay the fixed fees of

around €160 for enrolment.

University Master Programmes

The master programme is an advanced scientific and higher teaching. It is a training initiative supporting excellence in professional activity. In fact, the use of the term "master" is intended to emphasise the advanced professional training character typical of these advanced training courses. The aim of all programmes is to provide know-how and technical-operational or project-related skills, also aimed at enhancing skills developed during work experience. Master's programmes can be run directly by universities or by consortia between universities and companies, public or private bodies and institutions. The Master's degree can be Vocational, which can be accessed with a Bachelor's degree, and Advanced, which can be accessed with a Master's degree or an old system degree. Admission is restricted to a limited number of students and is subject to a selection procedure. The programme consists of classroom lectures, laboratory activities and tutorials; the training also includes a period of internship at institutions or companies. The Master's degree is awarded with the acquisition of at least 60 credits and at the end an academic title is issued.

Specialisation Programmes

The Short Professional Programmes are activated directly by the universities to meet the need for refresher or retraining education of graduates. The various requirements of these courses (admission, duration, contents, course procedures, possible final examinations, etc.) are

defined and indicated by the single universities. They normally last no longer than one year. At the end, a certificate of attendance is issued and in some cases training credits are awarded.

PhD Office

Via Università 4, 41121 Modena
Tel. 059/2056423
E-mail: segr.dottorati@unimore.it

State examination office

Via Università 4, 41121 Modena
Tel. 059/2056423
E-mail: esamidistato@unimore.it

Teacher training office

Via Università 4, 41121 Modena
Tel. 059/2056097

E-mail: formazioneinsegnanti@unimore.it
www.unimore.it/didattica

Modena and Reggio Emilia are cities on a human scale, in the heart of Emilia Romagna and Italy. They are cities with ancient history and traditions and have developed as dynamic and industrious economic and social realities, the beating hearts of the country. They are also lively places, rich in an incomparable gastronomic tradition and the most versatile cultural and sporting activities. The delightful venues that enliven the streets of the historic centre, the numerous theatres, museums, and the proximity to many places of interest offer students interesting and productive experiences and an excellent opportunity for growth. The Athenaeum is an integral part of the city: the campuses are located in several locations, are easily accessible and interconnected thanks to an efficient public transport system and a well-developed network of cycle paths. A degree programme has recently been launched in nearby Mantua, a city rich in art and culture and with priceless treasures, the birthplace of the poet Virgil, all to be experienced and visited, preferably by bicycle.

Accommodation

The offer of accommodation for 'off-campus' students is extensive and offers various alternatives. You can apply for university accommodation at one of the residences of ER.GO, the Azienda Regionale per il Diritto agli Studi Superiori dell'Emilia Romagna. The rooms are cosy and equipped with a wide range of services such as study rooms, wi-fi connection, kitchen on the floors and laundry facilities. Alternatively, the online notice board can be consulted, which contains advertisements of private individu-

als who rent flats and/or rooms to students. The "Paolo Giorgi" student residence in Modena and the "Mascagni" university residence in Reggio Emilia are also listed on the same web page. For temporary housing needs, you can consult the Borsino alloggi from the ER.GO website where free places that can be assigned out of competition are highlighted.

Unimore students can also reside at the prestigious Collegio San Carlo institution, which offers not only an excellent accommodation service, but also the opportunity to take part in specific teachings and the broad cultural offer of the Foundation of the same name. The "international" student can benefit from the support of the International Welcome Desk.

Eating and Drinking

In Modena and Reggio Emilia there is a network of eating establishments where university students can enjoy full meals at special prices. On the Unimore and ER.GO websites, you can consult the list of eating establishments with the relative prices.

Transports

Modena and Reggio Emilia are interconnected by the railway network and an efficient urban public transport network is active in both cities. Every year the University draws up an agreement to offer its students the possibility of purchasing an annual season ticket at favourable prices. For freshmen on Bachelor's and Single-cycle Master's degree programmes it is further discounted if activated by the end of October. It is usual and easy to get around by

bicycle, thanks also to the network of cycle paths.

Students who are subscribers to the regional railway service will be able to travel free of charge on the city buses of the cities of Modena and Reggio Emilia. This is the objective of "Mi Muovo anche in Città", aimed at encouraging public mobility for an increasing number of users, offered free of charge by the Emilia Romagna Region.

ACCOMMODATION

ER.GO – Azienda Regionale per il Diritto agli Studi Superiori
www.er-go.it
 contacts: www.er-go.it/index.php?id=11

Unimore

www.unimore.it/servizistudenti/alloggi.html

Fondazione UniverMantova

<https://www.unimn.it/>

International Welcome Desk

www.internationalrelations.unimore.it/site/home/welcome-desk.html

Collegio San Carlo

www.fondazione sancarlo.it

Eating and drinking

www.unimore.it/servizistudenti/mense.html

Transport

www.unimore.it/servizistudenti/trasporti.html

SETA spa

www.setaweb.it

"Mi Muovo anche in Città" Region Emilia Romagna

<https://mobilita.regione.emilia-romagna.it/mi-muovo/sezioni/i-titoli-di-viaggio-integrati-1>

More than study

Who represents me

Students are represented in the University's governing bodies. The student conference promotes and coordinates student participation in the university organisation. For info: www.unimore.it/servizistudenti/rappstudenti.html.

Students associations

You can join student associations at Unimore (www.unimore.it/servizistudenti/assostu.html) that promote cultural, social, sporting and recreational initiatives.

Insurance

Students enrolled at Unimore enjoy accident insurance cover, the annual premium is paid at the time of payment of their university contribution. Students enrolled in the Faculty of Medicine and Surgery also enjoy insurance cover for risks arising from the practice of medicine.

Call for cultural and social activities

Unimore annually supports cultural and social initiatives and activities, relevant to the university, proposed by students.

Find out more at www.unimore.it/servizistudenti/assostu.html.

Choir

The University Student and Cultural Association "Choir of the University of Modena and Reggio Emilia" was set up to promote aggregation and socialisation among university students and the development of cul-

ture in the territory through musical, vocal and instrumental expression.

Student Card

It is necessary to enter the broader and more complete world of services connected to this card because it is the document that proves student status. The Student Card is issued upon enrolment at Unimore and remains valid for all years of enrolment. It can be used to take advantage of discounted subscriptions to the urban transport service, to take advantage of the services offered by the CUS - Centro Sportivo Universitario (University Sports Centre), or to access the programme of shows offered by the theatres with subscriptions or tickets issued at particularly advantageous and exclusive conditions.

CUS University Sports Centre

www.cusmodena.it

Leisure time

www.unimore.it/servizistudenti/tem-polibero.html

FSC-Unimore Radio

www.radiofsc.it

Radio Rumore

www.rumoreweb.it

Student associations

www.unimore.it/servizistudenti/assostu.html



Sports

For years now and through several initiatives and actions, Unimore has committed to support its students engaged in sporting activities at a high level, in the belief that study and sport share an essential imprint on their education. Unimore was one of the first Italian universities to sign an agreement with CONI to support university training activities for student athletes. The dual-career Unimore Sport Excellence programme was born thanks to this agreement. In the awareness that sporting activity, even when it remains a passion and a form of entertainment, is an opportunity for growth and the acquisition of skills for everyone, Unimore has also undertaken to promote a real culture of sport and inclusion, for the pursuit of healthy lifestyles marked by wellbeing, through initiatives and projects aimed at the university community and the local area. The CUS Mo.Re, a sports federation recognised by the Italian National Olympic Committee (CONI), is also present at the university. The institutional task of CUS Mo.Re is to promote and organise the amateur and competitive sports practice of university students. Its activities are also aimed at the entire university community and citizenship.

UNIMORE SPORT EXCELLENCE and UNIMORE SPORT EXCELLENCE PLUS

The Unimore Sport Excellence programme is the project dedicated to young high-level athletes who wish to best reconcile competitive sport and university commitment. It allows access to the so-called dual career, a system of benefits and tools that the University offers to facilitate the fulfilment of a university career in parallel with competitive activity. The Unimore Sport Excellence Plus programme, on the other hand, is designed to support the post-graduate university training activities of athletes pursuing a competitive sports career of national and/or international interest. It is aimed at students enrolled in Vocational and Advanced master programmes, PhD programmes, medical specialisation programmes. A supplementary diploma is envisaged for both programmes upon completion of studies at Unimore.

Several research laboratories are also active in Unimore, dealing with sport in relation to various scientific disciplines such as computer science, psychology, biomechanics, materials engineering, social sciences, molecular biology, sports medicine and neuroscience.

CUS University Sports Centre

<https://www.cusmodena.it/>

<https://www.sport.unimore.it/>

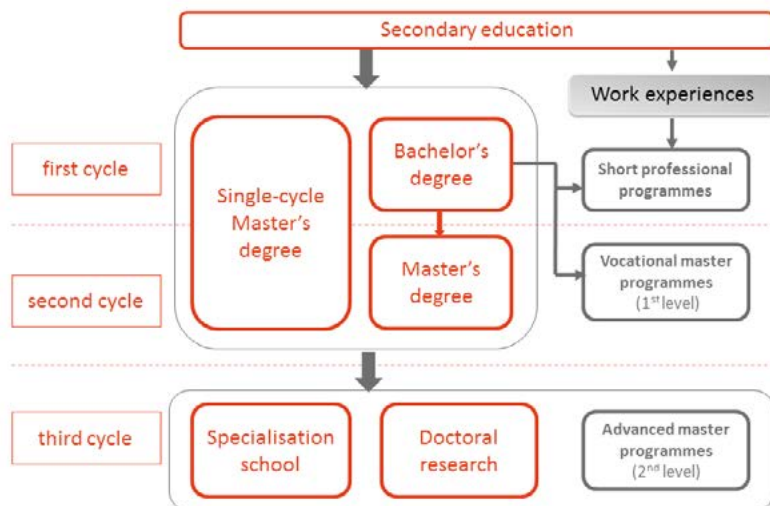


Studying



at Unimore

The university system



To achieve the Master's Degree in single-cycle programmes and be awarded the relevant study qualification, students must have accrued 300 or 360 CFUs (University Training Credits), depending on the duration of the programme.

After the university degree

After obtaining a bachelor's or master's degree, depending on the qualification acquired, university training can be continued in Vocational Master Programmes, Advanced Master Programmes, PhD programmes, and Specialisation Schools. At the end, students are awarded the title of university master programme, PhD, and specialist respectively. The duration of these study programmes varies from a minimum of one year up to a maximum of 6 years.

CFU - University Training Credits

The CFU is the unit of measurement of work required from the student for the completion of any training activity prescribed by the teaching regulations of the study programmes to achieve a university degree. Each CFU of bachelor's and master's degree programmes corresponds to 25 hours of average commitment per student. The CFUs are acquired by the student when successfully passing the exam or any other form of activity assessment.

Training activities

By training activity, we mean any activity organised or planned by universities to ensure the cultural

The teaching offer is divided into study programmes organised on two levels, in sequence with each other.

First-level, Bachelor's Degrees

The degree ensures adequate mastery of general scientific methods and contents and is aimed at acquiring specific knowledge and professional skills. The normal duration of the degree programme is 3 years. To be admitted, students must hold a secondary school diploma or other qualification obtained abroad, recognised as suitable. To be awarded a degree, together with the academic qualification of doctor, students must have accrued 180 CFU (University Training Credits) including those relating to the compulsory knowledge of a foreign language.

Second-level, Master's Degrees

The master's degree offers ad-

vanced level training for the exercise of highly qualified activities in specific areas. The normal duration of master's degree programmes is 2 years. To be admitted, students must hold either a university degree, a three-year university degree, or another qualification obtained abroad, recognised as suitable. To achieve the master's degree, together with the academic qualification of master's graduates, students must have accrued 120 CFU (University Training Credits).

Single-cycle Master's Degree

In the cases provided for by national or European Union legislation, Master's Degree Programmes can be on a single cycle, that is to say it consists of a training programme to which students holding a secondary school diploma, or other qualification obtained abroad and recognised as suitable can access, for a normal duration of 5 or 6 years.

and professional

training of students, with reference, inter alia, to teaching courses, seminars, practical or laboratory exercises, teaching activities in small groups, tutoring, guidance, internships, projects, theses, self-study, and self-learning activities.

Degree classes

The study programmes are grouped into degree classes and master's degree classes. The class is indicated by a number and brings together the courses with the same educational objectives, defined by law, that is, the set of knowledge and skills characterising the cultural and professional profile of the study programme. Programmes activated in the same class have identical legal value. Degrees and master's degrees are issued with the indication of the ministerial class to which they belong.

Curriculum

Articulation within a study programme, defined by a group of specific disciplines.

OFA Additional Training Obligations

Access to the University is subject to a mandatory test of the academic background knowledge that is necessary to successfully attend the degree programme. The outcome of this verification can attribute to the student additional educational obligations (OFA) that are to be completed within the first year of the course. By attending specific courses organised by the University, students are facilitated in the recovery of these educational obligations and

are more likely to successfully pass the final assessment test.

Academic year

It represents the period during which lessons, exam and graduation sessions take place. Educational activities usually begin no later than 1 October and end no later than 30 September of the following year.

Teaching activities

The teaching activity is normally divided into two teaching periods (semesters) and generally begins on 1 October. The exam session is unique, it begins on November 1st and ends by April 20th of the following academic year. There are various exam sessions during the periods of interruption of lessons.

Access

Access to degree programmes can be limited at national or local level, or unlimited. To enrol in a degree programme with limited number of places, students need to pass an admission exam. They are regulated by specific calls for applications. Programmes with no limited number of places do not require a selection procedure; however, it is mandatory to take a test to assess the academic background knowledge.

Exam

It represents the assessment of the student's achievement with respect to the training activity carried out. The exam score is expressed out of thirty.

Final Examination

The bachelor's and master's degrees are awarded, together with the relative academic qualification, after passing the final exam.

Bachelor's Degrees and

Society and Culture

Bachelor's Degrees

Based in Modena

Business Administration and Management **P**
 Economics and Finance **P**
 Economics and International marketing **P**
 European Languages and Cultures **P**
 Legal sciences for business and public administration **L B**
 Strategic science (Reserved to students of the Academy)
 Contemporary history and cultures **L**

Based in Reggio Emilia

Data analysis for business and finance **L**
 Digital Education **L D**
 Digital Marketing **P**
 Marketing and business organisation **P**
 Communication sciences **P**
 Education for early childhood services and socio-pedagogical contexts **P**
 Psychological Sciences and Techniques **P B**

Single-cycle Master's degrees

Based in Modena

Law **L**

Based in Reggio Emilia

Primary teacher education **P**

Health

Bachelor's Degrees

Based in Modena

Dietetics **P**
 Dental Hygiene **P**
 Nursing - Modena **P**
 Midwifery **P**
 Cardiocirculatory and Cardiovascular Perfusion Techniques **P**
 Biomedical Laboratory Techniques **P**
 Imaging and Radiotherapy Techniques **P**

Based in Reggio Emilia

Health care **P**
 Physiotherapy **P**
 Nursing - Reggio Emilia **P**
 Speech Therapy **P**
 Psychiatric Rehabilitation Technique **P**
 Occupational Therapy **P**

Single-cycle Master's degrees

Based in Modena

Medicine and Surgery **P**
 Dentistry and Dental Prosthetics **P**

Single-cycle Master's degrees*

(*) The activation of degree programmes is in any case subject to the successful conclusion of the ministerial accreditation process and updates, including study plans, will be available online at: www.unimore.it

Science

Bachelor's Degrees

Based in Modena

Chemistry **P**
 Physics **L**
 Computer Science **P**
 Mathematics **L**
 Geological Sciences **L**
 Natural Sciences **L**

Life

Bachelor's Degrees

Based in Modena

Biotechnologies **P**
 Biological Sciences **P**

Based in Reggio Emilia

Agricultural and Food Sciences and Technologies **P**

Single-cycle Master's degrees

Based in Modena

Pharmaceutical Chemistry and Technology **P**
 Pharmacy **P**

Technology

Bachelor's Degrees

Based in Modena

Constructions and territorial management **P**
 Civil and Environmental Engineering **L**
 Human Centred Medical System Engineering **L**
 Vehicle Engineering **P**
 Electronics Engineering **L**
 Information Technology Engineering **P**
 Mechanical engineering **P**

Based in Reggio Emilia

Management Engineering **L**
 Mechatronic Engineering **P**
 Technologies for the Smart Industry **P**

Based in Mantua

Computer Engineering – Mantua **L**

Key

L · Unlimited access

P · Limited number of places

B · Course delivered in blended mode

B · Course delivered mainly in distance learning mode

EN · Course delivered in English

Degree / Society and Culture

Business Administration and Management

Facility: Viale Berengario, 51
41121 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-18 Class of bachelor's degrees in economics and business management sciences

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Public law (6)
Business administration (12)
Economics and business management (6)
Computer science (proficiency) (3)
Introduction to microeconomics (9)
English language (proficiency) (6)
General and financial mathematics (12)
Economic history (6)

SECOND YEAR

Business financial report (6)
Private and commercial law (12)
Economics of Financial Intermediaries and Finance (9)
Banking economics and management (6)
Introduction to macroeconomics (9)
Public finance (6)
Statistics (9)
An exam to be chosen among the following:
- Labour law (6)
- Principles and models for managerial decisions (6)

THIRD YEAR

Tax law (6)

An exam to be chosen among the following:
- Credit and sustainable finance (6)
- Programming and control (6)
12 CFUs obtained from these elective teachings:
- Securities Market Economics (6)
- Ethics and
Corporate Social Responsibility (6)
- Corporate finance (6)

An exam to be chosen among the following:
- Marketing and Technology (6)
- HR organisation and management (6)

Elective learning activities (12)
Internship (12)

Final examination (3)

PRESENTATION

The Degree Programme in Business Administration and Management addresses students who want to take on a management career in commercial, industrial, financial, and no-profit businesses, as well as students interested in working as self-employed professionals or start independent entrepreneurial activities.

The knowledge and skills gained during the degree programme may be flexibly adapted to several placements and needs required by the job market.

In addition, in order to enable choices meeting each student's personal preferences, the Degree Programme gives students the opportunity to tailor their study path.

The Degree Programme provides for training internships (300 hours) in public and private companies, both on a national and international level.

PROGRAMME CONTENTS

Business Administration and Management provides all teachings required to gain both a theoretical and practical sound managerial background. In the first part of the degree programme, the fundamentals of business, law, economics and mathematical-statistical disciplines are acquired. The second part is designed to develop skills in the various disciplinary fields of management and finance, and gain the tools required to enter the job market or further continue the study career. Students will be able to further explore the aspects relating to programming and control, corporate treasury and finance, organisational and employee management methodologies, and marketing techniques. This knowledge is required to start management programmes in any business and

organisation, or to start one's own business.

JOB OPPORTUNITIES

Business Administration and Management is for students willing to acquire the tools and skills that are necessary to understand and solve business management issues. Thanks to the several application experiences, graduates are skilled to work in Italian and international businesses of various sizes, auditing firms, consulting companies, banking groups and financial intermediaries, professional studies, public institutions, and no-profit organisations.

Graduates in Business Administration and Management also gain the mindset and tools to be entrepreneurs of their business and start entrepreneurial activities and start-up companies.

The knowledge acquired allows them to successfully attend Master's degree programmes of the Department or other Italian or foreign universities or vocational master programmes (1st level).

President of the Degree Programme

Prof. Alessandro Giovanni Grasso
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Tutoring delegate

Sonia Romanazzi
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www.economia.unimore.it/site/home/didattica/corsi-di-laurea/economia-aziendale-e-management.html

Degree / Society and Culture

Economics and Finance

Facility: Viale Berengario, 51
41121 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-33 Class of bachelor's degrees in economic sciences

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Public law (6)
Business administration (12)
Economics and business management (6)
Computer science (proficiency) (3)
Introduction to microeconomics (9)
English language (proficiency) (6)
General mathematics (12)
Economic history (6)

SECOND YEAR

Private and commercial law (12)
Economics of Financial Intermediaries and Finance (9)
Introduction to macroeconomics (9)
Macroeconomics (6)
Financial mathematics (6)
Microeconomics (6)
Public finance (6)
Statistics (9)

THIRD YEAR

Models for financial investments (6)
An exam to be chosen among the following:
- Applications of financial models (6)
- Introduction to econometrics (6)

Two exams to be chosen among the following:

- Economics and institutions of industrial districts (6)
- Economics and labour policies (6)
- International economics (6)
- Monetary economics (6)
- Welfare systems (6)

An exam to be chosen among the following:

- European Union Law (6)
- Securities Market Economics (6)
- History of economic thought (6)

Elective learning activities (12)

Internship (12)

Final examination (3)

PRESENTATION

The Degree Programme in Economics and Finance is aimed at training graduates to understand the modern business and financial systems, in terms of both production and distribution of income, generation of savings, financial choices of businesses and families, and the role played by the public sector. The ability to understand the multiple real, financial, institutional and social aspects of a modern economy is mainly essential in a period of important market evolutions and technological and socio-demographic transformations. The peculiarities are developed from a wide base shared with the Degree Programmes in business, ensuring sound accounting and budgetary knowledge, business management and commercial law.

PROGRAMME CONTENTS

The training project of the Degree Programme features the fundamentals of economic, business, law, mathematic, statistic, financial and historic subjects, that are integrated with basic skills in IT and language (English) areas. A core aspect of the Programme is to provide students with the tools for gaining the skills for applied analyses by processing information taken from the main economic and financial data banks. An internship and final examination close the training programme and represent a significant opportunity to apply the acquired skills. By exploring specific areas of interest, students will learn financial skills (financial instruments and markets, monetary policy, investment choices) and knowledge on economic themes (industrial, international, job market, welfare analysis).

JOB OPPORTUNITIES

The Degree Programme in Economics and Finance trains graduates who are able to keep a broad perspective on the activity of economic and institutional subjects, and highlight the main quantitative dimensions of the economic and financial system. The acquired skills allow graduates to take up the role of financial operator in financial (banks, insurance companies) and non-financial (industrial, commercial) enterprises, and as an applied economist in bodies of various kind (public enterprises and bodies, associations, trade unions).

The acquired knowledge will provide students with an adequate academic background and a solid background to successfully attend the higher-level Master's Degree Programmes in Economics, Business Economics, and Finance.

President of the Degree Programme

Professor. Massimo Baldini
059 2056873
massimo.baldini@unimore.it

Tutoring delegate

Ms. Maria Luisa Resta
059 2056936
info.economia@unimore.it

www.economia.unimore.it/site/home/didattica/corsi-di-laurea/economia-e-finanza.html

Degree / Society and Culture

International Economics and Marketing

Facility: Viale Berengario, 51
41121 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-18 Class of bachelor's degrees in economics and business management sciences

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Public law (6)
Business administration (9)
Economics and business management (6)
Computer science (proficiency) (3)
Introduction to microeconomics (9)
English language (proficiency) (6)
General and financial mathematics (12)
Business planning and budgeting (6)

SECOND YEAR

Private and commercial law with elements of international law (12)
Economics of financial intermediaries and finance in the international context (9)
Introduction to macroeconomics (9)
Marketing (9)
Public finance (6)
Statistics (9)

Second language - one exam chosen among the following:

- French language I (6)
- Spanish language I (6)
- German language I (6)

THIRD YEAR

Economics and institutions of industrial districts (6)
International economics (6)
English language 2 (9)
International marketing (9)
An exam to be chosen among the following:
- Management of exports (6)
- B2B and Digital marketing (6)
- HR organisation and management (6)
- European Union Law (6)
- Economic history (6)
- French language 2 (6)
- Spanish language 2 (6)
- German language 2 (6)
Elective learning activities (12)
Internship (12)
Final examination (3)

PRESENTATION

The degree programme in International Economics and Marketing provides students with the skills to understand and make business choices in an international complex context.

Managing relations with international customers, assessing the attractiveness of foreign markets, knowing how to choose and manage ways of entering different markets, including through digital marketing tools, having language skills to interact with foreign partners, are examples of the skills provided by the programme. In addition to an adequate skills profile, the programme aims to develop in students a capacity for judgement and autonomy through the use of exercises and case studies, seminars with managers, and internship experiences also abroad.

PROGRAMME CONTENTS

The training programme is divided into four areas of study.

The first area deals with principal business techniques and methods essential for company management. The second area concerns the foundations of international economics and provides tools for the analysis of industrial structures. The third area addresses the development of marketing skills (tools and techniques for international market evaluation, strategies for entering foreign markets, and management of international marketing policies). The fourth area, which is an innovative approach to Economics and International Marketing, focuses on solid language skills in English and in a second language, to be chosen from French, German, and Spanish.

JOB OPPORTUNITIES

At the end of the programme, students will have a solid knowledge of economics, languages, and marketing, which will enable them to work both in Italian companies, already engaged in foreign markets or starting their internationalisation, and in foreign and multinational companies. In these companies, a degree in International Economics and Marketing is useful in the fields of marketing, business, procurement, and assisting the general management. The acquired skills profile also puts them in a position to successfully access employment opportunities offered by business associations, business service centres, banks and other financial institutions that support the internationalisation of the economic system, and public and private international organisations.

The knowledge acquired provides a solid basis for access, with adequate academic background, to subsequent courses in the Master's degree classes in economics, business and finance.

President of the Degree Programme

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Tutoring delegate

Ms. Lara Liverani
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www.economia.unimore.it/site/home/didattica/corsi-di-laurea/economia-e-marketing-internazionale.html

Degree / Society and Culture

European Languages and Cultures

Facility: Largo Sant'Eufemia, 19
41121 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-12 Class of bachelor's degrees in language mediation

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

1st and 2nd Language (12)

General linguistics (9); Italian linguistics (9); Italian Literature or Comparative Literature (9); History of contemporary Europe (9)

SECOND YEAR

Language, culture and institutions of language countries 1 and 2 (12)

Option (12): Third languages, Anglo-American, French, English, Spanish-American, German literature

Sociology of communication (9)

ECONOMIC-LEGAL PATH:

Comparative European Law (9)

Fundamentals of economics (9)

LINGUISTIC-CULTURAL PATH:

Anglo-American, French, English, Spanish-American, German literature (12)

Option (6): History of cinema 1; Comparative history of the art of European countries in the French language; Language and gender

THIRD YEAR

Linguistics, translation and mediation for language 1 and 2 (12)

ECONOMIC-LEGAL PATH

Option (12): Third language biennialisation (12); Marketing and international marketing (6); Economics of European integration

(6); Comparative law - law and culture (6); English / French / Spanish / German translation laboratory (6); Theory and methods of dialogue and mediation (6)

LINGUISTIC-CULTURAL PATH:

Option (12): Third language biennialisation (12); French, English, Anglo-American, Spanish-American, German literature (12); English / French / Spanish / German translation laboratory (6); History of Cinema 2 (6)

Electives (12); Internships / structured activities (4); Final test (5)

PRESENTATION

The degree programme in European Languages and Cultures will give students a broad-based knowledge of at least two foreign languages, along with an improved knowledge of European cultures through a solid and interdisciplinary educational offer. The programme integrates the study of languages and European cultures with law and economics, socio-linguistic and literary skills. These are key to meeting the challenges that Emilia-based businesses and institutions face in an ever-changing international market. For this reason they need professionals with a broad knowledge of foreign languages and a sound cultural training, which will enable them to critically understand the contemporary world.

PROGRAMME CONTENTS

In addition to the standard subjects, at least two European languages are studied for three years: English is compulsory, and students can choose their second language among French, German, or Spanish. For two years a third language can be chosen among Arabic, Chinese, French, German, Russian, and Spanish. The programme is designed to develop language skills, comprising ability to read, write, analyse, interpret and translate general and specialised texts. From the second year it is possible to choose between two curricula: economic-legal (linguistic mediation for the economy and international commercial enterprise) and linguistic-cultural (linguistic mediation for the cultural industry, cultural tourism, event organisation). A modern teaching approach promotes access to internship experiences and includes several international exchange programmes for students and teachers. A double degree may

be issued with this degree, as the result of an agreement between our Department and the Département de Langues Etrangères Appliquées dell'Université Paris Ouest Nanterre.

JOB OPPORTUNITIES

Graduates can find employment locally and internationally. The thorough linguistic and cultural knowledge and skills developed through the programme prepare graduates for successful employment in Italy and Europe, not only in the field of multilingual communication - as translators, editors and language consultants -, but also in publishing, advertising and tourism. Additionally, the skills and sensitivity acquired will make graduates suitable to work as cultural mediators for multicultural and multilingual companies, institutions and organisations. Also, graduates gain the credits and skills required to enter specialised programmes for future language instructors and teachers. Among other degree programmes, graduates will be able to enrol to Master's Degrees in Languages for Communication in International Enterprises and Organisations, as well as Languages, Cultures, Communication, both provided by the Department.

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Degree / Society and Culture

Legal Sciences for Business and Public Administration

Facility: via San Geminiano, 3
41121 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-14 Class of bachelor's degrees in science of legal services

Required qualification:
Five-year high school diploma

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Institutions of roman law (6)
Constitutional law (9)
Political economy (6)
Private law institutions (9)
History of European law (6)
Sociology of law and elements of legal computer science (9)

SECOND YEAR

Administrative Law (9)
Labour law (9)
Law of international organisations (6)
Civil procedural law (9)
Criminal law (9)
Commercial law (9)
Business administration (6)
English language (6)

THIRD YEAR – CORPORATE LEGAL OPERATORS

Transport law (6)
Bank and financial intermediaries law (6)

Students must choose 18 credits from the teachings offered:
Industrial property and competition law (6)
Food Law (6)
Criminal procedural law of companies (6)
Tax law (6)
Business crisis and insolvency law (6)
Criminal law of legal persons and the economy (6)
Town planning and environmental law (6)

THIRD YEAR – LABOUR CONSULTANTS

Bank and financial intermediaries law (6)
Tax law (6)
Employment procedural law (6)
Trade union law and industrial relations (6)
Social security law (6)
Public labour law (6)

THIRD YEAR – JUSTICE, PUBLIC SECURITY AND ADMINISTRATION

Criminal procedural law (6)
Criminology (6)

Students must choose 18 credits from the teachings offered:

Regional law (6)
Local Government Law (6)
European immigration law (6)
Criminal procedural law of companies (6)
Law and religion (6)
Urban security law and policies (6)
Town planning and environmental law (6)

For all curricula:

2 Electives (12)
Additional training activities (21)
Final examination (9)

PRESENTATION

The degree programme in Law in Business and Public Administration is aimed at responding to the current demand both in the public and private sectors to combine a solid legal preparation with the ability to understand and apply existing regulations in specific and specialised areas. The Programme is provided in mixed mode, i.e. classroom lectures are integrated with remote learning provided via the Internet. All classes, both in face-to-face and remote mode, are video-recorded and made available to students on the dedicated Web platform, which allows students to interact with professors in different ways. Students will be offered a dedicated online tutoring service.

PROGRAMME CONTENTS

The Degree Programme is divided into two main training areas. The first two years are common to all students and focus on learning a basic knowledge of law and the fundamentals and mechanisms that are distinctive of the main law sectors, sided by the practice of the English language and legal information technology. The second part has the duration of one year

and offers three different study routes, each designed to provide an in-depth training of three areas of specialisation and aimed at creating different types of professionals: the business legal practitioner, the labour consultant and those involved in justice, public safety and administration.

JOB OPPORTUNITIES

At the end of the programme, students graduate with a set of legal knowledge that may be flexibly adapted to several instances; as legal experts, they may be employed both in private companies and public administrations, including Municipalities, Regions, Courts and Prosecutors' offices, INAIL, INPS, Local Health Authorities, Hospitals, Revenue Agency or Labour Inspectorates. In addition, further job opportunities are in the field of labour consulting, trade unions, professional associations, banking and insurance.

For those who intend to continue their studies, see section Continuing your studies.

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Degree / Society and Culture

Strategic Science

Facility: Facility: Military Academy of Modena

Administrative headquarters: University of Modena and Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L/DS Class of bachelor's degrees in defence and security sciences

Required qualification:

Five-year high school diploma

Access: Reserved to the Trainee Officers of the Italian Army

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR: COMMON PATH

Mathematics I (9)

Computer Science (6)

Chemistry (6)

Geometry Linear Algebra (9)

Elements of Physics (3)

Mathematics 2 (9)

Physics (9)

English language (3)

Internship (Job-oriented technical module) (6)

SECOND YEAR: COMMON PATH

Political economy (6)

Weapons (6)

Military art (6)

Public law (6)

General and social psychology (6)

Topography and Cartography (6)

Internship (Job-oriented technical module) (26)

THIRD YEAR - COMMON SUBJECTS:

Economic Political Geography (6)

Management Discipline Applied to Military Arts (6)

Internship (Job-oriented technical module) (28)

Final examination (3)

THIRD YEAR - POLITICAL AND ORGANISATIONAL CURRICULUM

Economics and business organisation (6)

Sociology of cultural processes (6)

History of armed conflicts (6)

THIRD YEAR - INFRASTRUCTURAL SYSTEMS CURRICULUM

Material Sciences (9)

Construction Sciences (9)

THIRD YEAR - COMMUNICATION CURRICULUM

Electronic Calculators (9)

Databases (9)

PRESENTATION

The Bachelor's Degree in Strategic Sciences provided by the University of Modena and Reggio Emilia is reserved to Trainees Officers of the Army. It meets the Army's need to have a training path for future officers of the various Arms, this path is established in agreement with and according to the provisions of the military authorities.

The degree programme offers a wide-ranging cultural and technical preparation; the general approach is based both on the methodological rigour of scientific subjects and on legal, economic and sociological issues. This enables the trainee officer/officer to acquire the knowledge and acquire the necessary skills to continue his studies in the Master's Degree, but also to provide the theoretical-practical training required to operate, with command, management and coordination tasks, in the specific sectors of the Armed Forces and security. In addition, students learn how to manage and direct organisational and functional systems, even not necessarily of military nature, and to protect the strategic interests of Italy and the European Union. For a more specific differentiation of the professional profiles, the course of study includes three different training programmes.

PROGRAMME CONTENTS

Beside the specific military and sport training, these studies offer both a technical/scientific education and a law, socio-political and economic education. The English language and physical and political geography are broadly taught because of the military requirement to belong to the NATO and other international organisations.

JOB OPPORTUNITIES

Graduates in Strategic Sciences attain the rank of First Officer in the Normal Role of the Armed Forces on permanent service and acquire the functional competences for the exercise of command and leadership skills connected with the organisation, preparation and management of personnel, specific means and materials, and activities connected with logistical procedures for the operation of military structures. They continue their training according to the requirements of the Armed Forces as a prerequisite for the activities they will carry out within the Ministry of Defence's own structures such as Organisations/Detachments/Departments/Commands or in missions abroad.

President of the Degree Programme

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Degree / Society and Culture

Contemporary History and Cultures

Facility: Largo Sant'Eufemia, 19
41121 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-42 Class of bachelor's degrees in history

Required qualification:

Five-year high school diploma

Access: Unlimited number of places, non-selective entry test.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Contemporary History (12)
Modern History (9)
Institutions di philosophy (12)
Cultural anthropology (9)
Sociology of Cultural Processes (9)
English language (9)
History of modern art (6)

SECOND YEAR

History of conflicts (9)
History of Christianity and Islam (12)
History of Italian Literature (6)
Moral philosophy (9)
Economics and History of the Contemporary World (6)
Cultural geography (6)
Sociology of gender relations (9) or: Gender Anthropology (9)

THIRD YEAR

History of migration (9)
History teaching (6) or: Digital Libraries and Archives (6)
Curriculum "Philosophical methods and forms of knowledge"
History of Ideas (9)

Two teachings to be chosen from:
Theoretical philosophy (6)
History of science (6)
General psychology (6)

'Cultural diversity and mediation' curriculum
Dialogue and mediation - theory and methods (9)

Two teachings to be chosen from:
Anthropology of Migration (6)
Sociology of Intercultural Relations (6)
Social anthropology and educational contexts (6)

Electives (12)
Other activities / internships (4)
Final examination (5)

For any updates, it is advisable to consult the website of the Degree Programme.

PRESENTATION

The degree programme provides theoretical, methodological and basic knowledge in history, philosophy, anthropology, sociology and also in other disciplines (literature, art, digital humanities, economics, geography). It also provides critical tools for getting to know today's contemporary world and fostering dialogue between different forms of culture and different cultures. What are the relations behind the different cultures and between the expressions of a same culture? How did the ideas, social forms and ways of life featuring the globalised world take shape and how have they changed over time? Answering these questions needs an interdisciplinary approach, in which history interacts with human sciences. The main training objective consists in acquiring a plurality of methods of investigation of contemporary cultures within a broad and up-to-date historical and humanistic framework. We want to enable students to acquire a plurality of knowledge and methods that will allow them to face even very different issues; so they will be able to seize opportunities and confront each other (cultures, values, ways of thinking). We want to encourage them to develop their potential and their critical approach in several directions.

PROGRAMME CONTENTS

The programme offers a solid common interdisciplinary basis in the first two years and two different optional specialisation paths in the third year: one historical-philosophical, the other more socio-anthropological. This setup allows for a deeper historical education and more conscious access to anthro-

pological, philosophical and sociological problems and phenomena. For critical actions on the present, knowing how today's world has developed is indeed essential.

JOB OPPORTUNITIES

Our graduates find work in cultural centres and institutions, libraries, archives, international, governmental and non-governmental organisations; publishing houses and newspaper editors; social and intercultural mediation services, digital humanities enterprises; cultural services and cultural tourism agencies. The most relevant aspect is the acquisition of skills that may be used in multiple fields. In fact, training in humanities fosters openness to the world.

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<https://www.dslc.unimore.it/site/home/didattica/corsi-di-laurea/articolo980020822.html>

Degree / Society and Culture

Data Analysis for Business and Finance

Facility: Reggio Emilia**Duration:** 3 years**Training Credits:** 180**Degree Class:** L-41 Class of bachelor's degrees in statistics**Required qualification:**

Five-year high school diploma

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

General mathematics (6)

Linear algebra (6)

Fundamentals of information technology (6)

Calculation of probability (6)

Descriptive statistics (9)

Database (9)

Data Governance Models and Strategies (12)

Business models and strategic decisions (6)

English language (3)

SECOND YEAR

Ethics and data in business decisions (6)

Cloud Computing (6)

Data Science Lab (6)

Inferential statistics (9)

Multidimensional Data Analysis (12)

Data Reduction, Information Design and

Data Visualisation (9)

Electives (12)

THIRD YEAR

Statistical Models - GLM (9)

Project Evaluation (6)

Text processing and social analytics (6)

Machine and deep learning (9)

Change Management Methodologies (6)

Internship (18)

Final examination (3)

PRESENTATION

In public and private organisations and companies, the need to anchor economic decisions and management models to structured databases which are at the same time functional to the definition of strategic objectives and a tool for monitoring project performance is now pervasive. It therefore becomes essential, in the current economic, social and institutional context, to train professionals that are capable of managing, increasing and enhancing the information assets of organisations and businesses.

PROGRAMME CONTENTS

The degree programme organises skills on four technological-scientific areas, for the analysis and management of data, always interpreted in application contexts related to strategic and managerial decisions of companies.

The teachings of the Data Engineering area provide basic theoretical and methodological knowledge for the collection, analysis and processing of data for the purpose of creating interpretative and predictive models to support strategic data-driven and financial decisions of companies.

The teachings of the Data Science area (Construction and analysis of databases) provide basic theoretical and methodological knowledge to collect, analyse and generate valuable information for business decisions.

The teachings of the Information Governance and Management area (Organisation of the information assets of companies) provide the theoretical and methodological knowledge to build the governance and management strategies of the business information assets.

The teachings of the Information Design area (Representation and

visualisation of data) provide the methodological knowledge and tools to be able to represent, disseminate and enhance the company's information assets effectively and to effectively support strategic and management decisions.

JOB OPPORTUNITIES

The degree programme aims to train a professional figure equipped with the skills to analyse and manage data in support of strategic decisions and aiming at filling both executive and coordinating roles in the field of business information systems. It therefore provides knowledge and skills in statistics and computer science for the analysis, management and modelling of data and identifies industrial and service organisations, both public and private, as the context in which to express the ability to apply the knowledge acquired.

President of the Degree Programme

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Digital Education

Facility: Reggio Emilia

Viale Allegri 9

Duration: 3 years

Training Credits: 180

Degree Class: L-19 Class of bachelor's degrees in science of education and training

Required qualification:

Five-year high school diploma

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

Common path

FIRST YEAR

History and theory of education (12)
General Psychology and Cognitive Bases of Learning (12)
English language (6)
Environments and Technologies for Education (9)
Developmental and Educational Psychology (6)
Society and Digital Educational Contexts (9)
Digital linguistics (6)

SECOND YEAR

Innovative Teaching Methodologies (9)
Research and assessment in digital training contexts (9)
Social psychology (9)

THIRD YEAR

Second language chosen by the student (3)
Electives (12)
Internship (12)
Final examination (6)

Curriculum: Instructional Designer in digital contexts

SECOND YEAR

Labour law in digital contexts (9)
Statistics (9)
New Media (6)
Instructional Design in digital contexts (6)

THIRD YEAR

Multimedia training content design (9)
Environments and Technologies for the production of multimedia contents for training (9)
Data analysis techniques and Learning Analytics (12)

Curriculum: Psycho-Social Educator In digital contexts

SECOND YEAR

Labour law in digital contexts (9)
Statistics (9)
Cognitive psychology in digital contexts (9)
Digital technologies and psychological development (5)

THIRD YEAR

Digital citizenship: teaching and training elements (9)
Psychopathology in digital contexts (5)
Social and psychological bases of digital communities (5)
Digital communities: teaching and training elements (9)

Curriculum: Digital Educator in Social/ Healthcare Contexts

SECOND YEAR

Labour law of training processes in social/health contexts (9)
Statistics for social/health contexts (9)
Training design in social and healthcare contexts (6)
Digital Education for healthcare professions (5)
Digital Education for well-being and personal care (5)

THIRD YEAR

Design of multimedia content for training in social/health contexts (6)
Digital Education for surgical disciplines (5)
Digital Education for clinical disciplines (5)
Digital Education for public healthcare (5)
Digital Education for laboratory disciplines (5)

PRESENTATION

The Degree Programme provides students with the theoretical knowledge and develops the practical skills needed to operate in digital educational and training contexts. The unifying trait is the particular attention paid both to the use of new technologies for learning - in a purely instrumental reference but, above all, in an adequate methodological, planning and teaching framework - in training contexts and the attention to education (and to re-education) to the so-called 'digital citizenship' and to support re-balancing interventions in the field of digital addiction. Attention is paid to training processes in the social/health fields.

From the 2020/21 academic year, the degree programme is hinged on the Department of Medicine and Surgery to ensure greater scientific and experimental solidity and a direct connection between educational processes and the well-being of individuals, groups and society as well as a characterisation of at least two addresses in the psycho-social-health field.

In addition, the crisis of the training and educational systems generated by the COVID-19 pandemic has highlighted the absolute need for professionalism and skills in the field of training, teaching and education mediated by technologies.

PROGRAMME CONTENTS

The training offer is based on a common programme, later divided into 3 job-oriented curricula that will share the methodological-disciplinary basis indicated in the common programme and that will differ in relation to the distinct features of the skill profile and employment opportunities that enhance the peculiarities of the professional figure leaving the university, based on the

contexts in which it operates.

At the end of the programme, a job-oriented internship is provided for in organisations, institutions and companies operating - for various reasons - in the different fields of training, education, and teaching.

JOB OPPORTUNITIES

This innovative Degree Programme trains students to properly operate in the educational and training digital contexts, with specific reference to the continuous training in the medical area. In addition, as it is a class L-19 degree programme, it allows students to obtain the Qualification of Social-Pedagogical Professional Educator.

The 3 curricula form the following professional figures:

- Instructional Designer in Digital Contexts,
- Psycho-social educator in digital contexts,
- Digital educator in social and health contexts.

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Degree / Society and Culture

Digital Marketing

Facility: Viale Antonio Allegri, 9
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Duration: 3 years

Training Credits: 180

Degree Class: L-18 Class of
bachelor's degrees in economics and
business management sciences

Required qualification:

Five-year high school diploma

Access: Limited number, details are
provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Digital Economy Law I (6)
Data Analytics for Digital Marketing I (6)
Business models and strategic innovation (6)
Digital Marketing Strategies (6)
Computer Science I (6)
Growth Economics (9)
English A2-B1 (language classes)
Analysis and profiling of digital buyers (6)
Digital Analytics (6)

SECOND YEAR

Digital Economy Law 2 (12) (module 1 +
module 2)
Data analysis for digital marketing 2 (12)
(module 1 + module 2)
Computer Science 2 (6)
English B1-B2 (3)
Brand and digital communication (9)
Digital Marketing and strategic planning (9)

Internship 2 (15)
Electives (12)

THIRD YEAR

Banking and digital finance (6)
English B2-C1 (3)
Direct Marketing (12) (module 1 + module 2)
Marketing Technologies for eCommerce (12)
(module 1 + module 2)

Internship 3 (15)

Final examination (3)

PRESENTATION

The degree programme aims to train professionals capable of producing innovative solutions in the digital economy and to become active interpreters of change. The training project introduces important innovations in teaching methodologies: it foresees, in fact, to combine basic teachings, applications, "teamwork" and internship during the second and third year of the programme. Basic courses focus on consolidating the knowledge; application courses are provided with the support of sector experts and allow for exploring the knowledge, sharing the trends and emerging tools of digital economy, and starting specific operating projects. Internships allow for verifying the acquired knowledge and skills in a real environment.

PROGRAMME CONTENTS

The Degree Programme in digital marketing is divided into four main learning areas: quantitative, legal, economic, and strategic-managerial. The teachings in the four areas are aimed at acquiring theoretical knowledge, operational tools and professional experience useful for an outgoing profile capable of managing marketing activities in a digital context. The skills provided in the first area relate to the collection and analysis of data, legal tools for web communication in the second area, profiling of competitive scenarios in the third one, and coordination of digital communication and distribution, with all web interaction tools available for businesses in the fourth one.

JOB OPPORTUNITIES

The degree programme aims to train young graduates to be employed in digital marketing specialist roles. They are figures capable of working towards objectives, in inter-functional teams and of contributing to strategic business decisions. Their skills allow them to occupy roles of project middle manager in different business areas, although the knowledge, skills and abilities acquired assign the marketing area the preferred destination for graduates in Digital Marketing. The main opportunities of professional growth are in both B2B and B2C manufacturing and service companies, still the competencies acquired in digital communication make these professional skills attractive also in local, national, and international institutions and bodies.

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Degree / Society and Culture

Marketing and Business Organisation

Facility: Viale Antonio Allegri, 9
42121 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L-18 Class of
bachelor's degrees in economics and
business management sciences

Required qualification:

Five-year high school diploma

Access: Limited number, details are
provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Private business law (6)
Business administration (9)
Business systems economics (6)
Computer Science (6)
Fundamentals of political economy I (9)
English language (6)
Mathematics (6)
Sociology of work and organisation (6)

SECOND YEAR

Administration and control (9)
Contract law and business relations (12)
Marketing fundamentals (9)
Introduction to statistics for economic and
social sciences (12)
Fundamentals of political economy 2 (9)
Business organisation (9)
Social psychology (6)
To be chosen by the student

THIRD YEAR

Distribution Marketing (9)
Psychology of cognitive processes (6)
Internship - Other activities (9)
Final examination (6)

Two compulsory teachings between:
Accounting and financial statements (9)
Business communication (9)
Organisational behaviour (9)

PRESENTATION

The Degree Programme in Marketing and Business Organisation responds to the growing need for professionalism capable of combining commercial and marketing skills with knowledge relating to the organisation of business, who know how to use new information technologies and manage internal and external communication. Big businesses, as well as small and medium ones, show an increasing interest in professionals with new management skills of the relationships with national and international markets. The innovation and update of the teaching contents are combined with educational methodologies specifically chosen and designed to encourage personal behaviours to interaction and communication. The programme has a limited number of places; please refer to the department website www.dce.unimore.it for more details on admission criteria and procedures.

PROGRAMME CONTENTS

The degree programme is divided into four main areas of study. The first one focuses on the tools for analysing and monitoring the relationships with customers and therefore on product strategies, price policies and sales network management. The second area focuses on the organisational models adopted for the coordination of business activities and relations between economic and institutional actors. The third area deals with the issues of business organisation and human resource management, with constant reference to new information and communication technologies and appropriate regulatory references. Finally, the fourth area explores issues relating to marketing strategies and policies and business communication, with particular reference to the activity

of modern large-scale distribution. The degree programme includes traditional lectures, seminar modules, group activities and internship activities, especially important for developing the ability to apply the knowledge acquired. Classroom teaching activities are enriched by the possibility of accessing the registration of lessons after their delivery, through the services of ON-ELab; the service also provides for the availability of an online receiving time to supplement the face-to-face one.

JOB OPPORTUNITIES

The degree programme provides the skills to start managerial career paths in the various business management areas and explores specific knowledge in marketing and business organisation functions. Career opportunities are intended for professionals who work in manufacturing and service companies, but the knowledge acquired can be appropriately directed to consultancy or management activities in public administrations. The theoretical and application training relating to the main methodologies for market analysis and monitoring allows graduates to take on operating roles in dedicated structures in charge of both design and data collection and processing functions.

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Degree / Society and Culture

Communication Sciences

Facility: Viale Antonio Allegri, 9
42121 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L-20 Class of
bachelor's degrees in communication
sciences

Required qualification:

Five-year high school diploma

Access: Limited number, details are
provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Introduction to linguistics (9)
Fundamentals of economics (6)
English language A (6)
General psychology (9)
Social psychology (9)
Semiotics (9)
General sociology (9)

SECOND YEAR

Data analysis for social research (9)
Linguistic analysis for communication (6)
Second foreign language - to be chosen
between French and German (3)
English language B (6)
Communication technology (9)
Electives (12)

#Curriculum: Media languages
Theories of narrative (6)
Sociology of communication (6)
Visual and media studies (9)

#Curriculum: Business communication
Business models (6)
Organisation and human resources (6)
Sociology of innovation (9)

THIRD YEAR

Information and communication law (6)
Multimedia communication laboratory (12)
History of the present time (9)

Curriculum: Media languages

Digital humanities (6)
Semiotics of cinema and media (9)

Curriculum: Business communication

Marketing and communication (9)
Psychology of decisions (6)

Internship - Other activities (9)
Final examination (6)

PRESENTATION

Communication and information play a leading role in public and private organisations. To integrate in such professional contexts, graduates are required to acquire a specialised knowledge of the mechanisms regulating the communication processes and the tools needed to govern them. The degree programme offers theoretical and practical studies that provide students with the ability to recognise the specific features of possible types of text (written, visual, audio-visual, multimedia) and to experiment the production of communication strategies mainly linked to the so-called "new media". The programme has a limited number of places; please refer to the department website www.dce.unimore.it for more details on admission criteria and procedures.

PROGRAMME CONTENTS

The study of psychology, sociology, information technology, linguistic and semiotic subjects allows students to gain the theoretical knowledge of communication processes. Importance is given to the development of communication abilities, with a special focus on language aspects. Students acquire skills relating to editorial activities and the production of texts for cultural and editorial environments. The basic theoretical preparation is sided by a practical training path, in which students shall apply the knowledge acquired to specific contexts such as cinema, television or web. Students who do not have a good knowledge of the Italian language are individually supported in a manner to be agreed with the professors. Classroom teaching activities are enriched by the possibility of accessing the registration of lessons after their delivery, through the services

of ONELab; the service also provides for the availability of an online receiving time to supplement the face-to-face one.

JOB OPPORTUNITIES

The degree programme offers the skills that are specific to those involved in communication and public relations, multimedia experts, as well as professionals of publishing companies and advertising and communication agencies. Graduates in Communication sciences have the knowledge and skills required to work in organisations and institutions in the field of external and internal communication. The professional profile also includes roles such as "communication entrepreneurs and managers" and professional figures connecting the various functions and/or different organisations, and the audience. This degree programme allows access without educational debits to the department's Master's Degrees in Advertising, Digital Communication and Corporate Creativity and in Management and Corporate Communication.

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www.dce.unimore.it/L/SCO

Degree / Society and Culture

Education for Early Childhood Services and Socio-pedagogical Contexts

Facility: Viale Timavo 93

42121 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L-19 Class of bachelor's degrees in science of education and training

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

General and social pedagogy (9)

History of education (9)

Intercultural Pedagogy (6)

General psychology with specific contents for early childhood (6)

Philosophical Aesthetics (8)

English language (6)

Contemporary History (6)

Computer Science (4)

Educational research methodology with specific content for early childhood (6)

"Educator in nurseries and childhood services" curriculum

SECOND YEAR

Reggio's educational approach in children's services (6)

Psychology of development and early childhood education + Psychology of handicap and rehabilitation with specific contents for early childhood (12)

Teaching and special pedagogy (9)

General Sociology (6)

Digital Media Theory and Teaching (6)

Family Relations Law (6)

Ethics and anthropology of relationships (6)

Sociology of education and early childhood (8)

Elective activities (12)

Guidance internship (2)

THIRD YEAR

History and legislation of early childhood education services (6)

Group processes and dynamics (6)

Early childhood and family pedagogy (6)

Design and evaluation of early childhood educational contexts + Methodology of play and creativity for early childhood (12)

Internship (12)

Final examination (5)

Socio-pedagogical educator curriculum

SECOND YEAR

Special and Inclusion Pedagogy (12)

Psychology of handicap and rehabilitation with specific contents for early childhood (6)

+ Social and group psychology (6)

Criminology (6)

General Sociology (6)

Philosophy of Human Rights (6)

Video History (6)

Sociology of education and early childhood (8)

Acquisitional linguistics and language teaching (6),

or, alternatively:

Digital Media Theory and Teaching (6)

Elective activities (12)

Guidance internship (2)

THIRD YEAR

Extra-curricular teaching (9)

People, families, and society (6)

Narrative Medicine (6)

History of Interreligious Relations (6)

Internship (12)

Final examination (5)

PRESENTATION

The degree programme trains the figure of the professional social and pedagogical educator and educator in crèches and educational services for children, pursuant to current legislation. The Degree Programme combines theory with practice, allowing students to get in contact with local bodies, associations, enterprises, social cooperatives, and educational voluntary organisations; it also get students know the main agencies and educational facilities existing on the territory, providing for training projects to be carried out in such bodies, with internships of approximately 400 hours. The programme is also available on a part-time basis.

PROGRAMME CONTENTS

The Degree Programme features a first common year for all specialisations, which provides a sound pedagogical and teaching knowledge in educational science and of general nature, to ensure that students achieve a sound set of skills targeted to the design and management of

educational situations (promotion, recovery, and prevention). From the second year, students may choose between two different programmes, which provide specific skills based on the corresponding professional figures: 1. Educator in nurseries and childhood services; 2. Social and pedagogical educator. Attendance at internships and laboratory activities related to some subjects is compulsory in both cases.

JOB OPPORTUNITIES

Based on the programme chosen, the Degree Programme allows students to access: - the profession of educator in nurseries and early childhood services (0-3 years of age); - the profession of socio-pedagogical educator, namely a figure operating in various educational contexts, including care facilities for children or people in distress, social cooperatives, centres for cultural integration, schools, school and after-school services for disabled people, services for the elderly, prisons and services for external criminal prosecution, international cooperation, street education, cultural and territorial services, youth centres, decentralised educational halls (museums, libraries), and/or in educational projects for adults. The Degree Programme in Education for Early Childhood Services and Socio-Pedagogical Context provides direct access to the Master's Degree Programme in Pedagogy with no educational debts.

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Degree / Society and Culture

Psychological Sciences and Techniques

Facility: Viale Antonio Allegri, 9
42121 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L-24 Class of bachelor's degrees in psychological sciences and techniques

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Introduction to psychology (9)
Social psychology (9)
Psychological Research Methodology (9)
Computer science and bibliographical research (6)
Psychology of development (12)
Neuroscience (10)
English language (5)

SECOND YEAR

Theories and techniques of clinical psychology (9)
Educational Psychology (6)
Dynamic Psychology (6)
Work and organisational psychology (9)
Cognitive Psychology (6)
Psychobiology (9)
Statistics (6)
Group Psychology (9)
Criminology (6)

THIRD YEAR

Developmental Psychopathology (6)
Data analysis tools and models in psychobiological research (6)
Psychology of emotions (6)
Electives (18):
Development Assessment Tools Lab (4)
Addiction Psychopathology Laboratory (4)
Psychopedagogy (6)
Identity Psychology (6)
Emotion regulation: typical and atypical development (4)
Neuropsychology laboratory (4)
History of psychology (4)
Strategies for the promotion of social inclusion (4)
Sport Psychology (4)

Internship (8)
Ethics laboratory (2)

Final examination (8)

PRESENTATION

The Degree Programme in Studies in Psychological Sciences and Techniques, born from the collaboration between the University of Modena and Reggio Emilia and the University of Parma, aims to provide the basic knowledge and skills of psychology and related areas that are useful for understanding the behaviour of individuals, groups and social organisations. To encourage the participation of the entire student population (students working, away from home and with disabilities) the programme teaching is provided through the blended mode. This mode provides for the combination of remote teaching activities provided on the Internet and traditional lectures in the classroom.

PROGRAMME CONTENTS

Traditional lectures will be provided in Reggio Emilia on the first semester, and in Parma on the second semester of each year. The training programme is divided into main study, research, and intervention fields envisaged in psychology; more specifically, they regard: general and experimental psychology, social and labour psychology, development and education psychology, clinic, dynamic, and health psychology. These are integrated with the learning of interdisciplinary knowledge, within the fields of neurosciences, statistics, criminology, sociology, and law. The basic theoretical training is combined with an overall 200-hour job-oriented pre-degree internship, carried out in a direct relationship with expert psychologists, in Universities or in the world of work.

JOB OPPORTUNITIES

Graduates in Psychological Sciences and Techniques, after enrolment in section B of the Professional Register of Psychologists, will be able to carry out the profession of Doctor of Psychological Techniques in the field of prevention, diagnosis and rehabilitation in public and private structures, educational institutions, organisations of the third sector, in the context of psychosocial activities, evaluation, human resource management, assistance, training, health promotion, in collaboration with a psychologist with a master's degree enrolled in Section A of the professional register.

Graduates in Psychological Sciences and Techniques will have the requirements needed to complete their psychological training by accessing one of Master's Degree Programmes of class LM-51 in any Italian university.

President of the Degree Programme

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Single-cycle master's degree / Society and culture

Law

Facility: via San Geminiano, 3
41121 Modena

Duration: 5 years

Training Credits: 300

Degree Class: LMG/01 - Class of
master's degrees in law

Required qualification:

Five-year high school diploma

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Roman law institutions (9)

Constitutional Law (12)

Political economy (9)

Private Law (12)

History of medieval and modern law (9)

Philosophy of Law (9)

SECOND YEAR

Commercial law(15): general part(9); special
part(6)

Employment Law(12)

Comparative legal systems(9)

Fundamentals of normative argumenta-
tion(6)

Law and religion (6)

Private law institutions 2 (9)

English language (6)

THIRD YEAR

European Union law (9)

Criminal Law(9)

Tax Law(9)

International Law (9)

Administrative Law 1 (9)

History of modern and contemporary law(6)

FOURTH YEAR

Advanced Criminal law (6)

Administrative Law 2 (9)

Civil procedural law(15): module 1: The
general principles and the process of cogni-
tion(9); module 2: Special proceedings and
enforcement(6)

Criminal procedural law(15): static part(6);
dynamic part(9)

During the fourth year, students must take
12 elective credits

FIFTH YEAR

Monographic Roman law(6)

Civil Law(9)

During the fifth year, students must take 30

elective credits:

Arbitration and Sport Law(6)

Comparative Human Rights Law(6)

Criminology(6)

Law and media education(6)

Aviation Law(6)

Agri-food law(6)

Canon Law(6)

National and international arbitration law(6)

Business crisis and insolvency law(6)

Social Security Law(6)

Law of food, physical activity, well-being
and nature(6)

Local Government Law(6)

Transportation Law(6)

Bank and financial intermediaries law(6)

Digital information and communication
law(6)

Industrial property and competition law(6)

International Organisations Law(6)

Law of transfer of family assets(6)

Public Labour law (6)

Law and artificial intelligence(6)

European immigration law(6)

European motor vehicle law(6)

Financial Law(6)

Private international and procedural law(6)

Criminal law of legal persons and the
economy(6)

Employment Criminal Law(6)

Criminal procedural law of companies(6)

Employment procedural law(6)

Public Law(6)

Regional Law(6)

Trade union law and industrial relations(6)

Town planning and environmental law(6)

Economics and law of public contracts(6)

European company Law(6)

European and International Criminal Law(6)

European and International Tax Law(6)

Information technology and privacy law(6)

Forensic Medicine(6)

European criminal procedure(6)

Human rights theory and practice(6)

Theory and technique of the constitutional
process(6)

Additional training activities – 3 credits

Final examination - 21 credits

PRESENTATION

Through the study of legal phenom-
ena from multiple perspectives, the
Master's Degree Programme in Law
offers a comprehensive, specific,
and in-depth knowledge of the Ital-
ian and international legal system
and aims to provide graduates with
the technical and cultural tools that

are typical of the lawyer's profes-
sion. The programme trains stu-
dents to classical legal professions
(magistrate, lawyer, notary) and oth-
er different professions that require
a legal training. Within the current
economic and social context, the
Master's Degree Programme in Law
aims to meet the widespread need
for professionals who are able to
analyse, understand, and interpret
legal data from both a national and
transnational perspective. To this
purpose, the Master's Degree Pro-
gramme in Law has consolidated
its internationalisation process by
enhancing the English language
teaching and integrating the tradi-
tional training offer with seminars
dealing with international scope
topics.

PROGRAMME CONTENTS

The Master's Degree Programme in
Law may be divided into five main
training areas. The first is based
on methodologies, techniques and
tools for understanding and analys-
ing private and commercial law dis-
ciplines. The second area of study
focuses on the analysis of public law
disciplines (constitutional, admin-
istrative, and criminal) and labour
law. The third area aims to provide
the historical, philosophical and so-
ciological, and comparative knowl-
edge that will set the historical and
theoretical grounds of legal studies.
The fourth area teaches the inter-
national order and EU law, whereas
the fifth one deals with procedural
law (civil, criminal, administrative,
labour). The teaching model imple-
mented tends to promote the inte-
gration of the skills acquired and a
strong interaction between profes-
sors and students. Traditional lec-
tures held by professors - both in
Italian and English - are integrated
with other seminar activities with
university professors and Italian
and foreign experts, the analysis

and discussion in the classroom of case studies, the opportunity to carry out internships and traineeships in institutions, public offices, companies, and law firms.

JOB OPPORTUNITIES

At the end of the training programme, graduates boast a significant core of legal skills that may be flexibly adapted to several professional needs. Master Graduates in Law may choose the career of lawyers, notaries, and magistrates in the first place. They will also be able to take on high-responsibility roles in public administrations, private companies of the territory, large multinational companies, trade unions, comparative, international and EU law sector, as well as international organisations.

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Single-cycle master's degree / Society and culture

Primary Teacher Education

Facility: Viale Timavo 93
42121 Reggio Emilia

Duration: 5 years

Training Credits: 300

Degree Class: LM-85 bis Class of master's degrees in primary teacher education

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

English Workshop 1 (3)
Italian Linguistics 1 (6)
Mathematics 1 (6)
General and social pedagogy (10)
Psychology 1 (8)
Sociology of education (8)
School History (8)
Modern History (8)

SECOND YEAR

General teaching (8)
Physical education (9)
English Workshop 2 (2)
Children's literature (9)
Mathematics 2 (6)
Educational Research Methodology (6)
Intercultural Pedagogy (7)
Contemporary History (8)
Internship 2 (3)

THIRD YEAR

Biology (13)
Chemistry + Physics (13)
Mathematics Education (10)
Teaching and special pedagogy (10)
Geography (9)
English Workshop 3 (2)
Internship 3 (5)

FOURTH YEAR

Didactics of reading and comprehension (7)
Docimology (7)
English Workshop 4 (2)
Italian Literature (13)
Italian Linguistics 2 (7)
Pedagogy and teaching of music (9)
Languages of art and digital media (9)
Internship 4 (7)

FIFTH YEAR

Hygiene (4)
English Workshop 5 (1)
Teaching technology lab (3)
Teamwork methodology

+ Educational Technologies (9)
English language final examination (2)
Final examination (9)
Psychology 2 (9)
Developmental Psychopathology (8)
Internship 5 (9)

PRESENTATION

The Master's Degree Programme in Primary teacher education is the only programme that prepares qualified teachers both for preschools and primary schools. It is characterised by innovative teaching, which includes classroom lectures, school placements and laboratory exercises, and is supported by a constantly updated digital platform. In laboratories, groups of students are led by professors and professionals: they learn to apply theoretical principles and methodologies and simulate activities and procedures that are distinctive of the daily practice of teaching.

During the internship, students are involved in educational-teaching and research projects in collaboration with school institutions.

The degree programme is firmly rooted in the local area, valorises the best innovative experiences in the school and also accounts for the Reggio Emilia model of preschools that is known throughout the world. Graduates' employment rate is positive: one year after obtaining the degree, 86% of graduates find a job as preschool or primary school teacher (temporary or permanent) (Source: Alma Laurea 2021).

PROGRAMME CONTENTS

The curriculum of the Master's Degree Programme in Primary teacher education aims to train graduates who are professionally qualified, in terms of knowledge, skills, and competencies useful for teaching in preschools and primary schools (see training plan annexed). The

training programme is organised in 29 teachings with 20 teaching workshops strictly related with them, 1 workshops of teaching technologies, 5 workshops for the English language and 8 training credits to be chosen freely.

There are also 600 hours of internships in pre-school and primary schools. Attendance to workshops and internships is compulsory.

JOB OPPORTUNITIES

The training programme prepares a qualified graduate for teaching in both pre-school and primary schools.

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www.des.unimore.it/site/home/didattica/scienze-della-formazione-primaria.html

Dietistics

Facility: via Giuseppe Campi, 287
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L/SNT3 Class of bachelor's degrees in health professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Physics, Statistics, Computer science (5)
Biology, Histology and Biochemistry (8)
Anatomy and Physiology (8)
Microbiology and Hygiene (7)
Scientific English (3)
Food science (7)
Job-Oriented Internship (17)
Job-Oriented laboratory (1)
Optional and other activities (4)

SECOND YEAR

Human and Psycho-Pedagogical Sciences (6)
Physiopathology (6)
Human Nutrition and Collective Catering (5)
Applied dietary sciences (10)
Prevention Sciences and First Aid (6)
Job-Oriented Internship (20)
Job-Oriented laboratory (2)
Optional and other activities (5)

THIRD YEAR

Medical-Internal Sciences (6)
Medical-Clinical Sciences 1 (5)
Pediatric, Obstetric-Gynaecological Sciences (5)
Medical-Clinical Sciences 2 (8)
Healthcare management (4)
Job-Oriented Internship (23)
Thesis and final exam (6)
Other Activities (3)

PRESENTATION

The three-year degree programme in Dietetics trains the health professional Dietitian, who promotes personal health and well-being through proper diet and nutrition, both in healthy individuals and the community and in sick individuals. The training provides skills related to dietetics and nutrition in the preventive and clinical, catering and research fields. The integration of knowledge and practical experience allows the optimal training of the Dietician, who can practice the profession both in the healthcare field and in other fields.

PROGRAMME CONTENTS

The study of bio-medical disciplines allows the understanding of the physiological and pathological processes concerning nutrition and dietetics. Knowledge of psycho-pedagogical fundamentals makes one competent in nutrition education and in building the therapeutic alliance. The medical-clinical, deontological, legislative teachings and the internship allow students to acquire specific skills in clinical nutrition and diet therapy. Professional training with vocational tutors and trainee guides is compulsory during the three years of the programme.

The final graduation examination confers the title of Doctor of Dietetics and qualifies the holder to practise as a dietician, while allowing registration in the relevant TS-RM-PSTRP order.

JOB OPPORTUNITIES

The dietician is the health professional competent in all activities aimed at the correct application of nutrition and diet therapy, in health and illness. In the clinical field, he/she elaborates and formulates the customised diets prescribed to

patients by the doctor, monitoring their implementation and effectiveness, collaborates in the treatment of eating disorders, elaborates the composition of food rations and menus to meet the nutritional needs of population groups, deals with collective catering services (canteens, residential facilities), carries out educational activities to promote healthy lifestyles, and conducts research. Dieticians carry out their profession independently and in a responsible manner, working as self-employed professionals or employees, in healthcare (clinics, hospitals) and non-healthcare facilities (local authorities, catering companies, food industries, schools, sports centres), both public and private.

The Bachelor's Degree in Dietetics allows access to the Master's Degree in Science of Technical Assistance Health Professions (Class LM/SNT-3) and in Human Nutrition Science (Class LM-61), and to post-graduate courses and vocational Master programmes (1st level).

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University Degree / Health

Dental Hygiene

Facility: via del Pozzo, 71
41124 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L/SNT3 Class of bachelor's degrees in health professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Etiopathogenesis of diseases (11)
Physics, statistics and Information Technology (8)
Scientific English (3)
Basic biomedical sciences (7)
Dental Hygiene Sciences (17)
Human Morphological Sciences and physiology (7)
Psycho-Pedagogical Sciences (6)
Internship 1st year (7)
Other 1st year (2)
Electives 1st year (2)

Second Year

Other 2nd year (3)
Electives 2nd year (2)
Paediatric Dentistry (5)
Reconstructive Dentistry (6)
Principles of General Medicine (6)
Principles of Oral cavity pathology (5)
Clinical Sciences (3)
Dental Hygiene Sciences 2 (6)
Internship 2nd year (21)

THIRD YEAR

Surgical and Rehabilitation Dentistry (6)
Final examination (6)
Dental Hygiene Sciences (35)
Dental Hygiene Sciences (44)
Medical Legal and Management Sciences (5)
Internship 3rd year (32)
Other 3rd year (3)
Electives 3rd year (2)

PRESENTATION

An healthy mouth is strictly dependent on a proper oral hygiene. Management of dental plaque allows for the prevention or avoids the worsening of pathologies suffered by periodontal tissues. The Degree Programme trains healthcare operators to provide for the oral hygiene by preventing or immediately intercepting the onset of pathologies of hard and soft tissues of the mouth.

PROGRAMME CONTENTS

The training activity includes traditional lectures, practical exercises, and internship activities. At the end of the study programme, graduates will know the frameworks of the prevalent systemic diseases of the adult and the child, will distinguish the etiopathogenesis, diagnosis, prophylaxis and prevention of dental diseases in the patient in paediatric age, in the adult and in the elderly; they will be able to manage the different types of dental patients from the point of view of hygiene, and will know the infectious risk in the dental field and the strategies to control it.

JOB OPPORTUNITIES

The dental hygienist is a health professional who integrates into the dental team by promoting oral health with the aim of improving the well-being of the entire body as well, including the aesthetics of the smile. S/he contributes to the clinical diagnosis of dental diseases by detecting clinical indices and intercepting risk indices. S/he programmes the maintenance of dental hygiene, both at the dental clinic and at home for different types of dental patients. In addition to professional hygienic therapy, s/he performs non-surgical periodontal therapy, fissure and pit

sealing, topical application of remineralising substances, vital teeth whitening.

S/he makes use of every strategy or technology available to carry out its clinical practice, including the adjustment of eating habits if harmful to oral health.

The profession can be carried out either working as a self-employed professional or an employee in private, public and university or local research establishments. The profession is currently enjoying a boom and the market is in full demand.

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Nursing - Modena

Facility: via G. Campi, 287
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L/SNT1 Class of bachelor's degrees in health professions, nursing and midwifery health professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Cellular and molecular foundations of life (4)
Morphological and functional foundations of life (7)
Fundamentals of Nursing Science (5)
Pathophysiological basis of diseases (6)
Health and safety promotion (6)
Help relationship in care processes (5)
Scientific English (1 of 2) (2)
Nursing traineeship 1st year (15)
Nursing in a multicultural society (1)

SECOND YEAR

Nursing in the medical area (10)
Nursing in chronicity and disability (9)
Scientific English (2 of 2) (2)
Oncology Nursing (4)
Surgical Nursing (7)
Evidence-Based Nursing (5)
Nursing Internship 2nd year (22)
Electives (1 di 2) (2)
Nursing in chronic skin ulcers (1)

THIRD YEAR

Nursing in the mother-child area (6)
Critical Care Nursing (6)
Legal and deontological principles of professional practice (4)
Nursing in haemodynamics, cardiac surgery and surgery (1)
Clinical risk and patient safety (1)
Family and Community Nursing (9)
Healthcare organisation and care processes (4)
Nursing Internship 3rd year (26)
Electives (2 of 2) (4)
Nursing in pathologies of the sense organs (1)
Final examination (5)

PRESENTATION

The Degree Programme in Nursing allows graduates to become health care professionals responsible for nursing care and to exercise a socially useful profession, through the acquisition of a solid training in clinical-welfare, relational, and educational disciplines. Job opportunities range from personal care to health education and prevention, from teaching to research.

PROGRAMME CONTENTS

The training of the nurse professional is characterised by theoretical and clinical-assistance learning (traineeship). The main discipline of the Degree Programme is Nursing, which studies how to meet the needs of the healthy person and with health problems. The teaching activity is carried out through both traditional (plenary lectures) and innovative (interactive activities in small groups) methods. The internship is carried out in public and private structures of the provincial territory, with the supervision of tutors and internship guides. Before the internship, students attend educational workshops, where mannequins and medical devices are used to simulate the nursing procedures learned in theory. Under the Erasmus programme, students can take 12 weeks of internship at universities in countries such as Finland, France, Germany, Latvia, Lithuania, Portugal, Spain, Sweden, Switzerland and Turkey.

JOB OPPORTUNITIES

At the end of the training programme, students obtain the degree in Nursing, thus becoming the health professionals responsible for general nursing care, with educational functions in the field of disease prevention and functions of

care for sick and disabled people of all ages. To practice the profession of Nurse, students must obtain the university degree and register in the professional order. This profession can be carried out in health facilities, public or private, and/ or in the territorial and home care, as employees or freelance professionals. The Degree Programme in Nursing provides direct access to the Master's Degree Programme in Nursing and Midwifery Sciences with no credit obligations. Bachelor graduates may also access Vocational Master Programmes (1st level).

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www.infermierimo.unimore.it

Midwifery

Facility: Via del Pozzo, 71
41124 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L/SNT1 Class of bachelor's degrees in health professions, nursing and midwifery health professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Basic Disciplines 1 (4)
Morphological and functional basis of life (5)
Obstetric and Gynaecological Sciences 1 (8)
Basic Disciplines 2 (6)
Human and Psychopedagogical Sciences (4)
Obstetrics and Gynaecological Sciences 2 (5)
English language (2)
Laboratory (3)
Internship 1st Year (22)

SECOND YEAR

Prevention Sciences (5)
Neonatal and Paediatric Sciences (4)
Childbirth physiology and puerperium (7)
First Aid Sciences (4)
Promotion sciences and Health Maintenance (5)
Physiopathology of Pregnancy (7)
Internship 2nd Year (22)

THIRD YEAR

Gynaecological and Oncological Pathology (5)
Obstetric Pathology (6)
Interdisciplinary Science (4)
Health Organisation and Professional Psychology (5)
Obstetric Emergencies and Complications (7)
Internship 3rd Year (21)
Final examination (7)
Other Activities (6)
Electives (6)

PRESENTATION

The professional figure of the Obstetrician plays an important role in health care because it follows the woman at every stage of her life, from birth to senility. Among the many midwifery competences are pregnancy, childbirth and puerperium, in which the midwife assists and advises (in complete autonomy in the case of physiology and in a multi-professional team in the case of pathology) the woman in one of the most special and delicate periods of her life. The Degree Programme in Midwifery offers students a comprehensive training in both theory (scientific knowledge specific to the professional profile) and practice (technical skills necessary for carrying out the profession).

PROGRAMME CONTENTS

The degree programme is organised on a six-monthly basis for theoretical training activities (lectures, tutorials), and on an annual basis for practical clinical-assistance activities (practical training). The internship experience requires 100 per cent attendance, which is indispensable for acquiring the skills required for the specific job profile. Clinical experience enables the student to deal with unique care situations that cannot be reproduced by theoretical approaches and/or classroom simulations alone. The internship takes place in different locations under the supervision and guidance of professional tutors and trained internship guides, gradually increasing in complexity over time.

JOB OPPORTUNITIES

At the end of the three-year programme, the obstetrician is able to carry out with his/her own responsibility, independently and/or in collaboration with other professionals,

intellectual and technical/scientific interventions in the healthcare, relational, educational, management, training and research field aimed at prevention, diagnosis, care, protection and recovery of health in the obstetrics, neonatal, gynaecological and gynaecological oncology fields, with particular focus on women, couples, new-born children, children, family and community.

The Obstetrician may work in public or private healthcare facilities, hospitals or local facilities, as employees or on a freelance basis. After obtaining the Bachelor's degree, graduates may access the Master's Degree in Nursing and Midwifery Sciences, Short Professional Programmes, and Vocational Master Programmes (1st level) in the specific field.

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University Degree / Health

Cardiocirculatory and Cardiovascular Perfusion Techniques

Facility: Via del Pozzo, 71
41124 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L/SNT3 Class of bachelor's degrees in health professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Physics, Statistics, Computer science (8)
Biological Science (4)
Anatomy, Histology (5)
Language skills (3)
General psychology
Labour Psychology (4)
Physiology, General Pathology,
Pathological Anatomy (7)
Prevention and health services
sciences (6)
Internship test (18)
Seminar activities
and laboratory (radiation protection) (3)

SECOND YEAR

Diseases of the
cardiovascular system 1 (6)
Clinical pathology, pharmacology (7)
Biomedical technologies applied to cardiology 1
and 2 (6 + 8)
Cardio-angiological sciences 1 (6)
Medical and surgical sciences (7)
Internship test (19)
Seminar activities
and laboratory (BLSD) (3)

THIRD YEAR

Cardiovascular Diseases 2 and Imaging
Diagnostics (6)
Cardiac surgery, Thoracic Surgery (8)
Cardio-angiological sciences 2 (4)
Paediatric cardiac surgery (4)
Forensic medicine (2)
Internship test (27)
Seminar activities and laboratory (Bibliographic research) (3)
Final examination (6)

PRESENTATION

Today, cardiovascular diseases are the main cause of death and morbidity in Western countries. The Degree Programme aims to train healthcare professionals who are able to apply prevention, diagnostic, and therapeutic techniques to the Cardiothoracic-Vascular field.

The Cardiocirculatory and Cardiovascular Perfusion Technician (CCPT) exercises his/her profession transversally on the population of all ages suffering from cardiothoracic-vascular diseases acquired or congenital in the acute and chronic phases of the disease. The CCPT carries out his/her professional activity in public or private healthcare facilities, as an employee or free-lance professional.

PROGRAMME CONTENTS

Training activities are divided in semesters: the first semester of the first year focuses on basic training activities, whereas distinctive activities are developed from the second semester and for the next two years. The training activity includes traditional lectures, practical exercises, and compulsory job-oriented internship.

The internship is aimed at the acquisition of professional skills and is carried out in national and international cardiology and cardiac surgeries in partnership with our department. The teaching model implemented tends to promote the integration of the skills acquired and a strong interaction between professors and students.

JOB OPPORTUNITIES

CCPTs are healthcare professionals with their own specialisations, providing for operating and maintaining the equipment relating to the fol-

lowing techniques: extracorporeal circulation, haemodynamic, electrophysiology, and ultrasound. Their tasks are pretty technical, assisting the medical staff by providing essential instructions or operating equipment aimed at haemodynamic diagnostics or replacing cardiovascular functions. They plan, manage and evaluate what is necessary for the proper functioning of the equipment they are responsible for, ensuring the correct application of the support techniques.

The Degree Programme in CCPT provides direct access to the Master's Degree Programme in Sciences of Healthcare Professions, healthcare techniques, with no educational debits. Bachelor graduates may access Vocational Master Programmes (1st level).

President of the Degree Programme

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Biomedical Laboratory Techniques

Facility: via del Pozzo, 71
41124 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L/SNT3 Class of bachelor's degrees in health professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Preparatory science 1 (6)
Preparatory science 2 (5)
Chemistry and biochemistry (5)
English language (3)
Biology, genetics and physiology (6)
Human anatomy and histology (7)
Microbiology and virology (5)
Biomedical internship I (12)
Additional training activities (3)
Electives (2)

SECOND YEAR

General and clinical pathology (7)
Immunology, immunohaematology, general and endocrine pathophysiology (9)
Veterinary clinical microbiology and parasitology (7)
Pathological anatomy and histology (6)
Pharmacology, forensic medicine e medical genetics (8)
Biomedical internship 2 (21)
Additional training activities (4)
Electives (2)

THIRD YEAR

Laboratory diagnostics (8)
Diagnostic techniques of pathological anatomy (7)
Prevention and health services sciences (9)
Biomedical internship 3 (27)
Additional training activities (3)
Electives (2)
Final Degree Examination (6)

PRESENTATION

The Bachelor's degree in Biomedical Laboratory Techniques trains highly qualified professionals with specific skills that can be used in the world of work immediately after

graduating.

The main sector is technical health-care within human and veterinary diagnostics and environmental prevention, in which graduates carry out in full professional independence the technical procedures needed for the execution of diagnostic methods on materials and biological samples.

PROGRAMME CONTENTS

During this three-year programme, students will be trained to practice their future profession through an intense programme of lectures and practical laboratory work, carried out under the supervision and guidance of professional tutors, in conformity with European standards. Attendance to lectures and internships is compulsory. The programme provides a solid preparation in both standard scientific and specialised disciplines, so that the graduates gain a thorough understanding of pathological processes and have the skills to provide effective diagnostic support. Students are also required to learn the English language, which is necessary for them to keep up-to-date and possibly participate in the Erasmus project.

Practical activities are performed in various laboratories of the University of Modena and Reggio Emilia, the University Hospital (Policlinico) of Modena and the Hospital of Baggiovara, the Local Health Authority of Reggio Emilia-Arcispedale S.M.N., and the experimental zooprophyllactic institute of Lombardy and Emilia Romagna.

JOB OPPORTUNITIES

Graduates will carry out laboratory, analysis, and research activities as employees or self-employed practitioners in: chemical-clinical analysis laboratories, Pharmacotoxicology, Endocrinology, Immunohaematology and

Transfusion, Microbiology and Virology, Pathological anatomy, Forensic medicine, Veterinary medicine etc. in

public and private facilities; university research laboratories; zooprophyllactic institutions; companies operating in the biomedical, food, and pharmaceutical field; regional agencies in charge of environmental quality control; private laboratories dealing with research and diagnostics.

The degree course in Biomedical Laboratory Techniques provides access to one-year Master programmes, for example, the Master programme in 'Coordination of Health Professions', which is a compulsory qualification for a career as a technical coordinator, is held at this university. The Degree Programme also provides access to the Master's Degree Programme in Science of Technical and Diagnostic Healthcare Professions. The Master's Degree lasts two years and is a single pathway to which all professionals in the technical-diagnostic area have access and is compulsory for access to the role of Healthcare Manager at the Directorates of Health Authorities and to hold the position of Director of Professional Training Activities at the same university.

In addition, graduates can enter master's degree programmes in Biology and Biotechnology.

President of the Degree Programme

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University Degree / Health

Imaging and Radiotherapy Techniques

Facility: via del Pozzo, 71
41124 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L/SNT3 Class of bachelor's degrees in health professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Biomedical Science 1 (8)
Physics Applied to Radiological Sciences (6)
Radiodiagnostic Technical Sciences (6)
Biomedical Science 2 (6)
Conventional Radiology (6)
Projections and Radiological Anatomy (4)
Internship 1 (10)
Scientific English (3)
Additional training activities 1st year (3)

SECOND YEAR

Computer Tomography and Equipment (6)
Nuclear Medicine (6)
Medical and surgical sciences (7)
Clinical Sciences (4)
Specialist Radiology (6)
Basic Radiobiology and Radiotherapy (6)

Internship 2 (20)
Additional training activities 2nd year (3)

THIRD YEAR

Magnetic Resonance (10)
Special Techniques in Radiotherapy and Nuclear Medicine (5)
Healthcare Management Sciences (6)
Prevention and health services sciences (4)
Internship 3 (30)
Additional training activities 3rd year (3)
Final examination (6)

Electives 1st year (2)

Electives 3rd year (4)

PRESENTATION

The Bachelor's degree in Imaging and Radiotherapy Techniques (TRMIR) qualifies professionals to handle and exploit different types of energy (X-rays and gamma rays, magnetic fields, ultrasound, etc.) for diagnostic or therapeutic purposes. The study programme, which is continually updated as technologies progress, is rich in subjects that are also very different, forming a potentially multifaceted professional figure capable of working both independently and in close collaboration in teams with figures such as Medical Physicists, Radiology Specialists, Nuclear Physicians and Radiotherapists.

PROGRAMME CONTENTS

Teaching activities are organised in face-to-face lectures and professional internships at the Operating Units and Services of the Hospitals in the province of Modena and Reggio Emilia.

During the programme, students learn the fundamental principles of physics, biochemistry, anatomy, physiology, general and clinical pathology, hygiene and first aid, which are the basic assets for a health professional.

Of particular relevance are the theoretical and practical teachings aimed at learning the diagnostic and therapeutic use of ionising radiation, radioactive tracers, thermal, ultrasonic and magnetic resonance energies, as well as IT applications in the radiology area with specific references to the processing and storage of images, reports and data of clinical-health interest and to the evolution of Artificial Intelligence applied to Imaging Diagnostics.

JOB OPPORTUNITIES

Graduates in Imaging and Radiotherapy Techniques are health professionals of the technical-diagnostic area who perform with professional independence, on medical prescription, the procedures necessary for carrying out diagnostic or therapeutic methods on biological materials or on the individual. They can carry out their professional activity in public or private healthcare facilities, as employees or freelance professionals, in the sectors of radiodiagnostics, radiotherapy, nuclear medicine, and medical physics. They manage and use complex equipment, whose function is to generate images of the human body for diagnostic and/or therapeutic purposes. The relationships with patients and the other healthcare professionals with whom they work in team are of key importance.

This Degree directly qualifies graduates to the profession and allow them to access the Master's Degree Programme in Sciences of Diagnostic Technical Healthcare Professions or vocational master programmes (first-level) with no credit obligations.

President of the Degree Programme

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University Degree / Health

Health Care

Interuniversity with the University of Parma

Facility: Via Amendola, 2 - Pav. De Sanctis,
42122 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L/SNT4 Class of bachelor's degrees in preventive health professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Fundamentals of biological sciences (6)
Fundamentals of anatomy and physiology (6)
Fundamentals of biomedical Sciences (6)
Human sciences and educational psychology (7)
Principles of prevention and health promotion (6)
Health promotion and prevention of chronic degenerative diseases (8)
Scientific English (4)
Job-oriented laboratory 1st year (1)
Job-oriented internship 1 year (10)

SECOND YEAR

Health Care Research Methodology (6)
First aid (5)
Nutrition and Food Sciences (6)
Prevention and health promotion of children and adolescents (7)
Prevention and health promotion of frail and elderly people (7)
Job-oriented laboratory 2nd year (1)
Job-oriented internship 2nd year (22)
Electives - 2nd year (4)
Other training activities - 2nd year (2)

THIRD YEAR

Prevention and protection of health in living environments (4)
Health prevention and protection in the workplace (6)
Legal sciences, deontology and protection of rights (4)
Health Management and Communication Sciences (6)
Job-oriented laboratory (1)
Job-oriented internship 3rd year (28)
Electives 3rd year (2)
Other training activities 3rd year (2)
Final examination (7)

PRESENTATION

The Degree Programme in Health Care Assistance, born out of the collaboration between the University of Modena and Reggio Emilia and the University of Parma, prepares and qualifies graduates for the profession of Health Care Assistant, the professional in charge of disease prevention and health promotion and education in all phases of a person's life. The activity is addressed to individuals, the family, the school and the community and is carried out by identifying people's health needs, health determinants and risk factors, and the priorities for preventive, educational and remedial intervention, to be activated in the various contexts also with the use of specific techniques and tools.

PROGRAMME CONTENTS

During the training students acquire knowledge of a clinical-etiological nature, of public health, preventive medicine and health education, in the psycho-pedagogical and communicative fields useful for developing the skills, including behavioural skills, to implement effective preventive and educational interventions for the resolution of health problems. The training programme is made of theoretical teaching activities (lectures, seminars, work in small groups), and professionalising activities organised in workshops and internships to be carried out in various healthcare facilities in the area, under the supervision of tutors, in order to acquire full mastery of all the necessary professional skills and their immediate employability in the working environment.

JOB OPPORTUNITIES

At the end of the training programme, students obtain the title of health care assistant, thus becoming the health care professional responsible for the protection and promotion of the health of individuals of all ages and conditions. At the end of their training, health care assistants can work in various services of public or private health and social care facilities, employed or as freelance professionals.

The Bachelor's Degree Programme in Health Care gives access to a Master's Degree in the Health Care Professions of Prevention or to Advanced Master Programmes (1st level).

President of the Degree Programme

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Physiotherapy

Facility: viale Umberto I, 50 - Pav. Spallanzani
42122 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L/SNT2 Class of bachelor's degrees in rehabilitation health professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Anatomy (6)
Research methodology (5)
Psycho-pedagogical sciences (8)
Physiology (7)
General methodology of rehabilitation and kinesiology (9)
Internship 1st year (16)
Scientific English (4)
Teaching laboratory (2)
Other/Seminars (1)
ADE 1 (2)

SECOND YEAR

Basics of pathology and pharmacology (6)
Diseases of the locomotive apparatus (8)
Specialist medicine and physiotherapy (8)
Neuroscience (6)
Physiotherapy in neuropsychiatry (7)
Rehabilitation and physiotherapy in neurology (8)
Internship 2nd year (16)
Other/Seminars (1)

THIRD YEAR

Healthcare Management (5)
Rehabilitation methodology in the developmental age (5)
Methodologies and techniques of special motor rehabilitation (5)
Specialist physiotherapy (5)
Internship 3rd year (28)
ADE 3 (4)
Laboratory - 3rd year (1)
Final examination (7)

PRESENTATION

The increase in chronic diseases related to the ageing of the population, the increase in life chances both in people who have suffered trauma and in children born prematurely, as well as the high prevalence of musculoskeletal diseases, sports traumas, neurological, cardiorespiratory and oncological diseases are some of the health needs that can be treated with physiotherapy.

PROGRAMME CONTENTS

The study programme includes basic and job-oriented teachings, integrated with the clinical training since the first year, to acquire the skills necessary to identify the physical, psychological and social needs of people of different ages, designing appropriate therapeutic interventions based on the best available scientific evidence. The training programme provides students with skills applicable to the clinical field based on the ethical, deontological and disciplinary principles of the profession, establishing helpful relationships with the patient and his/her family, promoting actions of functional recovery, overcoming disability and breaking down barriers, in support of integration and social participation.

JOB OPPORTUNITIES

Physiotherapists carry out prevention, treatment and rehabilitation interventions in the areas of motor abilities, upper and visceral cortical functions for pathologies with various etiology, congenital or acquired, in all age groups. Referring to the diagnosis and prescriptions of the doctor, within the scope of their skills, they develop, even in multidisciplinary teams, the rehabilitation programme aimed at identi-

fying and overcoming the need for health of the disabled person; they practice functional rehabilitation therapies for motor, psychomotor and cognitive disabilities using physical, manual and occupational therapies, propose the adoption of orthotic prostheses and aids, train them for use, verify their effectiveness by checking the appropriateness of the rehabilitation technique adopted with the objectives of functional recovery.

The Physiotherapist carries out his/her professional activity in public or private healthcare facilities, as an employee or freelance professional. The Degree Programme in Physiotherapy provides direct access to the Master's Degree Programme in Sciences of Healthcare Professions with no credit obligations.

President of the Degree Programme

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Nursing - Reggio Emilia

Facility: Via Amendola, 2 - Pav. De Sanctis 42122 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L/SNT1 Class of bachelor's degrees in health professions, nursing and midwifery health professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Molecular basis of life (4)

Morphological and functional bases of life (8)

Fundamentals of Nursing (5)

General Clinical Nursing (4)

Contribution disciplines (5)

Health and safety promotion (8)

Pathology and pharmacology in diagnostic and therapeutic processes (9)

Job-oriented training activities (Laboratory and internship) (11)

Electives (2)

SECOND YEAR

Medical Nursing (9)

Help report and Oncology (5)

Surgical Nursing (8)

Specialist medical area (4)

Nursing in chronicity (6)

Job-oriented training activities (Laboratory and internship) (26)

Electives (2)

THIRD YEAR

Critical life nursing (4)

Community and mental health nursing (7)

Evidence-based nursing (3)

Maternal Nursing - Infant (4)

Care organisation (7)

Job-oriented training activities (Laboratory and internship) (30)

Electives (2)

Final examination (7)

PRESENTATION

The Degree Programme is aimed at training professionals who independently carry out activities addressed to the prevention, care and protection of individual and collective health.

The nurse is responsible for the care of people at all stages of life, the way people react to illness and the outcomes produced by the care provided.

Nurses are the closest professionals to the needs of individual people and the population. Exercising this profession requires personal aptitude, motivation and rigorous human and scientific training.

PROGRAMME CONTENTS

The training programme has a three-year duration. The teaching methods include theoretical plenary lectures and tutorial teaching to small groups, both in nursing laboratories and internships. Data activities in the preclinical laboratory (prior to the placement) allow students to experiment, through simulations, the skills that they will need to perform on the real patient during clinical practice. Students carry out the internship alongside and under the supervision of a nurse tutor, an experienced professional working in hospitals throughout the Reggio Emilia region. The degree programme also offers teaching activities in the form of seminars and long internships (3 months) at foreign university locations and short internships (2 weeks) within European projects.

JOB OPPORTUNITIES

Graduate nurses, after registration in the professional register, can find employment in Italy and in all the countries of the European Economic Community, and can practise the

profession as an employee in hospitals, public and private healthcare residences or as a freelance professional as an individual and/or associate. Nurses can work in any nursing context, independently and/or in integration with other health professionals,

actively participate in the improvement of nursing care within work, project or research groups and further develop their education through postgraduate studies.

President of the Degree Programme

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Speech and Language Therapy

Facility: Via Amendola, 2 - Pav. De Sanctis,
42122 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L/SNT2 Class of bachelor's degrees in rehabilitation health professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Anatomy (6)
Psychopedagogical Sciences (7)
Research Methodology (7)
Physiology (7)
General Methodology of Speech Therapy Rehabilitation (7)
Scientific English (4)
Other teachings 1st year (2)
Teaching laboratory 1 (2)
Ade 1 (2)
Internship (16)

SECOND YEAR

Basics of Pathology and Pharmacology (5)
Specialised Medicines A (3)
Specialised Medicines B (8)
Speech therapy rehabilitation methodologies I (6)
Neuroscience (7)
Psychological and Linguistic Sciences (4)
Speech therapy rehabilitation methodologies 2 (6)
Internship 2 (18)
Ade 2 (2)
Other teachings 2nd year (1)

THIRD YEAR

Speech therapy rehabilitation methodologies 3 (9)
Speech therapy rehabilitation methodologies 4 (5)
Specialised Medicines C (3)
Healthcare Management (6)
Internship 3 (26)
Ade 3 (2)
Other teachings 3rd year (1)
Teaching laboratory 2 (1)
Final Examination (7)

PRESENTATION

The prevention, education and rehabilitation of language and communication alterations play an increasingly important and important role today, not only in developing age but also in adulthood and geriatrics.

PROGRAMME CONTENTS

The training activity includes traditional lectures, practical exercises, and compulsory internship activities. The study programme focuses on the student to enable the development and acquisition of the professional skills of the speech therapist in reference to three areas: clinical area (prevention, taking charge, assessment, treatment, and counselling), organisational area (autonomy and teamwork), professional area (development of profession and discipline). The internship, which is a fundamental part of the training, aims to provide the professional skills of the speech therapist related to the evaluation, planning, implementation and monitoring of the speech therapy. The internship activity is carried out in public and/or private healthcare facilities in partnership with the University.

JOB OPPORTUNITIES

The speech therapist carries out his/her activity by preventing and rehabilitating language and communication issues in developmental, adult and geriatric age. His/her activity is aimed at the education and re-education of voice disorders, speech, oral and written language, communication and swallowing disabilities. The professional activity may be carried out in hospitals and territorial structures of the National Health System, in structures and private and/or affiliated clinics, in residen-

tial structures for the elderly, in private studios. The speech therapist may carry out research activities in scientific research institutions, projects for local authorities and management and administrative activities in healthcare institutions.

The Degree Programme in Speech and Language Therapy provides direct access to the Master's Degree Programme in Rehabilitation Sciences of Healthcare Professions with no credit obligations.

President of the Degree Programme

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Psychiatric Rehabilitation Technique

Facility: Campus San Lazzaro
Via Amendola, 2 - Pav. De Sanctis
42122 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L/SNT2 Class of bachelor's degrees in rehabilitation health professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Electives 1st year (2)
Other Activities 1st year (3)
Anatomy (6)
Job-oriented activity 1st year (15)
Physiology (7)
Scientific English (4)
Research Methodology (8)
Psychiatry and
Psychiatric Rehabilitation 1 (8)
Psychopedagogical Sciences (7)

SECOND YEAR

Electives 2nd year (2)
Other Activities 2nd year (1)
Job-oriented activity (22)
Basics of Pathology and Pharmacology (5)
Developmental Medicine and Rehabilitation (4)
Neuroscience (6)
Clinic Psychiatry 1st year (8)
Psychiatry and Psychiatric Rehabilitation 2 (6)
Psychotherapy (6)

THIRD YEAR

Electives 3rd year (2)
Other Activities 3rd year (5)
Job-oriented activity 3 (23)
Healthcare management (6)
Final Examination (5)
Clinic Psychiatry 2nd year (8)
Psychiatry and Psychiatric Rehabilitation 3rd year (7)
Psychological Science (4)

PRESENTATION

On 13 May 1978, Italy enacted Law 180 (the so called "Basaglia Law") which redefined the place of treatment for patients suffering from psychiatric disorders. "Psychiatric Hospital" (asylums) ceased to exist and new community-based mental health services became the centre of psychiatric care, in the frame of local Departments of Mental Health. Psychiatric rehabilitation is based on the ethical values of contributing to develop autonomy and recovery; it fosters the empowerment of individuals who can reacquire and develop new capabilities when impaired by mental illness. The figure of the Psychiatric Rehabilitation Technician therefore represents a fundamental and innovative element of the therapeutic team, participating fully in accordance with recent developments in mental health that emphasise individualised recovery projects starting from the person's values and goals.

PROGRAMME CONTENTS

The training process is organised in traditional lectures and practical internship that is aimed at the acquisition of professional skills (evaluation, planning, implementation and monitoring of rehabilitating activities, with a focus on recovery). The professional training activity takes place in Local Health Centres (Reggio Emilia, Modena, Parma, Piacenza), public personal assistance institutions ("REGGIO EMILIA - Città delle persone" and "Comuni Modenesi Area Nord"), private hospitals accredited with the National Health System ("Maria Luigia", "Villa Igea" and "Villa Rosa") and social private establishments (Centro Italiano di Solidarietà of Modena and Reggio Emilia, Social cooperative "Nefesh", social solidarity cooperative "L'Ovile", Social cooperative

"Aliante", Community centre "Papa Giovanni XXII"), and clinics ("L'Impronta").

JOB OPPORTUNITIES

Graduates in Psychiatric Rehabilitation help assess psychic disabilities, resources, and potentials; they analyse needs and evolutionary causes, and detect the family and socio-environmental resources of patients.

Psychiatric Rehabilitation Technicians help identify the therapeutic training and psychiatric rehabilitation goals, as well as preparing the specific intervention programme aimed at helping the recovery of patients. They also co-operate in the assessment of retraining and rehabilitation programs for individual patients, assist in the training of support personnel, and are responsible for their continuous professional development.

The Bachelor's degree enables students to access the following Masters Degree Programmes: Rehabilitation Sciences of Healthcare Professions; Cognitive Sciences and Decision Making Processes.

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Occupational Therapy

Facility: Via Amendola, 2 - Pav. De Sanctis 42122 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L/SNT2 Class of bachelor's degrees in rehabilitation health professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Anatomy (6)
Psychopedagogical Sciences (7)
Research methodology (5)
Physiology (7)
English (4)
Teaching laboratory 1st year (2)
Internship 1st year (16)
ADE 1 (3)
Other teachings: CAD 3D (1)
General methodology of rehabilitation and kinesiology (9)

SECOND YEAR

Pathologies of the locomotive apparatus (8)
Basics of Pathology and Pharmacology (5)
Specialist Medicine and Occupational Therapy (5)
Developmental Medicine and Rehabilitation (5)
Internship 2 annual (20)
Neuroscience (7)
Rehabilitation Methodologies in OT (5)
Rehabilitation and OT in Child Neuropsychiatry (3)
ADE 2 (1)
OTHER TEACHINGS: Audiology (1)

THIRD YEAR

Healthcare Management (6)
Rehabilitation and occupational methodologies in occupational medicine (4)
Methodologies and techniques of special occupational therapy (7)
Human sciences applied to OT (7)
Teaching laboratory 3rd year: EBP (1)
Other: seminars (2)
Ade 3: electives (2)
Internship 3rd year (24)
Final examination (7)

PRESENTATION

Occupational Therapy promotes health and well-being through occupation (actions that we carry out in daily activity, both work and leisure) with the aim of making people as independent as possible when a disease or other morbid events make this difficult or impossible. Occupational therapists achieve this result by working together with other rehabilitation professionals, using specific techniques tailored to the patient's needs, identifying suitable aids and promoting environmental changes.

PROGRAMME CONTENTS

The programme includes various types of teaching activities: lectures, teaching laboratories, and internships. Internships are carried out in facilities of the National Healthcare Service, or in partnership with it, under the supervision and guidance of professional tutors. The programme deals with the basic disciplines that are essential to understand the physio-pathological processes that can lead to disabilities and on which the occupational specific therapeutic/preventive intervention is focused; and issues related to general rehabilitation and occupational methodology, based on the best scientific evidence. Top importance is given to cultural, ethical, and professional values.

JOB OPPORTUNITIES

Graduates in Occupational Therapy work in the field of prevention, care and rehabilitation of patients suffering from physical and mental illnesses and disorders, both with temporary and permanent disabilities, by using expressive, manual, recreational and daily life activities. In relation to the diagnosis and prescriptions of the doctor, in team

with other socio-health figures, they perform the functional and psychological evaluation of the subject, identify the needs of the disabled and define the rehabilitation program aimed at its recovery of the independence in the environment of daily life and in the social fabric. They may also carry out study, research, and teaching activities. The skills gained allow them to integrate directly in the working context and find employment in the public and private sector or working as freelance professionals.

The Degree Programme in Occupational Therapy provides direct access to the Master's Degree Programme in Rehabilitation Sciences of Healthcare Professions and vocational master programmes (1st level) with no credit obligations.

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Single-cycle Master's Degree / Health Medicine and Surgery

Facility: via del Pozzo, 71
41124 Modena

Duration: 6 years

Training Credits: 360

Degree Class: LM-41 Class of master's degrees in medicine and surgery

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Physics and Computer science (6)
Histology and Embryology (7)
Chemistry and Biochemical Propaedeutics (7)
English language (9)
Human Anatomy 1 (10)
Biological Chemistry (9)

SECOND YEAR

Biology e Genetics (11)
Human anatomy 2 (9)
Human Physiology and Physiopathology (19)
Basic scientific medical methodology (5)

THIRD YEAR

Microbiology and Virology (8)
Clinical methodology (8)
General Pathology and Immunology (16)
Epidemiology and Medical Statistics (7)
Systemic Pathology 1 (12)

FOURTH YEAR

Public Hygiene and Health (7)
Systemic Pathology 2 (10)
Imaging diagnostics (8)
Systemic Pathology 3 (12)
Systemic Pathology 4 (10)
Psychology and Neurophysiology (8)

FIFTH YEAR

Psychiatrics (8)
Nervous System Diseases (10)
Pathological Anatomy (12)
Pharmacology (12)
Paediatrics (8)

SIXTH YEAR

Surgical Medical Emergencies (6)
Legal and Occupational Medicine (9)
Medical Oncology (5)
Otorhinolaryngological, Odontostomatological and Visual Apparatus Diseases (9)
Diseases of the

locomotor system (5)
Gynaecology and Obstetrics (6)
General Surgery (9)
Internal Medicine and Geriatrics (17)
General Medicine and Primary Care (14)
Electives (8)
Elective Internship (6)
Final test (18)

PRESENTATION

The Degree Programme in Medicine and Surgery features compulsory attendance and offers students a theoretical-practical training in all fields of medicine. Graduates acquire both disciplinary and cross-cutting knowledge and skills in order to: address and solve health problems from a preventive, diagnostic, prognostic, therapeutic and rehabilitative perspective; adopt an integrated and ethical approach, as well as an effective and empathic communication with the individual, to understand it in its organic and psychological, social and cultural reality; actively collaborate at interdisciplinary and interprofessional level; assess clinical problems by applying the principles of scientific methodology and be able to constantly update their knowledge by making informed use of scientific literature.

PROGRAMME CONTENTS

The Degree Programme lasts six years. During the first two years, basic sciences are mainly dealt with. From the third year, all the clinical disciplines, medical and surgical subjects, the disciplines of public health, legal medicine and occupational medicine are studied. The fundamentals of the main laboratory and diagnostic methods for imaging and the principles of applications to the medicine of biomedical technologies are also studied. Parallel to the lectures, students carry out job-oriented training activities, in university or partnered healthcare

facilities. The internship will also be carried out on the territory, in the clinics of general medical practitioners and the territorial structures of the regional healthcare service. The aspects of the relationship with the patient are valued, also from a psychological point of view and based on communication with family members. The ability to collaborate with different professionals in group health activities, the ability to recognise the health problems of the community and to intervene in a competent way are also part of the skills obtained.

JOB OPPORTUNITIES

Graduates of the Master's Degree Programme in Medicine and Surgery attend qualifying internships during the course of their studies and obtain their licence to practise at the same time as graduating. After the necessary registration with the Order of Physicians, they will then be able to work as medical surgeons, will be able to take the admission tests for the various clinical speciality schools and for the specific training school for general practitioners, and will then be able to work in the various clinical, health and biomedical professional roles and areas.

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Single-cycle Master's Degree / Health

Dentistry and Dental Prosthodontics

Facility: via del Pozzo, 71
41124 Modena

Duration: 6 years

Training Credits: 360

Degree Class: LM-46 Class of master's degrees in dentistry and dental prosthodontics

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Behavioural Sciences (3)
Chemistry and biochemical propaedeutics (7)
Physics, Statistics and Computer science (12)
English language (8)
Ade 1-2 (3+2)
Histology (8)
Biochemistry (8)
Human Anatomy (9)

SECOND YEAR

Cellular and Molecular Biology (10)
Physiology (9)
Principles of Dentistry 1 (6)
Principles of Dentistry 2 (9)
Ade 3 (1)
General pathology (9)
Microbiology and Hygiene (14)

THIRD YEAR

Dental Materials and Prosthetic Technologies (14)
Medical Sciences 1 (15)
Pharmacology (7)
Imaging diagnostics (5)
Pathological Anatomy (8)
Special Odontostomatological Pathology (10)
Ade IV-V(1+1)

FOURTH YEAR

Anaesthesiological, Surgical and Emergency Sciences (14)
Restorative Dentistry (16)
Oral surgery 1 (4)
Gnathology (4)
Medical Sciences 2 (4)
Legal and Occupational Medicine (6)
Orthodontics and Gnathology (9)
Dental Prosthetics 1 (7)

FIFTH YEAR

Periodontology (12)
Dental Prosthetics 2 (9)

Orthodontics 2 (6)
Oral Surgery (12)
Cervico-Facial Pathology and Surgery(6)
Paediatric Dentistry (8)
Implant prosthesis (11)

SIXTH YEAR

Dental Disciplines A(8)
Dental Disciplines B (9)
Integrated Dental Therapy TPV (31)
Bioethics and Psychology (3)
Final Examination (10)

PRESENTATION

The Master's Degree Programme in Dentistry and Dental Prosthodontics aims to provide the scientific basis and the theoretical-practical preparation necessary for the practice of the dental profession, as well as the methodology and the culture necessary for the practice of continuing training. In addition to allowing the acquisition of the fundamental skills to critically detect and evaluate, from a clinical point of view and in a unitary view of self-assessment, data on the state of health and disease of the stomatognathic apparatus of the individual, the programme also aims to develop the ability to communicate clearly and humanely with the patient and with his/her family members, and to organise human resources.

PROGRAMME CONTENTS

The Degree Programme lasts six years. The first two years of the programme cover basic learning activities introducing the students to the foundations of the structural organisation and vital functions of the human body. It includes teachings that address issues related to the doctor-patient relationship and the understanding of the basic principles of scientific methodology. During the first two years, students learn the methods of handling patients with oral and dental problems. The following three years include the study of medical, surgical and specialist subjects, particularly referring to clinical problems linked to dental pathologies. Theoretical courses

and clinical internships covering the topics of oral pathology, restorative dentistry, oral surgery, periodontology, orthodontia, paediatric dentistry and prostheses, pursue the common objective of developing skills and experience to tackle and solve the problems of oral health in terms of prevention, diagnostics, prognostics, treatment and rehabilitation. The sixth year covers exclusively teaching activities that are job-oriented and intended to teach how to treat patients suffering from odonto-stomatological issues.

JOB OPPORTUNITIES

Dentists work in the prevention, diagnosis and care of oral and dental diseases. They correct the alterations of development and the irregular position of teeth. In particular, they study the pathologies and congenital and acquired anomalies of the teeth and mouth and their relationship with the general state of health. They inform patients on prevention, establish the required care and implement the relative treatments.

Dentists' activities consist first and foremost in the analysis of the state of health of the system and the patients' case history. According to this, they diagnose pathologies and define the required care. Dental care and rehabilitation involve a range of interventions, from the most common and simple, managing tooth decay, to more complex activities including dental prostheses.

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Chemistry

Facility: via Giuseppe Campi, 103
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-27 Class of bachelor's degrees in sciences and chemical technologies

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

General and inorganic chemistry (15)
Organic chemistry I (9)
Organic chemistry Laboratory I (6)
Physics I (9)
Mathematics I (9)
Computer Science (6)
Introduction to the Chemistry Laboratory (3)
English (3)

SECOND YEAR

Analytical chemistry I (15)
Physical Chemistry I (15)
Inorganic chemistry I (9)
Inorganic chemistry 2 (9)
Mathematics 2 (6)
Physics 2 (6)

THIRD YEAR

Analytical chemistry 2 (9)
Physical Chemistry 2 (9)
Environmental Chemistry I (6)
Internship and Final examination (12)

4 Elective teachings (24):
Instrumental methods in analytical chemistry (6)
Analytical Methodologies for Quality Control (6)
Industrial and Environmental Inorganic Chemistry (in English) (6)
Applied materials structural engineering (6)
Electrochemistry (6)
Chemical-physical methods for material characterisation (6)
Applied Organic Chemistry (6)
Development of Bioactive Molecules (in English) (6)

N.B. The study plan may be subject to changes. Any updates will be available on the website www.dscg.unimore.it or on the portal www.universitaly.it.

PRESENTATION

Chemistry studies matter, its properties, and its transformations. It involves and regulates every aspect of our lives, our environment and our world, it makes it possible to understand the processes and phenomena that occur inside and around us.

The development of chemical knowledge has a great technological impact and contributes decisively to economic and social development, making possible the discovery of new substances and the development of innovative materials. This allows chemistry graduates to pursue rewarding jobs in industry, services and the environment.

PROGRAMME CONTENTS

The training programme includes traditional lectures integrated with extensive laboratory work, and is divided into two curricula (Applied and Methodological), which differ only in the optional teachings to be chosen in the third year. The first two years of the programme are common and, in addition to chemistry, also include mathematics, physics and computer science, which are necessary for a complete chemical education. Students can further customise their preparation through activities for the final examination, to be carried out in a university laboratory or externally. Both curricula allow the continuation of studies in the Master's degree in Chemical Sciences at Unimore.

JOB OPPORTUNITIES

Graduates in Chemistry have an adequate knowledge of the theoretical and experimental aspects of basic chemistry and of the scientific method, they are able to apply the main techniques of chemical inves-

tigation to the solution of standard problems, and they can work independently and in teams.

Graduates in Chemistry find employment in industry and in research, control and analysis laboratories, performing mainly technical tasks. They can carry out freelance activities by passing the qualifying examination and registering in the Register of Chemists, Section B.

The Degree Programme in Chemistry provides direct access to the Master's Degree Programme in Chemistry Sciences with no educational debits (LM-54).

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Physics

Facility: via Giuseppe Campi, 213/a
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Duration: 3 years

Training Credits: 180

Degree Class: L-30 Class of bachelor's degrees in sciences and physical technologies

Required qualification:
Five-year high school diploma

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Mathematical Analysis 1 (9)

Geometry (6)

General Physics 1 A (9)

Physics Lab 1 (9)

Mathematical Analysis 2 (6)

General Physics 2 (9)

General Physics 1 B (9)

English language (3)

SECOND YEAR

Physics Lab 2 (9)

Complements of Mathematical Analysis (6)

General Physics 3 (9)

Analytical Mechanics (6)

Mathematical Methods for Physics (9)

Chemistry (6)

Numerical calculation (6)

Quantum Mechanics (9)

THIRD YEAR

Physics Laboratory 3 (9)

Atomic and Molecular Physics (9)

Physics of Matter (9)

Physics programming elements (6)

Internship (6)

Final examination (6)

Optional teachings

Spectroscopy (6)

Computational Physics Lab (6)

Electronics & Data Acquisition (6)

Nuclear physics and detectors (6)

Advanced Modern Physics Topics (6)

Electives

Generally speaking, all the teachings of the scientific degree programmes can be chosen (12).

PRESENTATION

Physics is the science that studies the properties of matter and fundamental interactions between its elementary constituents. On the other hand, the results of fundamental research in physics have always helped direct the future of technology. From the design of transistors to current information technology, from energy production to laser and LED technologies, from applications for medical diagnostics to nanotechnologies, physicists have always played a major role in technological innovation. The spread of technology into every area of society requires graduates able to address and solve increasingly new issues. If you have an enquiring mind, if you keep asking to yourself why things happen, if you are a problem-solver, then Physics is your field of study! Physics will never give you all the answers, but will teach you how to put the right questions, find the root of problems and face scientific and technological issues with a rigorous and original approach.

PROGRAMME CONTENTS

During the first two years, classical mechanics and thermodynamics, electromagnetism, the basics of quantum mechanics are studied, mathematical and computer skills are honed, with a focus on the use of computers for scientific applications and experimental skills. On the third year, students define a personalized study plan by choosing some topics in the fields of Condensed Matter Physics, Nuclear Physics, Computational and Applied Physics. The three-year course ends with an internship either within a university research group or in external companies, industry sectors and national or international research institutions.

JOB OPPORTUNITIES

The study of physics helps develop a logical and mathematical mind, the ability to model and solve complex issues, computer and laboratory skills. More than half of the Physics graduates work in high-tech industries, mainly in research laboratories and in R&D sectors of high-tech enterprises, quality certification and environmental measures laboratories, data processing centres. On the other hand, national statistics clearly show that most of the three-year graduates in Physics continue their studies: the degree in Physics (L-30) provides direct access to the Master's Degree in Physics (LM-17), while for other master's degrees, graduates need to verify the requirements of specific calls for applications.

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Bachelor's Degree / Science

Computer Science

Facility: Via Giuseppe Campi, 213/b
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-31 Class of
bachelor's degrees in sciences and
information technologies

Required qualification:

Five-year high school diploma

Access: Limited number, details are
provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

English language (3)
Programming 1 (9)
Mathematical Analysis (9)
Linear algebra (9)
Programming 2 (9)
Algorithms and Data Structures (9)
Computer Architecture (9)

SECOND YEAR

Physics (6)
Object-oriented programming (9)
Operating Systems (9)
Statistics and elements of probability (6)
Learning and evolution in artificial systems (6)
Databases (9)
Numerical calculation (9)
Integer Linear Optimisation (6)

THIRD YEAR

Network protocols and architectures (9)
Compilers (12)
Electives (12)

Two optional teachings (12) chosen from the
following:

Software Project (6)
Information Management (6)
Web Technologies (6)
Programming Fundamentals (6)

Internship (12)

Final examination (6)

PRESENTATION

Computer science is a pervasive discipline in our society, it exists in companies operating in various sectors (manufacturing, logistics, healthcare, tourism, etc.) and in everyday life when we use technological devices such as smartphones or tablets, or applications that have become essential, including the Web, for instance. The recent pandemic has demonstrated that these new technologies are critical to carry out activities within a context in which traditional methods may no longer be implemented. For instance, schools and universities have been able to continue providing classes during the lockdown period thanks to the new e-conference platforms. In addition, new technologies and applications are continuously being designed and developed; that is why IT graduates are, and for ever will be, among the most needed professionals in the labour market. The Degree Programme in Computer Science of Modena is a young programme that aims to train graduates to acquire high skills for the design and development of IT tools.

PROGRAMME CONTENTS

Over 70% of the teachings belong to Computer Science/calculation disciplines. Basic training is ensured by 4 teachings in Mathematics and 1 in Physics. The activities that can be freely chosen (12 CFUs) allow for a strong customisation of the training path. Internships can be carried out within the university or with local private companies or bodies. English courses and a final test complete the activity offer. The more specialised Computer Science teachings provide a solid grounding in different areas of computer science (algorithms, computer architectures, operating systems, networks, data bases)

with still a clear emphasis on software design and development. Students will study several programming languages featuring different paradigms and application fields (C, C++, Java, Python, ...) by mainly using methodologies (workshops, practical exercises, individual and group projects) aimed to develop real applications.

JOB OPPORTUNITIES

Computer Science graduates will find immediate employment as software designer and implementer (primarily) and as network and systems managers. Both professions can be performed within software houses, public administration offices, or in non-ICT firms requiring personnel to manage their information systems. The skills attained, mainly on open source tools, as well as the practical experience in developing projects implemented within the teachings allow graduates to work as self-employed computer experts or consultants.

The Bachelor's Degree Programme in Computer Science allows graduates to access the relevant Master's Degree Programme. By appropriately choosing the free exams, graduates may also enrol in other Master's Degree Programme without credit obligations.

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Bachelor's Degree / Science

Mathematics

Facility: Via Giuseppe Campi, 213/b
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-35 Class of
bachelor's degrees in mathematical
sciences

Required qualification:
Five-year high school diploma

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Algebra A (9)
Linear algebra (9)
Mathematical Analysis A (15)
Physics A (9)
Geometry (6)
General IT (9)
English language (3)

SECOND YEAR

Algebra B (6)
Mathematical Analysis B (6)
Mathematical Analysis C (9)
Numerical calculation (9)
Geometry B (15)
Mathematical Physics A (9)
Physics B (6)

THIRD YEAR

Probability and Statistics (6)
Numerical Optimisation (6)
Mathematical Physics B (6)

Optional teachings:

One teachings chosen from the following:
Markov chains (6)
Numerical analysis (6)

One teachings chosen from the following:

Algebraic topology (6)
Curve geometry (6)
Fundamentals of mathematics 1 (6)
Theory of measurement (6)
Theory of functions (6)

One teaching chosen from the following:

Algorithms and Data Structures (9)
Programming 1 (9)
Physics laboratory (9)

Electives (12)

Additional training activities (3)
Final examination (6)

PRESENTATION

The three-year degree in Mathematics provides a sound basic knowledge in all areas of Mathematics, a strong acquaintance with the scientific method, along with computer and language skills. The programme trains students to develop a high capability for synthesis and abstraction. The demand for such skills is very high in both public and private research organizations, in industry, banking, finance and insurance, and the high-technology service sector in general. This is all preparatory for those who intend to deepen their studies in the applied mathematical field, for those who want to start scientific research and for those who intend to devote themselves to the study of teaching and learning issues.

PROGRAMME CONTENTS

The programme provides a thorough study of some of the main areas of Mathematics: Algebra, Geometry, Mathematical Analysis, Mathematical Physics, Probability Theory, Numerical Analysis. Teachings in the fields of Physics and Computer Science and Computational and IT Laboratory activities are also offered. A wide range of electives are offered to allow for different educational programmes. The activities intended for practice, laboratories and the drafting of the degree thesis offer the student the opportunities to independently develop their skills and inclinations.

JOB OPPORTUNITIES

The natural path of mathematics studies continues in the master's degree programmes in Mathematics, to specialise in teaching activities, applied mathematics or scientific research, or in Vocational master programmes (1st level).

As regards access to the world of work, about half of graduates in mathematics are employed in the field of mathematics teaching and the dissemination of scientific culture. The other half mainly carries out qualified technical or professional tasks to support the activities of industry, finance, services and public administration.

The Bachelor's Degree in Mathematics allows graduates to access the Master's Degree Programme in Mathematics without credit obligations.

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Bachelor's Degree / Science

Geological Sciences

Facility: via Giuseppe Campi, 103
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-34 Class of bachelor's degrees in geological sciences

Required qualification:

Five-year high school diploma

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Mathematics and Information Technology (12)

General chemistry (8)

Physical geography and cartography of the territory (6)

Geology with rock laboratory and soil activity (9)

General Physics (6)

Mineralogy (9)

Palaeontology and Evolution (6)

English language (6)

SECOND YEAR

Geophysics with elements of seismology (6)

Geochemistry (6)

Petrogenesis and geodynamics (12)

Stratigraphic geology and geological maps (12)

Structural Geology and Tectonics (9)

Geomorphology and climate change (6)

Palaeontology with laboratory (8)

THIRD YEAR

Technical geology and hydrogeology for civil works and the environment (12)

Geological Survey (9)

Geographic information systems (GIS) and digital cartography (6)

Mineralogical analysis for the study of geomaterials (6)

6 credits among the following exams

Geology of the Italian territory (6)

Sedimentary environments (6)

Fossils and paleoenvironments (6)

Internship / Traineeship (5)

Electives (12)

Thesis / Final exam (3)

Elective courses can be chosen from those offered by the Degree Programme and / or other Bachelor's University programmes, as long as they are consistent with the educational objectives of the degree programme.

N.B. The study plan may be subject to changes. Any updates will be available on the website www.dscg.unimore.it or on the portal www.universitaly.it.

PRESENTATION

The Degree Programme offers a solid scientific preparation, thanks to the study of basic subjects and subjects related to the various fields of Geosciences, functional to the description and interpretation of exogenous and endogenous geological processes and to the understanding of the theoretical, experimental and applied aspects of the evolutionary processes of the planet, of geomaterials and of the main applications of geology, also on an environmental sustainability perspective.

PROGRAMME CONTENTS

The degree programme covers the basic subjects and the main disciplines of the Geosciences, both fundamental and applied. The programme includes exercises in the Department's laboratories and numerous practical activities in the ground, the most important place of learning for the geologist. Students are expected to spend a period of internal or external training in local, national or international institutions, companies or professional offices. Agreements with foreign universities allow students to take part of the programme abroad.

JOB OPPORTUNITIES

The general aim of the degree programme is to train graduates with a solid basic preparation in the Geosciences, who can continue their studies in the Master's degrees or enter the world of work, in the service, consultancy and industry

fields.

The professional areas of reference are those of operators specialised in the collection and management of geological data, in the monitoring of the environment, the territory and its resources, in the exploration, management and exploitation of natural resources, in laboratory analytical work on natural materials and geomaterials. After passing the state examination and enrolling in the professional register, Bachelor graduates may also exercise the profession of "Junior Geologist".

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www.dscg.unimore.it/site/home/didattica/corsi-di-laurea/scienze-geologiche.html

<https://www.plsgeo.unimore.it/>

Bachelor's Degree / Science

Natural Sciences

Facility: via Giuseppe Campi, 103
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-32 Class of
bachelor's degrees in sciences and
technologies for the environment and
nature

Required qualification:

Five-year high school diploma

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

OFA verification - additional credit obligations - (no CFU)

Chemistry (9)

Mathematics (9)

Comparative anatomy with elements of
animal cytology and histology (12)

English language (6)

Botany (10)

Zoology (9)

Physical Geography (6)

SECOND YEAR

Physics (6)

Organic Chemistry (6)

Mineralogy (12)

Genetics (7)

Mammalian Biology: Diversity, Adaptations,
Conservation (6)

Geomorphology (6)

Geology (12)

Palaeontology (10)

THIRD YEAR

Ecology (10)

Petrography (8)

Environmental Chemistry (6)

One teaching activity chosen from:

- Marine biology (6)

- Diversity of terrestrial plants (6)

- Italian fauna (6)

- Geomaterials for environment, industry
and agriculture (6)

- Paleocology (6)

- Continental water resources and sustain-
ability (6)

- Petrogeochemical monitoring techniques
for the environment

12 CFU - electives

Internship (6)

Thesis (6)

N.B. The study plan may be subject to
changes. Any updates
will be available on the website
www.dscg.unimore.it or on the portal www.universitaly.it.

PRESENTATION

If you actively experience contact with nature and observe the landscape around you with attention and curiosity, this is the Degree programme for you! The Bachelor's Degree Programme in Natural Sciences trains professional naturalists. It offers a modern and comprehensive cultural education oriented towards a systemic view of the natural environment, described and interpreted through the application of the scientific method. The Bachelor's Degree in Natural Sciences prepares students for surveying, classifying and interpreting the abiotic and biotic components of natural ecosystems and provides the scientific basis for formulating proposals for the management, conservation and restoration of natural systems.

PROGRAMME CONTENTS

The Bachelor's Degree Programme in Natural Sciences offers an inspiring atmosphere with an excellent teacher/student ratio. The main purpose is to train graduates to operate in the complex reality of natural environments and climate change, where several factors interact, through a profile with interdisciplinary knowledge and skills. The description of biotic and abiotic components, their interactions, and the understanding of the ecosystem processes are investigated in order to learn from the past, interpret the present and design a sustainable future. Internships in parks, nature reserves, museums, educational centres or in organisations involved in the conservation of natural as-

sets offer students the opportunity to enter the world of work.

JOB OPPORTUNITIES

The degree in natural sciences prepares access to professional fields such as environmental control technicians, agronomy and forestry technicians, specialised guides and escorts, teachers in vocational training and assimilated, museum and library technicians and assimilated. It allows students to register in professional orders and to exercise the relative professions: order of architects, planners, landscape architects and conservators, Section B - planning sector (title of junior planner); order of biologists, Section B (title of junior biologist), Register of Graduate Agro-Technicians and Agricultural Surveyors. The degree in Natural Sciences allows access, with no educational debits, to the recently established UNIMORE Master's Degree in Didactics and Communication of Sciences (LM-60), which represents a consistent continuation of the three-year degree programme, as well as other science and technology-related Master's degrees. It also allows access to first level university masters.

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Degree / Life

Biotechnologies

Facility: via Giuseppe Campi, 287
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-2 Class of bachelor's degrees in biotechnologies

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Animal Cytology, Histology and Embryology
- Plant Cytology (6 + 3)
General Chemistry with Laboratory (10)
Mathematics and exercises (7)
Organic Chemistry and Laboratory (8)
Physics and exercises (7)
Genetics and laboratory (7)
Computer science - Statistics (3+4)
English language (3)

SECOND YEAR

Biochemistry and laboratory (8)
Microbiology and General Virology (7)
Molecular Biology and Laboratory (10)
Cell Biology and Laboratory (12)
Omics analysis for the study of biological systems (chemical-physical - proteomic - genomic) (2 + 2 + 2)
Bioethics (6)
General Physiology (7)
Industrial Microbiology and Microbial Biotechnology (6)

THIRD YEAR

Structural biology (Structural principles of biological macromolecules - Methods of structural investigation of biomolecules) (6+6)
Immunology, General Pathology and Vaccinology (6+4)
General and molecular pharmacology and toxicology (6)
Bioinformatics (6)
Electives (12)
Internship and Final examination (12+2)

PRESENTATION

The Bachelor's Degree Programme in Biotechnology provides students with a mastery of general scientific methods and contents applicable to life sciences and provides for the acquisition of specific professional skills. It is characterized by a strong interdisciplinarity aimed at the acquisition of technical-scientific skills for the use of biological systems, interpreted in molecular and cellular terms, for the design and production of biotechnology products. The training activities are aimed at the acquisition of both substantial basic knowledge leading up to second-level in-depth studies, and skills to enter the world of work, in research institutions and in the biotechnological, pharmaceutical, energy, food and fine chemicals industrial sectors.

PROGRAMME CONTENTS

The Degree Programme in Biotechnologies includes three closely integrated training areas. The first one focuses on the study of basic scientific subjects, including mathematics, physics, and chemistry, that provide for the understanding and the theoretical-experimental study of biological phenomena. The second one provides students with theoretical knowledge and biotechnological methodologies for the study of biological systems, at molecular, cellular and tissue level. The third one covers technologies for the use and handling of biological systems for the production of goods and services in the medical, pharmaceutical and industrial fields. The teaching approach is innovative, promoting internship experiences and providing access to international programs for students and teachers' exchange programmes.

JOB OPPORTUNITIES

Graduates in Biotechnologies can carry out professional activities of intermediate technical-applicative framework using processes derived from biology and recombinant DNA techniques in the industrial production of innovative products, in health and in food biosecurity. His multidisciplinary training is in line with the multifaceted role of biotechnologies in many manufacturing and service sectors. The teachings upskill a professional profile for 3 (Health; Environment-Food; Energy-Bioeconomy-Industry) of the 5 themes related to the major challenges of Italy's Strategy contributing towards the creation of the European Research Area and within the objectives of the UN Agenda for Sustainable Development. The biotechnologist can participate in the State Exam for the exercise of the profession of junior biologist - Presidential Decree no. 328 of 5/06/2001.

The Degree Programme in Biotechnologies provides the training and the CFUs required to enrol in the Master's Degree Programme in Medical Biotechnologies, Industrial Biotechnologies, and Experimental and Applied Biology.

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Degree / Life

Biological Sciences

Facility: via Giuseppe Campi, 213/d
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-13 Class of bachelor's degrees in biological sciences

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Botany (9)
General Genetics (7)
Animal cytology and histology (7)
General chemistry (8)
Organic Chemistry (8)
Mathematics (7)
Physics (8)
English language (3)

SECOND YEAR

Plant physiology (5)
Microbiology (6)
Invertebrate Biology (8)
Molecular Biology and Molecular Techniques (9)
Biochemistry (7)
Developmental Biology and Cell Biology (10)
Ecology (7)
Experimental Biology Laboratory (7)
Computer Science (3)

THIRD YEAR

Comparative Anatomy (8)
Pharmacology, Toxicology and Hygiene (10)
Immunology and General pathology (8)
Physiology (9)
Electives (12)
Internship and Final examination (12+2)

PRESENTATION

Biology is a science that has achieved a prominent position in society in recent years. The Bachelor's Degree Programme in Biological Sciences covers all the main aspects of life sciences and their applications aimed at - without limitation - the safeguard of the environment and human health, as well as the quality control of organic production. The Bachelor's Degree Programme in Biological Sciences provides a solid theoretical and experimental basis on these topics thanks to teaching activities including lectures, laboratory exercises and an internship to be carried out in university research laboratories or in companies and institutions affiliated with the University.

PROGRAMME CONTENTS

The Bachelor's Degree Programme in Biological Sciences provides for step-by-step learning. The first year includes the basic subjects necessary to understand and analyse biological phenomena. Afterwards, teachings deal with biological systems and phenomena of increasing complexity, starting from molecules, cells and tissues; the organism, populations and communities, and ecosystems. The programme also deals with aspects applicable to areas including conservation and management of natural heritage and biodiversity, and the protection of human health. Experimental activities are planned for the preparation of the 1st level degree thesis and are carried out in the university laboratories or in external institutions. The training activities are enriched with free-choice teachings that enable students to further explore topics of interest.

JOB OPPORTUNITIES

Bachelor's graduates will acquire theoretical, methodological and experimental skills concerning the structure, development and functions of the living organisms and their interactions with the environment. The experience gained in the laboratories will enable them to work in the following areas: quality control of organic production, biological monitoring, management and protection of ecosystems, product and chemical analysis, nutritional consultancy, biological control in the agri-food sector and public health. Bachelor's graduates may also complete their training with a Master's Degree Programme and take the State Examination for the practice of the profession of Junior Biologist (Presidential Decree no. 328 of 5 June 2001).

The Degree Programme in Biotechnologies enable students to enrol in the Master's Degree Programme in Medical Biotechnologies, Industrial Biotechnologies, and Experimental and Applied Biology.

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Degree / Life

Agricultural and Food Sciences and Technologies

Facility: via Amendola, 2 Pavilion Besta

42122 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L-25 Class of bachelor's degrees in Agricultural and Forestry Sciences and Technologies
L-26 Class of bachelor's degrees in food sciences and technologies

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Animal biology (6)

Vegetable biology (7)

Chemistry (6+6)

Physics (6)

Fundamentals of genetics (6)

Mathematics (6)

Principles of Economics (5)

English language (3)

SECOND YEAR

Biochemistry (7)

Biology of Microorganisms (7)

Entomology and Plant Pathology (6 + 8)

Food Industry Processes (8)

Plant production (6 + 6)

Livestock production (6)

THIRD YEAR

Shared:

Electives (12)

Other Activities (3)

Internship (8)

Final examination (6)

Agricultural Technologies Curriculum

Agronomy (6)

Plant physiology (6)

Fruit-growing and Viticulture (6)

Economy and Rural Genius (5 + 6 + 5)

Genetic Enhancement (6e)

Pet nutrition and feeding (6)

Food Technologies Curriculum

Analytical Chemistry (5 + 6)

Economics and management of the food company (6)

Food packaging (6)

Food Engineering (8)

Food Microbiology (8)

Technologies and industries of products of animal origin (7)

PRESENTATION

The Degree Programme aims to provide professional knowledge and skills that ensure a comprehensive view of the agri-food chain, from production to consumption. The contents of the course provide students with knowledge of agricultural production and the food industry, aimed at producing quality foods that are also healthy for consumers, taking advantage of the innovations offered by modern technologies, while respecting the environment and sustainability.

PROGRAMME CONTENTS

During the two-year period with common teachings, students acquire knowledge and methodological tools that provide them with the skills to follow, starting from the third year, a more specialised path by choosing one of the two curricula available. The Agricultural Technology programme addresses the problems and perspectives related to the production sector, giving importance to the typical teachings of the agricultural area (agronomy and cultivation, traditional and organic breeding, improvement, environmental protection, applied technologies, enhancement) with specific regard to innovation and sustainability. The Food Technology programme leads to the acquisition of knowledge in food technology (food engineering and technological processes, microbiology, analytical chemistry, food packaging) with a view to a responsible and innovative food quality management. The programme includes a training internship in affiliated companies or organizations that is an effective opportunity for getting in touch with the world of work.

JOB OPPORTUNITIES

The Degree Programme in Agricultural and Food Science and Technology provides the skills needed to perform tasks and assume technical and technical-managerial roles in the production, conservation and distribution activities developed by the companies that make up the overall agri-food system and in public and private organisations that conduct analysis, control, certification and surveys for the protection and enhancement of agri-food production. Graduates can also work in companies dedicated to the production of materials, machines and plants, adjuvants, ingredients and pesticides.

The Degree Programme in Agricultural and Food Sciences and Technologies allows students to access the Master's Degree Programmes in Food Control and Safety (LM-70), Integrated Sustainability of Agricultural Systems (LM-69) and the Inter-University Master's Degree Programme (English-taught) in Food Safety and Risk Management (LM-70).

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Single-cycle Master's Degree / Life

Pharmaceutical Chemistry and Technology

Facility: via Giuseppe Campi, 103
41125 Modena

Duration: 5 years

Training Credits: 300

Degree Class: LM-13 - Class of master's degrees in pharmacy and industrial pharmacy

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

The study plan is being revised. For the up-to-date study plan, please see the website: www.dsv.unimore.it

FIRST YEAR

Human Anatomy (6)
Animal Biology (6)
General and Inorganic Chemistry (9)
Institutions of Mathematics (9)
Analytical Chemistry (6)
Organic Chemistry I (9)
Physics (9)
English language (5)

SECOND YEAR

General Biochemistry (6)
Plant Biology (6)
Organic Chemistry 2 (9)
General Physiology (7)
Drug Analysis (9)
Physical Chemistry (6)
Microbiology (6)
General pathology (with elements of medical terminology) (6)

THIRD YEAR

Applied Biochemistry and Recombinant DNA technology (6 + 3)
Pharmaceutical and Toxicological Chemistry 1 (10)
Pharmaceutical Extractive and Synthetic Preparation Laboratory (10)
Physical Methods in Organic Chemistry (6)
Food Chemistry (6)
Pharmacognosy (6)
Pharmacology and Pharmacotherapy - Molecular Pharmacology (6 + 6)

FOURTH YEAR

Instrumental analysis of medicines (10)
Pharmaceutical and Toxicological Chemistry 2 (10)
Pharmaceutical technology, socioeconomics and legislation and galenic laboratory (12)
Technological Drug Manufacturing (9)

Drug Delivery and Direction (9)
Toxicology (6)
Electives (8)
Other training activities (3)

FIFTH YEAR

Job-oriented internship (30)
Final examination (30)

PRESENTATION

Do you think science subjects are fascinating? Would you like to deepen and apply your knowledge of biology and chemistry to the world of pharmaceuticals and health products? Would you like to become a scientist in a laboratory for the design, development, production and control of drugs? The single-cycle Master's Degree in Pharmaceutical Chemistry and Pharmaceutical Technology (CTF) offers you these opportunities. Through a well-articulated path that focuses attention on the needs of the pharmaceutical industry and health products, the Degree Programme provides skills and professionalism in the field of production, quality control and distribution of drugs, food, cosmetics, medical devices and biomedical products in general.

The employment rate one year after graduation (AlmaLaurea Survey 2022) is very high (89%), on average, over the years, the value has always been close to 80%, even during the pandemic. In addition, more than 80 per cent of those in employment rated their degree as very effective in their work, reflecting their satisfaction with the training offered by the degree programme.

PROGRAMME CONTENTS

The single-cycle Master's degree programme in Chemistry and Pharmaceutical Technology focuses mainly on chemical, pharmaceutical, biological, technological and

regulatory disciplines. The teaching programme is therefore initially aimed at providing a solid knowledge of basic subjects (Biology, Inorganic Chemistry, Organic Chemistry, Anatomy, Physiology...) and then focuses on professional subjects (Pharmaceutical Chemistry, Pharmacology, Pharmaceutical Technology...). The programme strength is the opportunity to test the theoretical knowledge acquired through exercises in the teaching laboratories (also single-seat workshops). During the fifth year, students undertake an internship of at least six months in a partner pharmacy. During the same year, they can focus on their degree thesis; this experience can be carried out in a university research laboratory at home or abroad (Erasmus programme in Portugal, Spain, Switzerland, Greece, France, Germany, Hungary and the Czech Republic, Belgium, Ireland, and Austria) or in Italian or foreign companies.

JOB OPPORTUNITIES

At the end of the 5-year training programme, graduates in Pharmaceutical Chemistry and Technology are skilled to work electively in the pharmaceutical and health products industry. In particular, the master's degree prepares students for the following professional activities: expert in drug research and development in the industry, in public and private research centres, in universities; expert in the production of raw materials and finished pharmaceutical forms; expert in quality control of drugs, food, health products. Other areas of interest for master's graduates in Chemistry and Pharmaceutical Technology are patenting and registration of drugs, marketing and workshop management for the production of galenics and cosmetics. Master's graduates in Chemistry and Pharmaceutical Technology and can work as a pharmacist.

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Single-cycle Master's Degree / Life Pharmacy

Facility: Via Giuseppe Campi, 103
41125 Modena

Duration: 5 years

Training Credits: 300

Degree Class: LM-13 - Class of
master's degrees in pharmacy and
industrial pharmacy

Required qualification:

Five-year high school diploma

Access: Limited number, details are
provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

In the process of being finalised for regula-
tion revision.

FIRST YEAR

Computer science e medical statistics (6)
General and Inorganic Chemistry (10)
Animal biology (6)
Plant biology and botany (10)
Human anatomy (7)
Physics with elements of mathematics (6)
Analytical chemistry and pharmaceutical
analysis laboratory (8)
English language B2 (3)

SECOND YEAR

Quantitative analysis of medicines and
health products (7)
Organic Chemistry (10)
Biochemistry and applied biochemistry (12)
Physiology (8)
Microbiology and Hygiene (12)
General pharmacology (6)

THIRD YEAR

Pharmacognosy and phytotherapy (8)
Pharmaceutical and toxicological chemistry
I (11)
General pathology (with el. of medical termi-
nology) and Immunology (10)
English language (2)
Pharmaceutical and Toxicological Chemis-
try 2 (11)
Pharmacology and Pharmacotherapy (10)
Diet products (8)

FOURTH YEAR

Qualitative analysis of drugs and health
products (7)
Pharmaceutical legislation and deontology
(7)
Pharmaceutical Technology and Innovative
Pharmaceutical Forms (13)
Toxicology and pharmacoepidemiology (10)
Galenic preparations laboratory (6)
Cosmetic products (6)
Chemotherapy, biological drugs and ad-

vanced therapies (9)
Business management - Pharmacy man-
agement (6)

FIFTH YEAR

Electives (12)
Additional training activities (8)
Evaluation practical vocational training (30)
Final examination (15)

PRESENTATION

Are you interested in a profession that specifically deals with the problems of health and well-being of the person? Would you like to have a training in pharmaceuticals, cosmetics, dietetics, food and herbal medicine to serve the citizens? The single-cycle Master's Degree in Pharmacy could help you fulfil these aspirations. This degree programme aims to train experts in drugs and health products (cosmetics, dietetic and nutritional products, herbal medicines, medical-surgical aids, healthcare products). These skills open up a range of job opportunities. Graduates in Pharmacy find employment mainly as pharmacists in pharmacies open to the public, public or private, or after specialisation in hospital pharmacy at hospital and territorial facilities of local health authorities. With a solid background in pharmacology, chemistry, pharmaceutical technology and regulations, graduates in Pharmacy work actively with doctors and healthcare facilities in guiding patients to use drugs correctly. Graduates in Pharmacy can also apply their skills in the field of health information and education or in the production and trade of medicines and health products. Graduates in Pharmacy find employment within approximately one year after graduation (83.3%, AlmaLaurea 2022 data). Graduates in Pharmacy, one year after graduation consider the acquired degree to be very effective/effective for their work (95%, AlmaLaurea 2022 data), and are overall satisfied with the degree

programme in the Department of Life Sciences (8.2 AlmaLaurea 2022 data).

PROGRAMME CONTENTS

The single-cycle Master's Degree Course in Pharmacy provides lectures both in basic subjects (physics, chemistry, biology, medicine) and in subjects that are distinctive of the future profession of pharmacist, such as pharmacology, pharmaceutical chemistry, toxicology, the preparation of galenic medicines, the study of laws related to the distribution of medicines, as well as professional and ethical responsibilities. Classroom lectures are integrated with practical workshops and seminars carried out in collaboration with the world of work. The fifth year includes a compulsory internship (evaluative practical internship of at least six months in an affiliated pharmacy) and the preparation of the thesis. The Degree Programme also gives students the opportunity to carry out internships in various European universities (Spain, Portugal, France, Germany, Switzerland, United Kingdom, Hungary, Czech Republic and Greece).

JOB OPPORTUNITIES

At the end of the university programme, students are qualified as pharmacists, i.e. they become professionals in the health area who, within the scope of their multidisciplinary scientific and technological skills (chemical, biological, biochemical and biomedical, pharmaceutical, pharmacological, toxicological, technological legislative and deontological) are able to work for public health purposes, also through the personalised accompaniment of patients, including chronic patients, for the adherence to pharmacological therapies, and advice to the healthy person for

the prevention of diseases both in pharmacies and parapharmacies and in the facilities of the National Health Service. Thanks to the multidisciplinary scientific background acquired, graduates in pharmacy can also work in the pharmaceutical and health product industry in both production and control and in intermediate distribution.

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Constructions and Territorial Management

Facility: Via Pietro Vivarelli, 10
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-P01 Class of
job-oriented bachelor's degrees in
technical professions for construction
and the territory

Required qualification:

Five-year high school diploma

Access: Limited number, details are
provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Mathematical Analysis and Geometry (9)
Physics (6)
Chemistry and Building Materials Laboratory (6)
Computer science and statistics laboratory (6)
Drawing (6)
Elements of private law and agricultural law (6)
Topography with laboratory (9)
English language (3)

SECOND YEAR

Laboratory of administrative law and territorial bodies (6)
Energy and plants lab (9)
Economics and Business Accounting (9)
Architectural and urban composition with laboratory (6)
Building science with laboratory (9)
Territorial and urban planning lab (6)
Environmental Sustainability Lab (6)

THIRD YEAR

Estimation and real estate appraisals with laboratory (9)
Elective exams (12)
Internship (professional experience and construction site) (51)
Thesis - Final Exam (6)

Electives:

Contract, procurement, and civil works law (6)
Advanced English (3)
Environmental law (6)
Labour law (6)
Public works legislation and occupational safety (6)
CAD laboratory (3)
Soft skills for sustainability (3)
History of urban and environmental design (6)

PRESENTATION

The job-oriented Degree Programme in Constructions and Territorial Management (degree class L-P01) offers an adequate mastery of scientific and technological methods and content with the acquisition of specific professional competences and skills required in the sector. The main feature of the Programme is to ensure, even by means of extra-university teachings entrusted to external experts and professionals, a balanced level of knowledge/competencies/skills required to work as self-employed professionals as technical experts in the construction, infrastructure, and environmental protection sectors. This modern professional figure can be compared to the graduate surveyor, as identified by the recent European legislation on intermediate professions (MD 446/2020). Pursuant to L. 8.11.2021 no. 163, the Degree Programme qualifies for the practice of the profession of surveyor. In fact, with the professional degree, no state examination is required.

PROGRAMME CONTENTS

The training of graduate surveyors needs several cultural and technical components relating to constructions, valuations, topography (essential and classical areas of the profession), without forgetting the basic concepts. The professional internship is strictly included in the degree programme, in order to better link it to the training activity and reduce the time for graduates to enter the job market. The first year is dedicated to basic subjects, along with topography and construction materials. The second year offers contents of construction science, urban planning, accounting, environmental sustainability, law and energy with various workshop activities. The third year includes esti-

mo and curricular internship.

JOB OPPORTUNITIES

The programme aims to train, in the construction sector and civil and rural infrastructure, a multi-purpose, versatile technical figure with a strong propensity to use the most modern technologies. Graduates will achieve a suitable level of training in reference application subjects and a solid wealth of operating knowledge that is essential to operate independently in several fields, including drawing up building practices, technical specifications, maintenance plans, technical drawings and legal surveys; project management in design studies and construction companies; structural and architectural design and management of works and manufactured goods for the construction sector; monitoring and structural diagnostics; topographical surveying and cadastre management and update; estimate valuations and work accounting.

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Civil and Environmental Engineering

Facility: Via Pietro Vivarelli, 10
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-7 Class of bachelor's degrees in civil and environmental engineering

Required qualification:
Five-year high school diploma

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Mathematical analysis 1 (9)
Mathematical analysis 2 (9)
Computer Science (6)
Applied Geology (6)
General Physics (9)
English language assessment test (3)

Environmental Engineering Curriculum

Chemistry Fundamentals (6)
Fundamentals of chemistry for the environment (9)
Geometry and Linear Algebra (6)

Civil Engineering Curriculum

Chemistry Fundamentals (6)
Drawing (6)
Geometry (9)

SECOND YEAR

Technical physics (9)
Hydraulics and Hydraulic Construction (9)
Rational mechanics and statistics (9)
Geomatics (9)
Building science (9)

Environmental Engineering Curriculum

Environmental Health Engineering (9)

Civil Engineering Curriculum

Chemistry Applied to Materials (9)

THIRD YEAR

Environmental Engineering Curriculum

Geotechnics (6)
Chemistry Applied to Materials (9)
Structure Projects for Environmental Engineering (9)
Sanitary treatment environmental plants (12)
Energy machines and systems (6)

Civil Engineering Curriculum

Geotechnics (9)
Construction technology (12)
Complements of construction science (12)

Dynamics of structures (9)

For both curricula:

Final examination (3)
Internship / project activity / electives (up to 180 total credits)

Elective teachings for all:

Contract, procurement, and civil works law (6)
Economics and business organisation (6)
Soft skills for sustainability (3)
CAD laboratory (3)
History of urban and environmental design (6)
Advanced English (3)

Elective teachings for the Environmental Engineering Curriculum:

Environmental law (6)
Labour law (6)

Elective teachings for the Civil Engineering Curriculum:

Numerical calculation (6)
Public works legislation and occupational safety (6)

PRESENTATION

Civil and Environmental Engineers share the common objective of improving the quality and safety of natural and built environments we live in. They help design structures and infrastructures such as residential and industrial buildings, dams, ports, water and sewage systems, roads, bridges, galleries, railways and airports. They also carry out analysis and monitoring processes of seismic and water risk, and other environmental risks, and help manage natural resources and energy.

PROGRAMME CONTENTS

The Degree Programme in Civil and Environmental Engineering is divided into two different areas: Civil Engineering and Environmental Engineering. The curriculum is chosen in the first year. The two curricula share the same scientific and engineering fundamental subjects, whereas they differ in other subjects that feature more specific application contents. Civil Engineering

focuses on structures and infrastructures, i.e. on everything that is human-built. On the other hand, Environmental Engineering focuses on development sustainability, natural resource and solid, liquid, and gaseous waste management, and environmental risk monitoring.

JOB OPPORTUNITIES

Civil engineering graduates find work in professional firms, public and private building companies, agencies and institutions in charge of territorial system planning and management, or environmental risk protection. They can also work for multi-utility companies responsible for the distribution network management, water and waste treatment, natural and energy resource management. The Bachelor's Degree in Civil and Environmental Engineering provides direct access to Master's Degrees in Civil and Environmental Engineering (LM-23 and LM-35).

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Bachelor's Degree / Technology

Human-centred Medical System Engineering

Available in blended mode, interuniversity with the University of Verona and the University of Trento.
Administrative headquarters at the University of Verona.

Facility: Strada Le Grazie, 15 - 37134 Verona

Duration: 3 years

Training Credits: 180

Degree Class: L-8 Class of bachelor's degrees in information engineering

Required qualification:
Five-year high school diploma

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

DEVICES AND ROBOTS CURRICULUM

FIRST YEAR

Programming languages and tools with laboratory (12)
Anatomy and Physiology (12)
Linear algebra and geometry (9)
Mathematical analysis I (6)
Computer architectures and introduction to networks with laboratory (9)
Inorganic and Organic Chemistry (6)
Mechanics and thermodynamics (6)

SECOND YEAR

Analysis 2: applications and mathematical methods (12)
Analog and digital electronics with laboratory (12)
Elements of mechanics with laboratory (9)
Electromagnetism and optics (6)
Introduction to the analysis of systems and signals with laboratory (9)
Materials Science (6)

THIRD YEAR

Biomedical instrumentation (6)
Ethics and psychology (6)
Principles of robotics and applications to surgery (6)
Integrated development of collaborative devices and robots and for the biomedical industry (6)
Systems and automated controls (6)
Electives (6)
Alternative teaching module (6)
English language - language skills (3)
Medical Technology Design and Development (9)
Final examination (6)

SIGNALS AND DATA CURRICULUM

FIRST YEAR

Programming languages and tools with laboratory (12)
Anatomy and Physiology (12)
Linear algebra and geometry (9)

Mathematical analysis I (6)
Computer architectures and introduction to networks with laboratory (9)
Inorganic and Organic Chemistry (6)
Mechanics and thermodynamics (6)

SECOND YEAR

Analysis 2: applications and mathematical methods (12)
Analog and digital electronics with laboratory (12)
Elements of mechanics with laboratory (9)
Electromagnetism and optics (6)
Introduction to the analysis of systems and signals with laboratory (9)
Medical Informatics (6)

THIRD YEAR

Biomedical instrumentation (6)
Ethics and psychology (6)
Biomedical Image Acquisition and Analysis (6)
Methods and devices for telemedicine (6)
Methods, Measurement Techniques and Sensors (6)
Electives (6)
Alternative teaching (6)
English language - language skills (3)
Medical Technology Design and Development (9)
Final examination (6)

PRESENTATION

The Degree Programme aims to train professionals who can develop and manage innovative equipment and services based on IT and engineering technologies supporting both social-healthcare staff and patients in the prevention and care of diseases. In this regard, respect and attention to the person will be central, not only regarding the scientific, preventive, diagnostic, therapeutic, and rehabilitative aspects, but also from a social, moral, legal, and psychological point of view.

PROGRAMME CONTENTS

The classical basic knowledge of engineering and bioengineering training with those of robotics, AI, remote control and monitoring systems, safety and ethics issues, characterise the two teaching programmes available. The student's

training programme will include in the third year an application project involving different disciplines of the profile chosen by the student.

JOB OPPORTUNITIES

In addition to ensuring the continuation of studies in Master's degree programmes, graduates will be able to find employment in public and private companies in the biomedical, pharmaceutical and biotechnology sectors. Upon passing the state exam, graduates may also enrol in the register of biomedical and clinical engineers, section B.

President of the Degree Programme

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Bachelor's Degree / Technology

Vehicle Engineering

Facility: Via Pietro Vivarelli, 10
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-9 Class of bachelor's degrees in industrial engineering

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Mathematical Analysis 1 (9)
Industrial technical drawing (6)
Geometry and Linear algebra (6)
Mathematical analysis 2 (9)
General Physics (12)
Chemistry (6)
English (3)

SECOND YEAR

Rational Mechanics (9)
Vehicle Materials (6)
Technical Physics (9)
Sensor Fundamentals (6)
Electrotechnics and Electrical Machines (9)
Numerical Calculation and Mathematical SW (9)
Machine construction fundamentals (6)

THIRD YEAR

Machine construction (9)
Machine and engine fundamentals (12)
Design and CAD Fundamentals (6)
Vehicle Mechanics (12)
Vehicle Technology (9)
Setup and development of SAE * formula vehicles (9)

Electives (12)

Economics and business Organisation (6)
Industrial plant safety (6)
Advanced English (3)
Final examination (6)
Internship / Project Activity (3/9/15)

PRESENTATION

The Bachelor's Degree Programme is intrinsically connected with the automotive industries operating in the area and beyond. Thanks to their cross-cutting and broad spectrum training, graduates may access any industrial sector, even if not strictly connected with the automotive, motorcycle, and off-road sector. The global demand for young automotive engineers is quite strong and occupational levels are high.

PROGRAMME CONTENTS

The first part of the programme provides the fundamentals of mathematics, physics and chemistry. Starting from the first year, they are combined with specific teachings that are essential to properly address general vehicle engineering themes: mechanical drawing, thermodynamics and heat transmission, energy conversion systems, fluid machinery, electrical engineering, electric machines, sensors, machinery and mechanism design, mechanic technology, materials science.

Teaching is based on classroom lectures and laboratory activities. The Programme offers students the opportunity to apply and further explore their own engineering knowledge by taking part in University "Learning-by-Doing" projects, that provide for the realisation of car and bike prototypes to compete with Engineering students all over the world. The Programme also offers students the opportunity to study abroad and approach the job market by carrying out internships in companies.

JOB OPPORTUNITIES

At the end of the three years, students become Automotive Engineers. The main employment sector

is the automotive industry and its satellite activities. The professional profile of the Automotive Engineer is based on sound technical and scientific fundamentals, together with a broad overview of the vehicle system. The Automotive Engineers are able to assist in designing and developing the main vehicle sub-systems, as well as take part in the development and management of technological and manufacturing processes. In addition to technical and engineering skills, automotive engineers boast soft skills aimed at communicating the technical contents, planning the management of project activities, and continuously refining the theoretical and practical skills through a "learning by doing" approach. These functions will be carried out when working both in manufacturing industries and engineering companies.

The degree programme allows students to access the Master's Degree in Vehicle Engineering and the new Master's Degree in Advanced Automotive Engineering (in English), but also the master degree programmes in Mechanic Engineering and Materials Engineering. Access to these degree programmes is ensured with no educational debits.

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Electronics Engineering

Facility: Via Pietro Vivarelli, 10
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-8 Class of bachelor's degrees in information engineering

Required qualification:
Five-year high school diploma

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Mathematical Analysis 1 (9)
Linear Algebra (9)
Fundamentals of information technology (9)
Chemical Physics (15) - Physics Module (9)
Chemistry Module (6)
Mathematical analysis 2 (9)
Circuit Electronics Laboratory (6))
English language (3)

SECOND YEAR

Theory of Aleatory Phenomena (6)
Mathematical Methods and Models (6)
Circuit Theory (6)
Architecture of Electronic Calculators (9)
Signals and Systems for Telecommunications (9)
Automated controls (9)
Digital Electronic Systems (9)

THIRD YEAR

Propagation and Antennas (12)
Analogue Electronics (12)
Telecommunication Networks and Internet (9)
Electronic Measures (9)
Economics and business organisation (6)
Final examination (3)

PRESENTATION

In the modern world, most of man-made innovation products work thanks to electronics, they are manufactured in companies with a high degree of automation, and allow for an unprecedented level of connectivity between men, machines and man-machine. This trend is expected to accelerate further strongly in the future. For all these developments, the Electronics skills are of crucial importance and for this reason, among the various sectors of Engineering, Electronics stands out for the number and remuneration of its job opportunities.

If this is not enough to motivate the choice of Electronics Engineering, it is worth noting that the supply of electronic engineers in the geographical area of reference for the University of Modena and Reggio Emilia greatly exceeds the demand from companies, even more by including those operating on the largest national and international scale. Excellent job opportunities and the chance to work on the cutting edge of the most modern technologies: here are two good reasons to enrol in Electronics Engineering.

PROGRAMME CONTENTS

The Degree in Electronics Engineering leads students to master general scientific methods and contents of the discipline. First of all, it provides all the basic knowledge of Mathematics, Physics, Chemistry and Computer Science, which are indispensable in the field of Engineering and, in particular, in the fields of electronics, communications and automation. This knowledge is also put into practice in laboratory activities and enriched with internships in the company.

JOB OPPORTUNITIES

Graduates in Electronics Engineering are professionals with a solid background in the basic sciences, essential skills in computer science and in automatic controls, and specialised professional knowledge in electronics and telecommunications. The wealth of knowledge and methodologies acquired train graduates to easily enter the job market. Graduates in Electronics Engineering may carry out their professional activity in several fields, such as manufacturing and management, both as independent professionals and working in public and private companies.

The degree programme in Electronic Engineering allows graduates to access the International Master Degree in Electronic Engineering, fully provided in English, with no credit obligations.

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Computer Engineering

Facility: Via Pietro Vivarelli, 10
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-8 Class of bachelor's degrees in information engineering

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Fundamentals of information technology (9)

Geometry (9)

Mathematical analysis 1 (9)

English (B1 level) (3)

Data structures and algorithms (9)

Mathematical analysis 2 (8)

Applied Mathematics and Statistics (5)

Economics and business organisation (5)

SECOND YEAR

Databases (9)

Automated controls (9)

General Physics (9)

Operating Systems (9)

Object-oriented programming (6)

Electronics for digital systems (9)

Operational research (6)

THIRD YEAR

Computer Architecture (9)

Software Engineering (9)

Artificial Intelligence and Machine Learning (6)

Telecommunication Fundamentals (9)

Computer Networks (9)

Web and mobile technologies (6)

Electives (15)

Final examination (3)

PRESENTATION

The term computer science refers to everything that concerns automated information processing, from the collection of data to the application of techniques for processing and extracting knowledge from them. In a digitised world, such as the one we live in, where the presence of data is pervasive, possessing skills to manage and analyse them offers an undoubted competitive advantage. This is why one can consider the IT engineer as the profession of the future.

A degree in Computer Engineering then guarantees easy access to the world of work where the demand for computer engineers far exceeds the number of graduates.

PROGRAMME CONTENTS

The IT engineer must know how to design and implement software applications. 50% of the subjects studied are specific of Computer Engineering and include core subjects such as programming, algorithms and data structures, database design, operating systems, computer architecture and software engineering. These are complemented by specialised knowledge indispensable for developers, such as web technologies and machine learning. Classroom activities are complemented by practical activities in the laboratory for immediate verification of learning. According to research studies carried out by Alma Laurea, 97% of our graduates state that "using the skills acquired during their studies has proven to be useful for their job", whereas 94% confirm that "the study programme has proven to be effective in their job".

JOB OPPORTUNITIES

With the degree, one becomes a Graduate in Computer Engineering with a wide-ranging education, which will enable one to understand all aspects of computer science in its many fields. Graduates will be able to design and implement software solutions using state-of-the-art technologies and methodologies. Graduates will be able to complete your preparation by enrolling in the Master Degree or directly enter the job market, also thanks to the relations with the company in which you will have the opportunity to apply for a training internship. The IT pervasiveness in all sectors give our graduates the opportunity to find a job in multinational or regional IT companies, both local and national or multinational, in international consultancy companies, in public administrations and in all national and international medium-large manufacturing companies. Graduates will also be able to undertake an entrepreneurial activity, with just a few simple investments: many ideas, a personal computer and an Internet connection.

The Degree in Computer Engineering provides direct access to the Master's Degree in Computer Engineering and Artificial Intelligence Engineering (provided in English) with no educational debits.

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Mechanical Engineering

Facility: Via Pietro Vivarelli, 10
41125 Modena

Duration: 3 years

Training Credits: 180

Degree Class: L-9 Class of bachelor's degrees in industrial engineering

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Mathematical Analysis 1 (9)
Chemistry (6)
Industrial technical drawing (6)
Mathematical analysis 2 (9)
General Physics (12)
Geometry and Linear algebra (6)
English (3)

SECOND YEAR

Rational Mechanics (9)
Materials Science and Metallurgy (9)
Numerical Calculus and Mathematical Software (9)
Technical Physics (12)
Electrotechnics and Electrical Machines (9)
Machine construction fundamentals (6)

THIRD YEAR

Common to both curricula
Machine construction (9)
Final examination (3)
Internship / Project Activity (3/9/15)

General Curriculum

Energy Machines and Systems (12)
Mechanical Technology (12)
Design and CAD Fundamentals (6)
Mechanics Applied to Machines (12)
Fundamentals of Plants and Logistics (6)

Materials Curriculum

Computer Aided Design (6)
Machines and Oil Hydraulics (6)
Mechanical Technology (6)
Machinery applied mechanics (6)
Selection of Materials and Tribology (12)
Polymers and composites (12)

PRESENTATION

The Degree Programme in Mechanical Engineering, which for years has counted a high number of enrolled students, relies on a strong relationship with the mechanical industries of the area, where graduates easily find a job. Furthermore, graduates in Mechanical Engineering can enter any other industrial sector, even if not strictly mechanical, and therefore the global demand for young mechanical engineers is very strong and far exceeds the offer.

PROGRAMME CONTENTS

The degree programme is divided into two curricula: General and Materials. Students learn basic knowledge in mathematics, physics and chemistry, as well as engineering knowledge such as mechanic drawing, thermodynamics, analysis of mechanisms and their sizing, the building principles of machines and fluid machinery operation, and manufacturing technologies. Fundamentals are also provided relating to metallurgy, science of materials, electrical engineering and basic methods, and languages for programming the scientific calculation. In addition to the classroom lessons, laboratory activities are also provided. For some years now, the programme has been offering students the opportunity to design and make a Formula Student and Moto Student vehicle, a prestigious competition for Engineering students all over the world. The programme offers the opportunity to study abroad and to get in touch with the world of work even before graduating, by carrying out training internships in the company.

JOB OPPORTUNITIES

Graduates obtain the Bachelor's Degree in Mechanical Engineering. Graduates in Mechanical Engineering carry out professional activities in various fields and are involved in designing components and mechanic systems, manufacturing, managing and organising production systems. They also support technical and business structures, risk analysis, and safety management in the prevention and emergency phases.

The Bachelor's degree programme in Mechanical Engineering allows students to access the Master's Degree in Mechanical Engineering, Vehicle Engineering, Materials Engineering, and Advanced Automotive Engineering offered by the Department. Access to these degree programmes is ensured with no credit obligations.

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Management Engineering

Facility: Via Amendola, 2 - Pav.
Buccola-Bisi
42122 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L-9 Class of bachelor's degrees in industrial engineering
L-8 Class of bachelor's degrees in information engineering

Required qualification:

Five-year high school diploma

Access: Unlimited

plants (9)
Industrial technical physics (9)
New photovoltaic technologies (6)

"Manufacturing-Goods and services" curriculum

Mechanics of machines and structures (9)
Design, prototyping and development of industrial products (9)
Manufacturing processes and methods for product development (6)

Electives (12)
Internship (9)
Final examination (3)

tive digital and creative enterprises (e.g. highly automated companies, including collaborative robotics solutions, fashion companies, companies offering web solutions), ICT - Data management, with a focus on data flow management, thus including the possibility of producing ad hoc software for manufacturing, service or public administration companies.

JOB OPPORTUNITIES

Graduates in Management Engineering will be able to develop activities in various fields, both as self-professionals and employed in manufacturing and service companies, as well as in public administration. In particular, they will be able to provide solutions for production systems, material production and supply management, logistics, business organisation, project management, management control systems, and IT system management supporting business activities. The programme allows graduates to register in professional and trade associations in the industrial and information fields.

The Degree in Management Engineering provides direct access to the Advanced Master Programme in Management Engineering with no credit obligations.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Fundamentals of Mathematical Analysis (12)
Applied mathematics (9)
Chemistry (6)
General Physics I (6)
Programming Fundamentals (6)
Geometry and Linear algebra (9)
English (3)

SECOND YEAR

Physics 2 (6)
Automated controls (6)
Fundamentals of Business Administration (9)
Principles and applications of electricity (6)
Operations Research Fundamentals (6)
Organisational systems and behaviours (9)
Technologies and industrial plants (12)
Information Systems (12)

THIRD YEAR

Business Management (6)
Logistics & Production Management (9)

"ICT-Data management" curriculum

Telecommunication Networks (6)
Programming Languages and Systems (9)
Models and methods for decision-making support (9)

"Ict - digital and creative industries" curriculum

Design and management of facilities for digital and creative industries (6)
Industrial Electronic Systems (9)
Methods and algorithms for optimisation in the digital and creative industry (9)

"Production-Energy" curriculum

Design of sustainable buildings and industrial

PRESENTATION

Management Engineers have a versatile professional profile, characterized by a strong engineering and multidisciplinary approach to problems. The degree programme includes four curricula: 1) Manufacturing – Goods and services, 2) Production – Energy, 3) Information and Communication Technology (ICT)-Digital and creative industries, 4) ICT – Data management.

PROGRAMME CONTENTS

The Degree Programme in Management Engineering is aimed at providing graduates with a proper training in basic sciences, as well as in industrial and information engineering subjects.

The training programmes offered, starting from the third year, are as follows:

Manufacturing - Goods and Services, with a focus on product and process design for the manufacturing and service industries,
Production - Energy, which emphasises the identification and optimisation of the energy needs of production processes for the manufacture of products or the provision of services,
ICT - Digital and Creative Industries, with a focus on the needs of innova-

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Mechatronic Engineering

Facility: Via Amendola, 2 - Pav.

Buccola-Bisi
42122 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L-9 Class of bachelor's degrees in industrial engineering
L-8 Class of bachelor's degrees in information engineering

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Mathematical Analysis A (9)
Mathematical Analysis B (9)
Chemistry (6)
Physics I (9)
Geometry and Linear algebra (9)
Physics 2 (6)
English (3)

SECOND YEAR

Fundamentals of information technology (9)
Rational mechanics and Construction Science (12)
Automated controls (6)
Machine Design and Construction (9)
Electrotechnics and Electrical Machines (9)
Mechanics Applied to Machines (9)
Industrial technical physics (9)

THIRD YEAR

Fundamentals of Electronics (12)
Interactive Graphic Systems for Mechanical Design (6)
Mechatronic Systems Design (6)

SMART PRODUCT curriculum

Electric drives (6)
Sustainable and Ergonomic Production Systems Project (6)
Principles of Business Economics and Organisation of Innovation (6)

FACTORY OF THE FUTURE curriculum

Fluid Machines (6)
Mechanical Systems (6)
Manufacturing Technologies (6)

Electives (12)
Internship (9)
Final examination (3)

PRESENTATION

In modern industrial design there is an ever-increasing demand for professionals able to combine their knowledge of industrial engineering with that of information. These professionals are required to solve issues involving the integration of mechanical and electronic systems with automated controlled systems used in modern mechanical, mechatronic and manufacturing industry. The degree programme is divided into two curricula: Smart Product e Factory of the Future.

PROGRAMME CONTENTS

This new role requires a multicultural training programme, in which the traditional skills of the degree programme of the Industrial Class integrate with the traditional skills of the programmes of the Information Class. The Degree Programme in Mechatronic Engineering provides graduates with an integrated set of skills in three major areas of engineering: (1) basic sciences and mathematical subjects, representing the essential tool to interpret, describe and resolve the engineering issues, (2) industrial engineering, with the skills required to design machinery, and (3) information engineering, teaching students how to integrate electronic and IT systems into mechanic systems.

From the third year, the programme divides into two curricula: one product-focused (Smart Product), and one company-focused (Factory of the Future). The distinguishing features of the two curricula are as follows:

- Smart product: the programme focuses on the issues of drives and static energy conversion, component monitoring, diagnostics and modelling and product development.
- Factory of the Future: focus on

business economics and innovation organisation, fluid-dynamic simulation and automated production systems.

JOB OPPORTUNITIES

Career opportunities are mainly in companies whose typical product is a mechanic device integrated by a control device or electronic controlled diagnostics (automated machinery, half-moving civil or industrial machinery, etc.) Graduates will be able to register in professional and trade associations in the industrial and information fields. Employment rates of graduates are excellent. According to statistics, one year after obtaining the degree, 100% of graduates in Mechatronic Engineering are employed or enrolled in further studies (Master's Degree).

The Degree in Mechatronic Engineering provides direct access to the Advanced Master Programme in Mechatronic Engineering of DISMI (Department of Sciences and Methods for Engineering) with no educational debts.

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Technologies for the Smart Industry

Facility: Via Amendola, 2 - Pav.

Buccola-Bisi

42122 Reggio Emilia

Duration: 3 years

Training Credits: 180

Degree Class: L-P03 Class of job-oriented bachelor's degrees in information and industrial technical professions

Required qualification:

Five-year high school diploma

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Mathematics for Engineering and Laboratory (4+2)

Body Physics (6)

Industrial Thermotechnology and Laboratory (2+4)

Applied Electronics and Laboratory (3+3)

Computer programming and laboratory (3+3)

3D CAD Design and Laboratory (3+3)

English (6)

Technical English (6)

Safety regulations

for the workplace and laboratory (3+3)

SECOND YEAR

Decision Support Systems and Laboratory (3+3)

Architectures and Programming of Industrial Controllers and Laboratory (3+3)

Fluid Automation and Laboratory (3+3)

Industrial Design Tools and Methods (6+3)

Second-year Internship (30)

THIRD YEAR

Internet of things and Laboratory (2+4)

Inverters and electrical machines for industry and laboratory (2+4)

Logistics and production systems and laboratory (3+3)

Collaborative Robotics and Laboratory (2+4)

Safety of production systems, machines and robots and Laboratory (2+4)

Third-year Internship (30)

Electives (6)

Final examination (3)

PRESENTATION

Better known as Industry 4.0, the fourth industrial revolution is a developing environment leading to the achievement of fully automated and interconnected industrial production processes. Such interconnection requires high-qualified trained technicians, with high-profile skills in the fields of mechanics, electronics, control, information technology and their mutual integration. These technicians must be able to work in corporate environments and professional associations, who in turns provide services and advice to the players of the production system, to face the challenge of the fourth industrial revolution.

PROGRAMME CONTENTS

The job-oriented degree programme in Technologies for the Smart Industry has therefore been fully designed to provide students with methods and techniques that help them address the challenges relating to the new technologies commonly used in smart factories of Industry 4.0. In fact, the training programme offered integrates the theoretical basic knowledge of engineering distinctive subjects with the practical development of such methodologies in laboratories, and their variations in corporate structures through training internships. The knowledge provided to students involves the disciplines of Electronics, Mechanics, Information Technology and Automation, which are sided by cross-cutting skills relating to modern technologies, and complex-problem solving, as well as fundamental skills in basic subjects such as Mathematics and Physics.

JOB OPPORTUNITIES

- Graduate technician in the techni-

cal office for the manufacturing of innovative machines and mechatronic systems: graduates may work in companies dealing with the machine and system manufacturing for different productive sectors. As graduate technicians, graduates will carry out design tasks in the technical office, with the purpose of improving the existing products. Specifically, you will be able to work in manufacturing companies in the mechanical, mechatronic and hydraulics sectors,

- Graduate technician in the technical department for the development of automation systems for the industry: graduates may work in companies that produce automation systems and services for industry, such as machines for industrial automation, systems for automated logistics, and systems for production control automation. Specifically, you will be able to work in manufacturing companies in the mechanical and mechatronic sector, logistics companies, and industrial automation companies,

- Graduate technician for the management of systems and services for smart industries: graduates may work as advisors in defining and managing complex systems that are typical of Industry 4.0 and innovative production systems. Specifically, you will be able to work within manufacturing and service companies, consulting firms, freelancers, - Freelance professionals registered in the Association of Graduate Industrial Technicians.

President of the Degree Programme

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Computer Engineering – Mantua

Facility: via Angelo Scarsellini 2,
46100 Mantua

Duration: 3 years

Training Credits: 180

Degree Class: L-8 Class of bachelor's degrees in information engineering

Required qualification:
Five-year high school diploma

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Fundamentals of Analysis (9)
Programming Fundamentals (9)
Computer Architecture (9)
English language (3)
Algebra and Geometry (6)
System Programming (9)
Physics (9)

SECOND YEAR

Numerical and Statistical Analysis (9)
Electronics Fundamentals (9)
Industrial Automation (9)
Energy Machines and Systems (9)
Databases (9)
Smart Design and Manufacturing (12)
Internet, Web and Cloud (9)

THIRD YEAR

Intelligent Internet of Things (9)
Machine Learning Fundamentals (9)
Logistics and Industrial Management (6)
Economy and Digital Enterprise (6)
An exam chosen from:
- Image Processing (6)
- Industrial Computer Science (6)
- Cyber-physical Security (6)
Electives (12)
Internship (9)
Final examination (3)

PRESENTATION

The Degree Programme in Computer Engineering takes graduates to a future filled with information technologies, which will increasingly need professionals capable of designing and managing systems and smart environments, hyper connected enterprises, and a society characterised by increasingly autonomous smart devices that will be soon launched in the market. Despite the growing demand for such skills by the job market, no degree programmes offer an in-depth vertical analysis of such themes. Therefore, the programmes represents a unique opportunity that will allow graduates to oversee the working environment of the coming decades and that will allow companies to adequately address the challenges of innovation posed by an increasingly competitive world of production on a global scale.

PROGRAMME CONTENTS

The study subjects graft onto basic engineering subject specificities of Computer Engineering with a prevalent orientation towards the design and development of software and IT services, the architectures of computers and IoT devices, systems and cloud platforms, artificial intelligence and machine learning, security by design of systems and industrial products. All these subjects involve a significant percentage of exercises and practical activities in multiple laboratory activities at the facilities available in the Mantua campus. The preparation is completed by subjects of Information Engineering integrated with those of Industrial Engineering such as industrial design, intelligent manufacturing, and industrial management to operate in modern production contexts that are increasingly automated and flexible.

JOB OPPORTUNITIES

You will become an IT Engineer with a training that will allow you to understand all IT aspects in its multiple sectors. You will be able to integrate directly into the job market, also thanks to the relations with the company in which you will have the opportunity to apply for a training internship. You can also complete the preparation by enrolling in the Master's Degree in Computer Engineering in Modena or in another national or international university. The IT pervasiveness in all sectors give our graduates the opportunity to find a job in multinational or regional IT companies, in international consultancy companies, in public administrations and in all national and international medium-large manufacturing companies. You will also be able to undertake an entrepreneurial activity, with just a few simple investments, such as an innovative start-up business in the technological sector.

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Master's Degrees*

(*) The activation of degree programmes is in any case subject to the successful conclusion of the ministerial accreditation process and updates, including study plans, will be available online at: www.unimore.it

Society and Culture

Master's degrees

Based in Modena

Data analysis for economy and management **L**
 Financial analysis, consulting and management **L**
 Anthropology and history of the contemporary world **L**
 Business management and consulting **L**
 Economics, public policy and sustainability **L**
 Philosophy **L**
 International Management **L EN**
 Languages for communication in international enterprises and organisations **P EN**
 Languages, Cultures, Communication **L**
 Labour relations **L B**

Based in Reggio Emilia

Economics and law for the sustainability of organisations **P**
 Management and business communication **P**
 Media Education for literary disciplines and publishing **L**
 Advertising, digital communication, and business creativity **P**
 Religions Histories Cultures **L**
 Pedagogy **P**
 Theories and methodologies of digital learning **L**

Health

Master's degrees

Based in Modena

Sport and Health **P**

Based in Reggio Emilia

Nursing and Midwifery Sciences **P**

Key

L · Unlimited access

P · Limited number of places

B · Course delivered in blended mode

B · Course delivered mainly in distance learning mode

EN · Course delivered in English

Science

Master's degrees

Based in Modena

Didactic and Communication of Sciences **L**
 Physics **L EN**
 Geosciences, geo-risks and georesources **L**
 Computer science **L**
 Mathematics **L**
 Quaternary, Prehistory and Archaeology **L**
 Chemical Sciences **L**

Life

Master's degrees

Based in Modena

Experimental and Applied Biology **P**
 Industrial Biotechnologies **L**
 Medical Biotechnologies **P**

Based in Reggio Emilia

Food Safety and Control **P**
 Food Safety and Food Risk Management **L EN**
 Integrated sustainability of agricultural systems **L**

Technology

Master's degrees

Based in Carpi

Sustainable Industrial Engineering **L EN**

Based in Modena

Artificial Intelligence Engineering **L EN**
 Electronic Engineering for Intelligent Vehicles **P EN**
 Advanced Automotive Engineering **P EN**
 Electric Vehicle Engineering **P EN**
 Electronics Engineering **L EN**
 Civil and Environmental Engineering **L**
 Materials Engineering **L**
 Vehicle Engineering **L**
 Computer Engineering **L**
 Mechanical Engineering **L**

Based in Reggio Emilia

Digital Automation Engineering **L EN**
 Management Engineering **L**
 Mechatronic Engineering **L**

Data Analysis for Economy and Management

Facility: Viale Berengario, 51
41121 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-56 Class of master's degrees in economics - LM-77 Class of master's degrees in economics and business sciences

Required qualification:
Bachelor's degree.

Access: Unlimited, subject to prior career verification on minimum grade and academic background requirements. Annual call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Academic activities of the Common path
Data analysis (9)

Quantitative methods and computer science (12)

Industrial economy and new markets (9)

Finance and markets (9)

Business metrics and data visualisation (9)

Statistical learning and predictive modelling (9)

SECOND YEAR

Teaching activities - Economics curriculum

Advanced macroeconomics (9)

Advanced microeconomics (6)

Digital Economy Law (6)

Digital business strategy (6)

A teaching activity chosen among the following:

- Economics and politics of sustainable development (6)
- Decision-making methods for economics and finance (6)
- Time-series econometrics (6)
- Macroeconomic policies (6)

Teaching activities - Management curriculum

Data driven human resource management (6)

Digital Economy Law (6)

Economics and policy of sustainable development (6)

Data driven marketing (9)

A teaching activity chosen among the following:

- Decision-making methods for economics and finance (6)
- Digital business strategy (6)
- Digital business modelling (6)
- Management lab (6)

Academic activities of the Common path

- Elective teaching activities (12)
- Final test (18)

PRESENTATION

The Master's Degree Programme aims to train an economist, politician and businessman with a solid quantitative education, skilled in the extraction, processing, visualisation and analysis of data of economic and business interest, as well as in the communication of results.

It was defined thanks to an intensive and fruitful consultation with interested parties: representatives of national and international economic institutions, the main economic associations in the local area, leading companies and associations at regional and national level in the financial, industrial, business consultancy, particularly in the fields of data analysis and ICT and personnel management, and services, coordinators of national and international doctorates.

The consultation made clear two strong motivations for the activation of the new degree programme:

- the existence of a growing demand for the training profile designed, both for companies that are already digital and those that intend to become digital,
- the importance of developing skills in data analysis and its interpretation from a strategic perspective in order to understand the business value of the information in the data, also in relation to the ability to govern business processes.

PROGRAMME CONTENTS

The degree programme is an inter-class degree in LM56 (Economics) and LM77 (Economics and Business Sciences).

The structure of the programme comprises two curricula, Economics and Management, with a broad base of common subjects that

provide solid computer, statistical and econometric skills, advanced knowledge of industrial, business and financial economics, and legal content relating to current legislation on the use and processing of data.

The economics curriculum complements the training with advanced skills in economic and financial theory and, in particular, macroeconomics, microeconomics, economic policy and quantitative finance.

The management curriculum complements the training with domain expertise in the areas of marketing, human resources management and business management in general, with a focus on aspects related to the use of data for business decisions.

The teaching methodology includes individual and group projects, also carried out at external companies and/or institutions, with a final presentation of the results, the involvement of company managers, teaching material or lectures in English.

JOB OPPORTUNITIES

There are two professional profiles:

- Data Analyst for economic and financial institutions,
- Expert in data-driven business processes.

The first profile offers job opportunities in economic and financial institutions, public and private study centres, public administration, national and international organisations (e.g. ISTAT, Eurostat, OECD, Bank of Italy, ECB, IMF), statistical and research offices of local authorities and companies in the private sector.

The skills acquired are a prerequisite for further studies in PhD pro-

grammes in economics, both Italian and foreign.

The second profile offers job opportunities in digital-native companies or companies affected by data-driven innovation or transformation processes, related business consulting activities.

The skills acquired allow for the continuation of studies in PhD programmes in management.

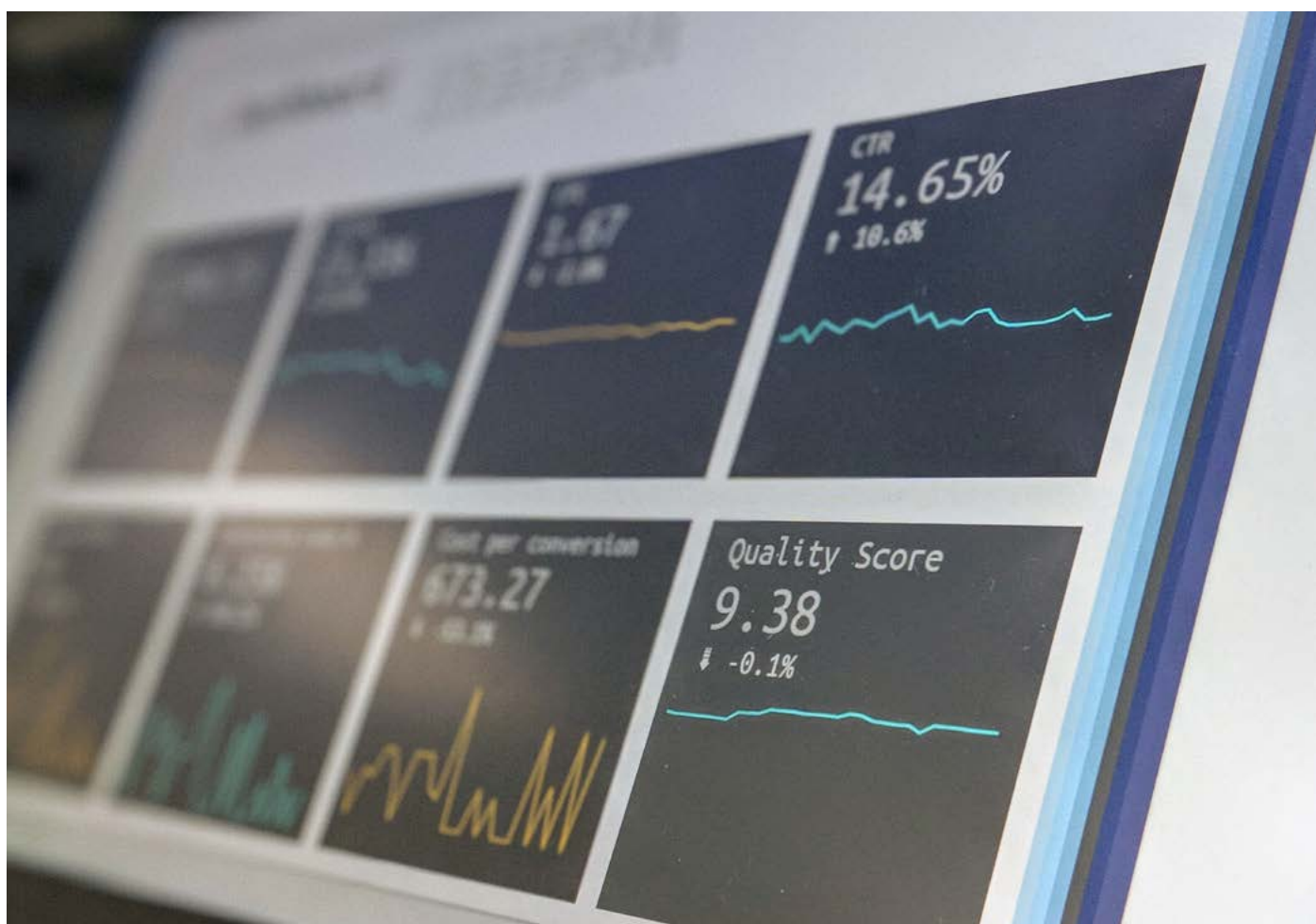
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www.economia.unimore.it/site/home/didattica/corsi-di-laurea-magistrale/analisi-dei-dati-per-leconomia-e-il-management.html



Financial Analysis, Consulting and Management

Facility: Viale Berengario, 51
41121 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-16 Class of master's degrees in finance - LM-77 Class of master's degrees in economics and business sciences

Required qualification:
Bachelor's degree.

Access: Unlimited, subject to prior career verification on minimum grade and academic background requirements. Annual call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Bank management (6)
Financial markets law (6)
Institutions and financial markets (6)
Quantitative methods for finance (10)
Corporate financial policies (9)
Risk management (9)
Macro-financial scenarios (9)
Corporate and Financial
Taxation (6)

SECOND YEAR

Complements of risk management (5)
Corporate and investment banking (6)

An exam to be chosen among the following:

- Financial analysis (12)
- Financial management (12)

Elective learning activities (12)

Final test (24)

PRESENTATION

The Degree Programme in Financial Analysis, Consulting and Management is aimed at training master graduates to carry out highly professional roles in the fields of credit companies management, corporate financial management, analysis, consulting and portfolio management, and risk measurement and coverage at intermediaries, private and public institutions, and research centres.

PROGRAMME CONTENTS

The Degree is an interclass programme, LM-16 Finance and LM-77 Economic and Business Sciences. Students choose the class when enrolling in the second year, after getting to know their preferences of their areas of interest during the first year, based on the job opportunities desired and/or the higher-level training programmes. Students may take the state examination for qualified accountant (if LM-77) or actuary (if LM-16). The Degree Programme structure provides for a first year in common with courses of mathematics and geometry, risk management (in English), macro-finance scenarios, taxation of enterprises and of financial activities, financial markets and institutions, financial market law, bank management, corporate financial policies; a second year with two courses in advanced risk management and in corporate and investment banking, and the choice between a course on topics of financial analysis - with two modules in portfolio management and business valuation - and one of financial management - with two modules on bank balance sheets and performance indicators, and private banking, extraordinary finance, insurance companies.

JOB OPPORTUNITIES

The expected job opportunities are: highly qualified positions in the areas of credit, risk management, banking and financial regulation and supervision at banks, insurance companies, auditing firms; highly qualified positions in corporate and private banking and corporate finance; analyst and portfolio manager at banks, asset management companies, insurance companies; financial advisor; analyst in financial institutions and trade associations, public and private research centres; expert in communication and training on economic-financial issues. Some of the actual job opportunities of recent graduates of the Programme: Italian and foreign banks (including BPER Banca, CREDEM, Intesa, Unicredit, Cariparma, Credit Agricole, BNP, Illimity), banking services companies, financial consulting companies (including Prometeia, SCS, CRIF), non-financial companies (including FCA, CNH, Panini, AVIS, Max Mara, Emak, Bonfiglioli, Voilà Digital), insurance companies (including SACE, Assicurazioni generali, Unipol, CredemVita), Italian and foreign investment companies (Brevan Howard, Optima, Pharos, Prometheus), auditing firms (including Deloitte, Ernst&Young, PwC), national and foreign institutions (including Banca d'Italia, ECB). Graduates in Financial Analysis, Consulting, and Management are also registered in the Orders of Chartered Accountant, Accountant, Actuary.

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Master's degrees / Society and culture

Anthropology and History of the Contemporary World

Facility: largo Sant'Eufemia, 19
41121 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-1 Class of master's degrees in cultural anthropology and ethnology LM-84 Class of master's degrees in historical sciences

Required qualification:

Bachelor's degree

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Political history of modern Europe (12)

Social History of the Contemporary World (12)

Political Anthropology (9)

Anthropology of the Contemporary World (6)

History and theories of anthropology (9)

Sociology of conflicts (6)

Cultures and history of Islamic countries (6)

SECOND YEAR

Teaching and digital sources for history (6)

Philosophies of human nature: philosophical anthropology module + history of ideas module (12)

Option (9) between:

- Economic anthropology
- Ethnography

Option (9) between:

- Nations and nationalisms
- History of social and political movements

Electives (9+2)

Thesis (13)

PRESENTATION

Anthropology and history of the contemporary world is a unique interclass Master's Degree Programme. It gives students the opportunity to get a master's degree choosing between two options: Cultural Anthropology and Ethnology, and Historical Sciences. As an interclass study programme, students are provided with a common interdisciplinary base of knowledge on concepts, models and methodologies applied to contemporary social sciences.

PROGRAMME CONTENTS

Students will be able to acquire the proper evaluation tools that will enable them to assess current issues with a comparative historical perspective, open to the whole range of human behaviours. The programme main objective is to provide adequate tools and methods for understanding the complexity of the contemporary world and for analysing the conflicts between cultures that characterise it, following the perspectives of historiographical, ethnological and anthropological approach, along with the other human sciences: philosophy, sociology, and Islamic studies. The interdisciplinary approach allows students to better interpret this age of economic globalisation, migration processes, increasing intercommunication, racism, and new gender relations.

JOB OPPORTUNITIES

Graduates will find employment in international and non-governmental organisations, in the fields of humanitarian aid and cooperation and development. Other opportunities can be found in publishing companies for scientific advertising and publications. They can pursue a professional career in cultural and

research institutions, in social volunteer associations and in cultural tourism. Specialisation in the history field can give access to jobs in the public administration, museums, archives and libraries; specialisation in anthropology facilitates access to institutions that are dedicated to the phenomenon of migration, cultural mediation, social problems. Students will be able to continue their studies through advanced master programmes dedicated to anthropological and historical studies - including the particularly innovative one in Public & digital history, launched in 2015-16 in the DSLC - and in PhD schools. The programme also enables the acquisition of credits that, with possible additions, allow access to training internships and participation in selections for the teaching qualification in the history of philosophy.

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General Management and Consulting

Facility: Viale Berengario, 51
41121 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-77 Class of master's degrees in economics and business sciences

Required qualification:
Bachelor's degree

Access: Unlimited, subject to prior career verification on minimum grade and academic background requirements. Annual call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Advanced management budget analysis and control (9)
Statutory financial statements and IAS/IFRS (9)
Company law (6)
Tax Law (advanced) (9)
Industrial economics (12)
Project management (6)

Statistical learning and prediction from data (6)

SECOND YEAR

Strategic analysis and business plan (9)
Corporate financial decisions (6)

An exam to be chosen among the following:

- Extraordinary business transactions (6)
- Sustainable business development strategy (6)

An exam to be chosen among the following:

- Business intelligence (6)
- Business crisis law (6)
- Advanced marketing (6)
- Public management (Public accounting) (6)
- Public management (Economics of public companies) (6)
- Company audit (6)
- Company evaluation (6)

Elective learning activities (12)
Internship/English language (6)

Final examination (18)

PRESENTATION

The Master's Degree Programme in General Management and Consulting has been designed both for those who aspire to become entrepreneurs or access industrial, commercial and service enterprises, reaching positions of general management or functional management (in particular Administration and Control and Information Systems), both for those who are more interested in a career in business/economic and legal-tax consulting to public and private companies. The programme has been designed by promoting the confrontation with companies, business associations and professional associations and is renewed on the basis of a continuous dialogue in order to ensure a strong cultural training path, in line with the demands of the job market as well as various opportunities for contact between students, companies, auditing firms and professional studies. Access information and the call for applications are available on the Department website.

PROGRAMME CONTENTS

The Degree Programme includes some teachings aimed at developing solid skills in the fields of budget, administration, management control and business planning, accompanied by courses that develop knowledge in data analysis, analysis of industrial sectors, of finance, corporate organisation, corporate and tax law. Those who are more interested in a managerial career can further explore the study of business functions and develop the understanding of strategic choices. Those who are interested in working as self-employed professionals can choose between legal, accounting, administrative and management (extraordinary business operations,

company evaluations, audit, etc.). The Degree Programme facilitates the practice of the acquired knowledge through case studies, practical exercises, presentation of individual and group works.

JOB OPPORTUNITIES

In large companies, graduates in General Management and Consulting may take on the various corporate functions and roles where cross-functional knowledge, international openness, attitude to change are required, as well as roles of assistance to the general management. In small and medium-sized enterprises, they may hold managerial or executive roles. In corporate consulting companies, traditionally they may be employed as junior analyst, business analyst, assistant consultant. Other job opportunities may be as follows: self-employed chartered accountant, business audit, administrative management of companies and public administrations, economic and legal advice.

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www.economia.unimore.it/site/home/didattica/corsi-di-laurea-magistrale/direzione-e-consulenza-dimpresa.html

Economics, Public Policy and Sustainability

Facility: Viale Berengario, 51
41121 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-56 Class of master's degrees in economics

Required qualification:
Bachelor's degree.

Access: Unlimited, subject to prior career verification on minimum grade and academic background requirements. Annual call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Analysis of public policies (12)

Data Management (12)

Administrative law and territorial autonomy (6)

Local and global development (6)

Economics and health policies (9)

6 ECTS credits chosen among the following teachings:

- Local welfare governance (6)
- Policy planning and funding (6)
- History of institutions and regional development (6)

One elective teaching (6)

SECOND YEAR

Economics and policy of sustainable development (6)

Public management (12)

Methods for policy impact evaluation (9)

12 ECTS credits chosen among the following teachings:

- Economics and digital innovation policies (6)
- Performance, digitisation, and inclusion (6)
- Sustainability Reporting (6)
- Formation and evaluation of laws (6)

One elective teaching (6)

Final examination (18)

PRESENTATION

The Master's degree programme in Economics, Public Policy and Sustainability (EPPS) aims to train experts capable of designing, implementing, monitoring and evaluating public policies and defining management strategies in compliance with economic, social and environmental sustainability objectives. The programme responds to the need to formulate programmes to regulate and support the economic development of companies and territories with the aim of improving the future of the next generations.

The training profile combines multidisciplinary skills in economic, business, legal and data analysis. Graduates can take on decision-making roles of significant responsibility in various fields of work, in the public, private and third sectors. The link with the labour market is facilitated by the possibility of internships with national and international research institutions, local administrations, companies and third sector organisations, and by the possibility of following an educational pathway that prepares and enhances critical thinking and the development of soft skills (including team work and problem solving), included in some teachings that also make use of innovative teaching methods.

PROGRAMME CONTENTS

The curriculum focuses on the analysis of public policies and economic-quantitative techniques for evaluating their effects, also considering their implementation from a legal-administrative, management and human resources organisation perspective. Teachings are planned to develop skills in the following areas: design and analysis of public policies at regional, national and supranational level, monitoring and evaluation of investments by busi-

nesses and PA, data analysis for the study of economic and business scenarios, public accounting and sustainability reporting, strategies for business management and relations between businesses and the territory, administrative law, innovation and evaluation of new organisational models for managing diversity and inclusion in businesses and PA.

JOB OPPORTUNITIES

Graduates can hold management/management positions in the public, private or third sector or can work in consultancy as: applied economist, management and control specialist, specialist in the acquisition and/or marketing of goods and services, economic systems specialist, business economics specialist, market analyst. These professionals will be able to find employment in: European and national institutions, companies and public bodies, trade unions, business associations, non-profit organisations, cooperatives, chambers of commerce, companies and financial institutions dealing with the public administration, public and private research centres, think tanks, evaluation agencies, national and international organisations, statistical and research offices, consultancy firms.

President of the Degree Programme

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www.economia.unimore.it/site/home/didattica/corsi-di-laurea-magistrale/economia-politiche-pubbliche-sostenibilita.html

Philosophy

Facility: University of Parma
Modena campus: Corso Canal Grande, 45
Duration: 2 years
Training Credits: 120
Degree Class: LM-78 Class of master's degrees in philosophical sciences

Required qualification:

Bachelor's degree

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

Students can compose their study plan by distributing the subjects over the first and second years, within the educational offerings of three universities. Here, by way of example, we report only the first group of philosophical teachings within which students may select 30 ECTS credits; other historical philosophical, humanistic and linguistic teachings follow from which they can choose the remaining credits.

PHILOSOPHY AND HISTORY OF IDEAS

3 electives to be chosen from:

Classical German philosophy (PR)
Philosophy and History of "moral psychology" (PR)
History of Philosophy (PR)
History of contemporary philosophy (PR)
History and models of the transcendental (FE)
History of ideas (MO-RE)
History of modern philosophy (MO-RE)
History of Ancient Philosophy (FE)
Philosophical Anthropology of the Middle Ages and Renaissance (FE)
History of Medieval Christian Philosophy (PR)
Ancient and Medieval Logic and Semantics (PR)
History of the Philosophical text (PR)

MIND, ACTION, AND LANGUAGE

2 electives to be chosen from:

Hermeneutics (FE)
Theoretical Philosophy and Action Theory (MO-RE)
Logics and grammar (PR)
Philosophy of psychology (PR)
Philosophy of language (PR)
Language and knowledge (MO-RE)
Philosophy of Mind (PR)
Semiotics (FE)

For the complete study plan, see the website of the Degree programme in Philosophy: <https://cdlm-filo.unipr.it/it>

PRESENTATION

The purpose of the interuniversity Master's Degree Programme in Philosophy is to provide an in-depth knowledge of the philosophical tradition in its specific methodologies developed in the various historical and philosophical, theoretical, analytical, ethical-political, and aesthetical approaches. In order to ensure access to lectures and other teaching activities offered by each university, remote courses are also provided.

PROGRAMME CONTENTS

The programme is aimed at providing students with the language and philological skills required to understand the original texts, the essential conceptual tools of philosophical argumentation, the main concepts required to read the classics of philosophy. The specialist teachings in philosophy will pay particular attention to the development of analytical and logical-argumentative skills related to the different forms of knowledge and language, the historical-critical analysis skills of the fundamental concepts of theoretical, ethical, legal-political, and aesthetical thought.

The final test consists of the discussion of a written paper discussed in Italian or English, on a topic agreed with a professor of the degree programme.

The programme contents and professors' personal webpages are available on the website: www.filosofia.unipr.it.

JOB OPPORTUNITIES

The degree programme trains students to perform professional activities in all fields that require accurate analysis abilities and independent judgement, in particular: in various

fields of the cultural consulting activity, in the fields promoting and assisting the relationships between the different traditions, in design and management activities of professional training courses in public institutions or private companies, in the publishing sector, and in political cultural activities within the public administration.

Graduates in philosophy may access Advanced Master Programmes (2nd level), PhD programmes in philosophy and other similar programmes, and PhD schools. Ultimately, they will be qualified to teach in schools, after completing the teaching qualification programme under the applicable legislation.

President of the Degree Programme

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1. <https://corsi.unipr.it/it/cdlm-filo>

2. <http://www.dslc.unimore.it/site/home/didattica/corsi-di-laurea-magistrale/filosofia-interateneo.html>

Master's degrees / Society and culture

International Management

The programme is taught entirely in English Double degree with the University of Bochum (Germany).

Facility: Viale Berengario, 51
41121 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-77 Class of master's degrees in economics and business sciences

Required qualification: Bachelor's degree.

Access: Unlimited, subject to prior career verification on minimum grade and academic background requirements. Annual call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Elementary applied econometrics for international economics (9)
Industrial economics and digital platforms (6)
Internationalisation strategies (9)
Organisational forms and design (9)
Statistical learning and prediction from data (6)
Strategy and innovation (9)

One examination to be selected from:

- Chinese (9)
- English (advanced) (9)

SECOND YEAR

Business intelligence (6)
International contract and business law (6)
Managing B2B relationships in industrial markets (6)
Trade marketing and sales management (9)

Examination chosen by the student (9)

Final examination (27)

PRESENTATION

The Degree Programme in International Management meets the growing demand coming from the world of enterprises and institutions for master graduates able to take on operational and managerial roles in the internationalisation processes of companies, bodies, and institutions.

The deep changes taking place in international markets and the increasing competition require a renewed ability for the human resources of companies and institutions to analyse international markets, use a wide range of managerial, organisational, legal, commercial/marketing policy management tools, as well as a strong communication ability in foreign languages.

Lectures are provided entirely in English.

Access is governed by a call for applications published yearly. Certified knowledge of the English language is required, at least of B2 level of the Common European Framework of Reference. The presence of international students makes the programme a stimulating multi-cultural experience.

PROGRAMME CONTENTS

The Degree Programme is divided into various study areas. The first one is based on the methodologies of analysis of the international markets (collection and analysis of macro-economic data) and on the strategies and business management tools in the internationalisation processes. The second focuses on marketing with specific reference to innovation policies, channel/customer management and sales networks in foreign markets. The third one deals with the issues of managing and organising enterprise networks, which consist in practices of outsourcing, forms of

partnership, innovation processes. The analysis of the industrial structure and manufacturing systems with their processes of change are a further thematic area. Foreign languages are studied throughout the entire programme. The teaching methods used encourage a high interaction between teachers and students, and the development of soft skills: in addition to the lectures of the professor, the following activities are encouraged: intervention of business operators, organisation of visits in the company, cross-cultural meetings, seminar activities, project work carried out in teams of students and business challenges. The programme also promotes the opportunity for periods of study or research abroad, even by carrying out internships in companies.

JOB OPPORTUNITIES

The programme enables graduates to take on managerial/operational roles in commercial/marketing functions (sales manager, key account, etc.), which are fundamental in the internationalisation processes of companies. Graduates will be able to carry out analyst activities of international markets and country systems in public and private institutions, both national and international. Areas of action may be as follows: strategic planning in entering the international markets, sales management on foreign markets.

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www.economia.unimore.it/site/home/didattica/corsi-di-laurea-magistrale/international-management.html

Master's degrees / Society and culture

Languages for Communication in International Enterprises and Organisations

The programme is taught entirely in English

Facility: Largo Sant'Eufemia, 19
41121 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-38 Class of master's degrees in modern languages for international communication and cooperation

Required qualification:

Bachelor's degree

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Intercultural communication and language variation - English language (12)

Intercultural communication and language variation - French/German/Spanish language (12)

Introduction to European and international law or Comparative business law or (Digital communication and human rights (6)

Introduction to international economics (9)

Linguistic strategies and digital tools for institutional communication or Professional communication and digital discourse or Digital humanities (6)

Credits for elective teachings (9) (Advanced Chinese language or Advanced Russian language or any teachings offered by the Department)

SECOND YEAR

English specialised communication and translation (9)

French/German/Spanish specialised communication and translation (9)

International commercial law (6)

Internationalisation strategies or Marketing and digital communication (6)

Economic development and sustainability (6)

Other activities (internship, further language competences) (8)

Dissertation (16)

PRESENTATION

Languages for communication in international enterprises and organizations. The name of the programme is in English because all subjects are taught in English. The teaching of linguistic strategies and digital tools for institutional communication is an exception, which is delivered in Italian as it focuses on Italian for institutional communication, and foreign languages (always taught in the studied language). In addition to the well-established two-year teaching of two languages (chosen among English, French, German, and Spanish), this innovative programme gives the opportunity to study a third language, chosen between Chinese and Russian. Equal importance is given to the legal-economic area.

PROGRAMME CONTENTS

In addition to the two-year study of two languages (chosen among English, French, German, and Spanish) the programme gives the opportunity to study a third language to be chosen between Chinese and Russian. The same importance is given to the legal-economic area, which - in addition to Introduction to European and international law and Introduction to international economics - also offers courses of Internationalisation strategies, Marketing and digital communication, Economic development and sustainability, International commercial law, Comparative business law, and Digital communication and human rights.

JOB OPPORTUNITIES

Master graduates will rely on all-round communication skills that include knowledge in the economic-legal field (business know-how) and language skills in English,

French, German, Spanish, and also Chinese and Russian. Internships provide students with real life experience of what they have studied during the course, and in many cases also offer the basis for contextualisation of the experience within a theoretical framework, thanks to the thesis, and for subsequent work opportunities in the company where the internship is conducted. Master graduates will be able to hold positions of responsibility in businesses working internationally, as well as in local, national and international organisations.

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Languages, Cultures, Communication

Facility: largo Sant'Eufemia, 19
41121 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-37 Class of master's degrees in European and American modern languages and literatures

Required qualification:

Bachelor's degree

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

English language (Text types and editorial translation) (12)

French, Spanish or German language (Text types and editorial translation) (12)

Italian Literature (6)

Cultural Design and Transmedial Products (6)

A compulsory choice of foreign literature for each of the two languages studied between (6 + 6):

English Literature, English Literature, History of English Drama, French Literature, Spanish Literature, Modern and Contemporary Spanish Literature, German Literature, Modern and Contemporary German Literature.

One teaching activity chosen from (6): Conversation Analysis and Translation Theories

Electives (12)

SECOND YEAR

English language and digital tools for translation (6)

French, Spanish or German language and digital tools for translation (6)

One teaching activity chosen from (9): Language teaching (9) and Literature, writing and theatre criticism (9)

Two teachings to be chosen from the following (9): Social history of art (9), Aesthetics of cinema (9) and History of musical theatre (9)

Additional training activities: internship / additional language skills / structured activities (6)

Final examination (9)

PRESENTATION

The programme combines expertise and skills in the language, literary, and cultural fields gained in the two universities of Modena-Reggio Emilia and Parma. It is intended for students with medium-advanced language skills who are interested in improving them and applying them to cultural activity fields. Main focus is given to the theory and practice of translation, with reference to both literary and publishing texts.

PROGRAMME CONTENTS

The programme focuses on two specific areas: first of all foreign languages, in which students are expected to achieve advanced proficiency in both languages studied. In addition to the lectures focusing on intercultural communication, study of linguistic and textual varieties, and translation activities, language teaching is also supported by laboratories run by mother-tongue language teachers. The programme also includes the study of the literature and culture of the two selected languages. Students will also gain specific skills in the field of cultural disciplines, as well as in sociological, linguistic, or literary disciplines.

JOB OPPORTUNITIES

Graduates will be able to work in the cultural industry and in cultural institutions, in organisations for the protection and valorisation of the cultural heritage, in services for the management and development of entertainment and cultural events. The programme mainly prepares students to professional activities such as translator, language consultant and expert in cultural institutions or in the entertainment industry, collaborator in the design, dissemination, and valorisation of cultural events and activities. The

Degree Programme in Languages, Cultures, Communication enables students to obtain the requirements needed to access the language teaching qualification courses.

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Master's degrees / Society and culture

Labour Relations

The Programme is provided in mixed mode.

Facility: Viale Berengario, 51
41121 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-77 Class of master's degrees in economics and business sciences

Required qualification:
Bachelor's degree.

Access: Unlimited, subject to prior career verification on minimum grade and academic background requirements. Annual call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Data analysis (6)
Industrial relations law (12)
Human resource law (9)
Human resource management (9)
Human Resource Information Systems e
Data Science (6)
Organisation of labour relations (9)

Elective learning activities (9)

SECOND YEAR

Communication and change management (6)
Advanced labour law (12)
Public law of economics (6)
Labour and industrial economy (12)
History of labour (6)

Final examination (18)

PRESENTATION

The programme is unique in the national academic scenario, thanks to its approach to labour relations combining legal, economic, organisational, and management subjects. The interdisciplinary approach ensures the acquisition of soft skills that help enter the labour market by widening the range of possibilities. The close coordination with Marco Biagi university Foundation offers several opportunities, by promoting the integration of students into the labour market thanks to a network of national and international relations, as well as relations with the entrepreneurial world. The Programme is provided with mixed teaching activities: e-learning activities are provided for a significant number of training activities, in any case not exceeding the two thirds of total activities. For detailed information, please visit the dedicated website: www.blended.unimore.it. Access information and the call for applications are available on the Department website (www.economia.unimore.it).

PROGRAMME CONTENTS

The degree programme is conceptually divided into two parallel curricula: First, it provides basic professional skills relating to data analysis, labour and industrial economics, labour history, public economic law, work organisation and human resources law.

In addition, the programme provides professional skills, specific and applied, in the field of personnel information systems, advanced labour law and industrial relations, human resources management, communication and management of organisational change.

JOB OPPORTUNITIES

Graduates in Labour Relations are able to cover managerial/executive roles and deal with the different aspects of employment relations within public or private organisations, with particular reference to the various types of contract, industrial relations, selection, management and development of human resources, work and business organisation, risk prevention, management and organisation of safety, job counselling and active labour market policies. The professional roles of reference are found in the human resources management function of manufacturing or service companies, in management and executive function in consulting companies, in the profession of employment consultant (after completion of the practice and after passing the State examination, of qualification to exercise the professional activity), in trade union and trade associations, in agencies for personnel recruiting and selection or employment administration.

President of the Degree Programme

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Economics and Law for the Sustainability of Organisations

Facility: Viale Antonio Allegri, 9
42121 Reggio Emilia

Duration: 2 years

Training Credits: 120

Degree Class: LM-77 Class of master's degrees in economics and business sciences LM-63 Class of master's degrees in sciences of public administrations

Required qualification:

Bachelor's degree

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Banking law for sustainability (6)
Environmental economics and sustainable development (12)
Business ethics and sustainable development (9)
Statistic models for business decisions (9)
Sociology of welfare (9)
Electives (9)

Curriculum: Businesses and sustainability

Commercial law (9)
Labour, market and welfare (6)

Curriculum: Sustainability in public organisations

Administrative Law (9)
Labour and human resources in public administrations (6)

SECOND YEAR

Environmental and energy law (6)
Internship - Other activities (9)
Final examination (12)

Curriculum: Businesses and sustainability

Finance for sustainability (6)
Governance, sustainability, and business models (12)
Human resources and sustainable growth (6)

Curriculum: Sustainability in public organisations

Sustainability budgeting and reporting (6)
Accounting and cost analysis in public administrations (9)

Financial sciences and welfare systems (9)

PRESENTATION

The Master's Degree Programme in Economics and Law for the Sustainability of Organisations aims to train young managers and administrators to work in profit and non-profit contexts according to the principles of economic-managerial, environmental and social sustainability. With this main objective in mind, it was deemed appropriate to set up an interdisciplinary itinerary (legal, economic, administrative, sociological and statistical) that could contribute to a comprehensive understanding of the issues related to sustainable innovation, development and growth, thus providing, alongside specialised knowledge and methodologies, the tools to support a coherent cultural attitude.

PROGRAMME CONTENTS

The training programme is developed along mutually complementary directions, through the acquisition of the following skills and knowledge: economic skills for strategic management, analysis of human resources management models, legal skills for full adherence to ESG principles (environmental, social and governance sustainability), environmental political economy, sociological studies and statistical methodologies to produce and read reporting tools. The training activities include two curricula: "Business and Sustainability" and "Sustainability in Public Organisations". The former integrates basic knowledge with the economic and legal skills essential to operate in private businesses and organisations. Whilst the second one explores the knowledge required to carry out managerial roles in public administration. Classroom teaching activities are enriched by the possibility of accessing the registration of

lessons after their delivery, through the services of ONELab; the service also provides for the availability of an online receiving time to supplement the face-to-face one.

JOB OPPORTUNITIES

Graduates in economics and law for the sustainability of organisations will be able to play a responsible role in general and legal management, coordination in planning and management control, auditing and review activities. The programme allows students to enter the world of work as a manager in companies in the industrial and service sectors, as freelancers, experts and consultants, as managers in public administrations. If you choose to graduate in the LM-77 class, the programme allows you to enrol in the register of practicing chartered accountants.

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Management and Business Communication

Facility: Viale Antonio Allegri, 9
42121 Reggio Emilia

Duration: 2 years

Training Credits: 120

Degree Class: LM-77 Class of master's degrees in economics and business sciences

Required qualification:
Bachelor's degree

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Statistical Data Analysis for Market Research (9)

Business planning and strategic control (6)

Market economics law (9)

Electives (9)

Curriculum: Communication and Business Image

Strategic Analysis for Marketing Positioning (6)

Organisation of labour relations (6)

Financial Communication Management (12)

Applied psychology (12)

Curriculum: General Management

Strategic analysis for competitive positioning (6)

Human Resource Management (6)

Psychology of Persuasion (6)

Financial instruments and markets (12)

SECOND YEAR

Internship - other activities (6)

Final examination (12)

Curriculum: Communication and Business Image

Advertising communication and brand image (6)

Organisation and management of culture and creativity (6)

Business communication planning (9)

History of consumption and marketing models (12)

Curriculum: General Management

Financial statements and reporting templates (9)

Finance for growth (6)

Sustainability strategy and management (6)

Economic and Competitive Scenarios (12)

Data collection techniques (6)

PRESENTATION

This Master's degree programme trains students to take on managerial and strategic coordination roles in companies, as well as to innovatively design the external and internal communication of public and private organisations. The training programme explores organisational, market, economic and financial, legal and institutional contents and tools aimed at developing modern professionals, skilled to enter different working contexts.

PROGRAMME CONTENTS

The analysis of business competitive positioning, the preparation of a business plan, the management of financial communication, the organisation of job relationships, the examination of the regulations that govern the economic measures and the statistic tools for market analysis are all part of the basic training of the first year. The degree programme also gives the opportunity to choose between two curricula: "General management" and "Business communication and image". The first one provides deep knowledge on business management and on the operation of the markets, the tools and the financial institutions. The second one provides deep knowledge for designing communication campaigns, organising events, managing the image and the identity of the brand, and drawing up integrated communication plans. Classroom teaching activities are enriched by the possibility of accessing the registration of lessons after their delivery, through the services of ONELab; the service also provides for the availability of an online receiving time to supplement the face-to-face one.

JOB OPPORTUNITIES

The professional profile of graduates in Management and business communication is suitable to cover roles of responsibility in the marketing and communication fields. Graduates will be able to apply for roles as human resources experts, managers of internal and external economic-financial communication of businesses and credit institutions, also as investor relations in listed companies; experts in trading goods and services, skilled to define and implement a strategic and marketing plan; market analysts, as they are skilled to use the tools for monitoring the markets; experts in public relations, analysis and design of business image.

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Master's degrees / Society and culture

Media Education for Literary Disciplines and Publishing

Available in blended mode

Facility: Viale Timavo 93

42121 Reggio Emilia

Duration: 2 years

Training Credits: 120

Degree Class: LM-43 Class of master's degrees in computer methodologies for humanities

Required qualification:

Bachelor's degree.

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Examinations common to the 2 curricula:

Fundamentals of information technology

(6) +

Web Environment Design (9)

Narrative Communication (9)

Contemporary Italian literature (6) +

New media and youth literature (6)

Developmental and educational psychology (9)

English language (6)

Electives (9)

Optional teaching

Text technologies (9)

SECOND YEAR

Examinations common to the 2 curricula:

Digital technology law and civic education

(6) +

Argumentative logic of public opinion (4)

Text mining (9)

Arts Theory (4)

Other elective activities (2): Internship /

Educational Robotics Laboratory / Digital

Fabrication Laboratory

Final examination (11)

Curriculum: Media Education for Literary Disciplines in Secondary School

Visual History (6)

Didactics of Media Education (6)

Distance learning (6) + Applied linguistics (6)

Curriculum: Digital Technologies for Publishing, Cultural Heritage, and Edutainment

Pedagogy of digital publishing (6)

Digital Publishing (6)

Visual storytelling for cultural heritage (6) +

History of alterity (6)

PRESENTATION

The degree programme in Media Education in humanities and publishing is a Master's cross programme, offered in mixed mode, and designed to value the increasing interconnection between humanities disciplines and digital technologies.

The degree programme is mainly addressed to students with a background in humanities and willing to acquire skills relating to the use of digital resources and tools in support of: (i) teaching; (ii) publishing; (iii) communication of cultural heritage.

The training offer is based on a common programme and is divided into two different curricula.

PROGRAMME CONTENTS

In their training, graduates acquire transversal knowledge in different subject areas, specifically:

- IT,
- languages and literatures,
- history, law, arts, and philosophy,
- anthropo-psycho-pedagogy and teaching methodologies and technologies.

The training offer also includes workshops and internship.

JOB OPPORTUNITIES

The Master's Degree Programme prepares you for the world of work as:

- teachers of literary disciplines in lower and upper secondary schools (as required by current legislation, graduates who will have earned sufficient credits in appropriate disciplinary sectors will be able to participate in the admission tests for training courses for teaching);
- scholars, consultants, and coordinators who collaborate with the entire staff of the school (digital animator), or bodies activated by

the Public Administration and the private sector, for the use of digital methodological solutions;

- experts in electronic publishing and edutainment,
- expert in digital management of cultural resources.

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Advertising, Digital Communication, and Business Creativity

Facility: Viale Antonio Allegri, 9
42121 Reggio Emilia

Duration: 2 years

Training Credits: 120

Degree Class: LM-59 Class of master's degrees in public communication, business and advertising sciences

Required qualification:

Bachelor's degree

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Advertising communication and brand image (9)

English language C (6)

Psychology of Persuasion (6)

Communication Theories (9)

Language variation (6)

Web Data Science (6)

A compulsory teaching between:

Organisation and creative processes (6)

Sociology of Consumption (6)

Sociosemiotics and Cultural Studies (6)

SECOND YEAR

Social media and multimedia communication (9)

Data collection and analysis techniques (12)

Two compulsory teachings between:

Advertising strategies and creative advertising (6)

Editorial plans for digital communication (6)

Semiotics of advertising (6)

A compulsory teaching between:

Communication of creative businesses (6)

Content laboratory for the web (6)

Intermedia languages (6)

Electives (12)

Internship - other activities (6)

Final examination (15)

PRESENTATION

The degree programme in Advertising, Digital Communication and Corporate Creativity aims to train specialists in the coordination and management of innovation processes involving internal and external corporate communication and experts in digital, advertising and multimedia communication.

PROGRAMME CONTENTS

The training programme includes the acquisition of advanced psychological, linguistic, semiotic, sociological, data analysis and business communication skills. These skills are necessary for the deepening of professional skills related to a) strategic models of brand communication and advertising; b) the use of the network, with the aim of building capacities related to the potential of new media; c) creation of specific languages for multimedia communication; d) emerging managerial models for communication management, which envisages the use of innovative languages and contents.

The teaching activity will be organised with lectures always integrated with exercises and seminars. The learning outcomes will be verified with written tests and oral interviews, supported by the evaluation of project work carried out individually or in groups and by the classroom discussion of case studies.

Students will have the opportunity to choose other training activities featuring experimental and laboratory contents, and/or start an internship period that enables them to ascertain and consolidate the acquired skills in the job market. They will also be able, from the first year, to identify an autonomous in-depth path of knowledge through the choice of courses proposed as an alternative to the study plan of

the degree programme or through elective activities.

JOB OPPORTUNITIES

The Master's degree programme in Advertising, digital communication and creative business processes trains people who are in charge of technical and managerial functions in terms of managing the internal and external business communication, both traditional and multimedia. Graduates in Advertising, digital communication and creative business processes are able to work in press offices, advertising agencies, cultural industry businesses, agencies dealing with the communication and the image of companies, as well as the communication of public and private companies in the manufacturing and advanced tertiary sectors.

President of the Degree Programme

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Master's degrees / Society and culture

Religions Histories Cultures

Interuniversity degree programme, jointly with the Universities of Bologna, Ferrara and Parma. Administrative headquarters at the University of Bologna.

Facility: The inter-university programme between the University of Bologna, the University of Modena and Reggio Emilia, and the Faculty of Theology of Emilia Romagna is based in Bologna in Piazza S. Giovanni in Monte, 2

Duration: 2 years

Training Credits: 120

Degree Class: LM-64 Class of master's degrees in religious sciences

Required qualification: Bachelor's degree.

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

<https://corsi.unibo.it/magistrale/ReligioniStorieCulture>

PRESENTATION

The Master's Degree Programme in Religions, Histories, Cultures aims to train specialists in the study of religions equipped with adequate analytical tools, deriving from the ability to use an interdisciplinary approach capable of combining a solid historical, linguistic, literary and specialist knowledge with anthropological, legal, and sociological methodologies.

The acquisition of this knowledge is aimed at providing a professional profile capable of intercepting and managing the transformations of contemporary societies characterised by cultural and religious pluralism and developing strategies for mediation and management of socio-cultural differences. These skills can also provide up-to-date and adequate communication skills to grasp the specificities of different religious traditions and their interactions in public and private contexts.

PROGRAMME CONTENTS

The Degree Programme Board proposes a series of common lessons (in the first and second years), which introduce the student to the knowledge of the religious systems covered by the degree programme (Judaism, Christianity, Islam, Religions of Asia), to the methods and analytical theories used to study religious facts and to the legal, political-cultural, anthropological sociological and methodological perspectives that characterise the management of religious pluralism. Subsequently, the programme is divided into four thematic tracks (Christianity, Judaism, Islam, Religions of Asia), each of which includes an in-depth study of the following areas: Texts and history, History, Social sciences, Philosophy and law, Exegesis, Theology and the arts, as well as in-depth study of a vehicular language

that is distinctive. In the second year, an in-depth study of a European language and a transversal Senior Seminar is planned.

JOB OPPORTUNITIES

Specialist in the study, management and control of social phenomena / analyst of cultural and religious processes. Disseminator and Cultural Education Worker.

The degree programme also gives access to the initial training and qualification courses of teachers, provided that the general requirements established by law and the minimum credits in the scientific disciplinary sectors provided for by the legislation for each class of teaching are matured

President of the Degree Programme

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Tutoring delegate

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Pedagogy

Facility: Viale Timavo 93
42121 Reggio Emilia

Duration: 2 years

Training Credits: 120

Degree Class: LM-85 Class of master's degrees in pedagogical sciences

Required qualification:

Bachelor's degree

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Examinations common to the 2 curricula:
Philosophy of the arts and symbolic processes (8)

Sociology of educational policies (6)

Moral philosophy (6)

Educational theories and methods + Cultural history of education (14)

English language (4)

"Consulting and educational planning"

Curriculum

Comparative law of minors (8)

Social Statistics + Social Statistics Laboratory (6)

Clinical Psychology (6) or Social History (6)

or Clinical and Prison Criminology (6)

"Human sciences for pedagogical research"

Curriculum

Theory and History of Narrative Genres (8)

Religion and politics (6) or Pragmatics of

spoken and written communication (6) or

History of the idea of Europe (6)

History of Globalisation (6) or Clinical Psychology (6) or Inclusion Pedagogy (6)

SECOND YEAR

Examinations common to the 2 curricula:

Psychology of learning processes + Psychology of attitudes and opinions (12)

Theories and methods of training + Planning

in educational and training contexts (16)

Elective credits (8)

Final examination (20)

"Consulting and educational planning"

Curriculum

Pedagogical coordination and formative

evaluation (6)

"Human sciences for pedagogical research"

Curriculum

History of Philosophy (6)

N.B. The study plan may be subject to changes. Any updates will be available on the website <http://www.des.unimore.it> or on

the portal www.universitaly.it.

PRESENTATION

The new issues addressed by services of educational and socio-educational, school and non-school nature are in urgent need of a professional figure who is able to carry out complex programming, organisational, and coordination tasks. The Master's Degree Programme in Pedagogy effectively meets this demand, by providing skills of educational research, pedagogical consulting, design and assessment of actions in the training field. The programme also combines theory with practice, by offering students the broadest opportunities to consolidate their theoretical-methodological tools, at the same time also favouring the application of theories to real cases. The programme does not include compulsory internship programmes. However, it is still possible to carry out training internship on request in organisations identified and approved by the Department of Education and Human Sciences: the internship is recognised in terms of university training credits (CFUs). Access to the degree programme has a limited access: please see the call for applications for details.

PROGRAMME CONTENTS

The programme consists of a wide range of common subjects in the pedagogical, philosophical, psychological, and sociological areas, with an interdisciplinary approach, and is divided into two curricula: Human sciences for pedagogical research and Educational consulting and planning (see study plan).

JOB OPPORTUNITIES

The Master's Degree Programme

trains graduates to work as: • scholars, trainers and assessors in pedagogical and psycho-pedagogical research centres and projects, in management, guidance, support and control departments in Public Administration and private organisations; • pedagogical consultants in the public and private sector, dealing with prevention, education, and recovery of distress and reduction of handicap, as well as the integration between genders, generations, social groups, cultures in professional guidance and training; • pedagogical coordinators in educational services addressed to children, teenagers, young people, adults, and the elderly.

President of the Degree Programme

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www.des.unimore.it/LM/SP

Digital Learning Theories and Methodologies

Facility: Reggio Emilia
Viale Timavo 93

Duration: 2 years

Training Credits: 120

Degree Class: LM-93 Class of master's degrees in theories and methodologies of e-learning and media education

Required qualification:

Bachelor's degree

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Examinations common to the two curricula:
Digital learning theories and methodologies (6)

Educational design and assessment in digital contexts with digital platform workshop (6)

Training in the knowledge society (6)

Social psychology and new media (6)

Theory and teaching of digital imaging (6)

Computer tools and methodologies for e-learning (12)

English language (6)

Language and thought in educational perspective (6)

"Education in digital contexts" curriculum

An exam chosen from

History of education and communication processes (6)

Digital technologies and religious literacy (6)

"Media Literacy" curriculum

An exam chosen from

Public history (6)

Philosophy and public opinion (6)

SECOND YEAR

Examinations common to the two curricula:
Language and knowledge in media contexts (6)

Computer methodologies and tools for communication with directing and audio-video editing workshop (6)

Digital Media sociology (6)

English language (advanced) (4)

Technologies for teaching (2)

Training internship (4)

Electives (8)

Final examination (12)

"Education in digital contexts" curriculum

Technologies for inclusion and Special Educational Needs (6)

An exam chosen from

Music teaching in digital contexts with

workshop (6)

Digital humanities (6)

Digital tools and contexts for heritage education (6)

"Media Literacy" curriculum

Psychology of multilingualism (6)

An exam chosen from

Comparative media law (6)

Intermedia languages (6)

Digital Storytelling (6)

PRESENTATION

The Master's Degree Programme in Theories and Methodologies of Digital Learning aims to train the professional figure of the pedagogue (qualified under Law 205/2017) expert in the design, organisation, management and evaluation of training and socio-educational services, with particular skills in the use of digital media and technologies. In particular, graduates will be able to take on management and coordination roles in teaching planning and the realisation of e-learning courses, in the training of trainers on the topics of e-learning, digital teaching and media education in various training areas, in the training of teachers and school managers on topics related to information and communication technologies, in communication activities, dissemination and promotion of the use of educational and communication technologies in various public and private contexts.

PROGRAMME CONTENTS

The programme provides a basic background in pedagogy, education, psychology and sociology, supplemented by discipline-specific communication and IT skills. The training provides a balance between face-to-face and remote teaching activities and delivery times that allow active teaching. The lectures include presentations as well as

practical exercises and testimonies. Remote teaching activities include various innovative methodological approaches. Workshops will focus on the most recent international research results.

JOB OPPORTUNITIES

The main job opportunities for graduates are as follows:

- Pedagogue (licensed under Law 205/2017),
- Head of digital training,
- Expert of digital communication,
- Media education consultant.

President of the Degree Programme

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www.des.unimore.it/site/home/didattica/teorie-e-metodologie-del-digital-learning.html

Master's degree / Health

Sport and Health

Interuniversity degree programme with the University of Verona.

Facility: Via del Pozzo, 71
41124 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-67 Class of master's degrees in science and techniques of preventive and adapted motor activities

Required qualification:

Bachelor's degree.

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

FIRST YEAR - COMMON PROGRAMME - MODENA

Design and evaluation of sport and physical activity for health: foundations and methodologies

Design and evaluation of sport and physical activity for health: foundations and methodologies

Biomedical monitoring of training: sports physiology

Biomedical monitoring of training: cardiovascular diseases

Psycho-sociological foundations of the promotion of physical activity and sport for health: sociology of health

Internship 1st Year

SECOND YEAR "MOTOR ACTIVITY AND HEALTH" CURRICULUM - MODENA

Conducting sports and motor activities for health

Physical activity and sports models for active lifestyles

Osteoarticular pathologies in motor activities and sport

Monitoring of sport activities

Sensitive exercise oncological pathologies

Ethics and doping

Internship 2nd Year

Final examination

SECOND YEAR "HEALTH PROMOTION MODELS" CURRICULUM - VERONA

Conducting sports and motor activities for health

Physical activity and sports models for active lifestyles

Osteoarticular pathologies in motor activities and sport

Psychology of sport

Neurology

Sports medicine

Internship 2nd Year

Final examination

PRESENTATION

The Master's Degree Programme in Health and Sport Class LM-67 in Science and Techniques of Preventive and Adapted Motor Activity is aimed at training highly qualified professionals with advanced scientific knowledge in the field of human motor activities, with particular regard to the preventive and adaptive areas.

PROGRAMME CONTENTS

Educational activities include basic, characterising and related disciplines in the areas of biomedical sciences and socio-psycho-pedagogical sciences. During the programme, students carry out internships they choose and carry out in national and international health-care facilities for high qualifications.

JOB OPPORTUNITIES

The Master's degree in Health and Sport (kinesiologist of adapted motor activity) has the role of planning and implementing motor activity protocols for healthy subjects for the purpose of prevention, subjects at risk or already suffering from pathologies, in the different age groups and physical conditions, aimed at the management of preventive measures and in particular at the control and improvement of pathologies with stabilised outcomes of the cardiovascular, musculoskeletal, osteoarticular, neurodegenerative and dysmetabolic systems, through adapted motor activity.

Graduates can work in public and private facilities in the areas of tourism-recreational and post-rehabilitation services such as:

a) Fitness centres, swimming pools, socio-educational centres, hotel facilities, spa facilities, wellness centres, amateur sports associations,

health facilities and gyms promoting health and adapted motor activity, b) Socio-pedagogical facilities, in which programmes or courses of individual or collective motor activities, health development promotion, tourism-recreational, educational-psychomotor activities, aimed at children, adults, the elderly and the disabled, are conducted, c) Gyms promoting health.

They can attend advanced master programmes on issues related to their professional status, as well as access to doctoral research schools according to the current university legislation.

President of the Degree Programme

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Master's degree / Health

Nursing and Midwifery Sciences

Facility: Via Amendola, 2 - Pav. De Sanctis

42122 Reggio Emilia

Duration: 2 years

Training Credits: 120

Degree Class: LM/SNT1 Class of master's degrees in nursing and midwifery sciences

Required qualification:

University Degree in Nursing or Midwifery or equivalent degree

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Methodology of health research (10)

Applied nursing and midwifery 1 (12)

Health law (5)

Health teaching (9)

Scientific English (4)

Internship 1st Year (20)

SECOND YEAR

Health Planning and Economics (11)

Midwifery and applied nursing 2 (9)

Health planning and organisation (10)

Health ethics and deontology (5)

Prevention and management of clinical risk (9)

Internship 2nd Year (10)

Final examination (6)

PRESENTATION

The Master's Degree Programme in Nursing and Midwifery Sciences aims to train specialised professionals who are capable of intervening in the management, training and research processes in the health professions of nurses and obstetricians.

The programme also allows the acquisition of advanced skills for the development of new organisational models and management of the nursing and obstetrics profession.

PROGRAMME CONTENTS

The training activities include basic, distinctive and similar disciplines in the areas of nursing and biomedical sciences, and human and legal-economic sciences. During the programme, students carry out internships they choose and carry out in national and international health-care facilities for special qualifications.

JOB OPPORTUNITIES

Graduates have an advanced cultural and professional training that allows them to intervene effectively in health and care processes. They can direct the nursing and obstetric services of simple and complex health facilities, where they have the responsibility to plan, organise, manage and evaluate resources and activities, and to manage the budget. They can attend master's degree programmes on issues related to their professional status, as well as access to doctoral research schools according to the current university legislation.

President of the Degree Programme

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Master's degree / Science

Didactic and Communication of Sciences

Facility: via Giuseppe Campi, 103
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-60 Class of master's degrees in natural sciences

Required qualification:

Bachelor's degree

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Complements of Mathematics for Science (12)

Ecology and global changes (12)

Methods and tools of scientific communication (6)

GEOSCIENCE (12) two teachings to be chosen from:

Principles of Geology (6)

Palaeontology and evolution of Vertebrates (6)

Elements of Global Tectonics (6)

Minerals and ecosystem (6)

Magmatism and Volcanology (6)

BIOSCIENCE (12) two teachings to be chosen from:

Principles of Biology (6)

Plant biodiversity and evolution (6)

Biology Education and Communication (6)

Animal Systems Physiology (6)

CHEMISTRY (6) one teaching to be chosen from:

Analytical Chemistry of Environmental Processes (6)

Physical Chemistry of Natural Systems (6)

SECOND YEAR

Methods and tools of digital communication (6)

One block chosen from the following three options (12)

Option I (12)

History of Mathematics (6)

Teaching of Mathematics (6)

Option 2 (12)

Complements of Physics for Science Education (6)

Psychology of handicap and rehabilitation (6)

Option 3 (12)

Chemistry Education and Communication (6)

Earth Sciences Education and Communication (6)

Teaching English for Science (in English) (6)

12 CFU - electives

Thematic seminars (1)

Internship (6)

Degree Thesis / Final Exam (17)

N.B. The study plan may be subject to

changes. Any updates

will be available on the website

www.dscg.unimore.it or on the portal www.universitaly.it.

PRESENTATION

The Master's Degree in Didactic and Communication of Sciences (hereafter S4EDU) trains a well-defined, nationally innovative and multi-tasking professional figure on the basis of modern science education. S4EDU graduates combine a knowledge of how natural systems work with the most effective skills in science communication and dissemination. This Master's Degree, which is part of the LM-60 Nature Sciences Class, is the natural complement to the Bachelor's degree in Natural Sciences (L-32). S4EDU is also open to three-year graduates with a different scientific background who are interested in the integrated understanding and communication of science.

PROGRAMME CONTENTS

The strength of S4EDU is its strong interdisciplinary nature, which allows for approaching nature sciences from different perspectives. In the first phase (LEARNING), alongside the consolidation of mathematical studies for the sciences, the problem of climate change and the conscious management of the Earth System will be explored, integrating themes from Ecology, Biosciences, Geosciences and Chemistry. The most modern methodologies and technologies of scientific and digi-

tal communication (COMMUNICATING) will subsequently be acquired. S4EDU is completed by seminars and practical activities useful for entering the world of work (PRACTICE) carried out in a naturalistic analysis centre, school, divulgation centre. Some activities are carried out in collaboration with MUSE, the Science Museum of Trento.

JOB OPPORTUNITIES

The S4EDU professional figure is absent in the region and poorly represented at national level. A strong point is the multi-faceted nature of the graduate, who will be able to teach science in Upper Secondary Schools and mathematics and science in Lower Secondary Schools. Graduates in S4EDU will also be able to collaborate on naturalistic and scientific publishing projects. In addition, they will be able to direct their career towards the creation of projects for the monitoring and enhancement of the natural environment, environmental design aimed at safeguarding fauna and flora, the conservation of biodiversity and the enhancement and preservation of sites of geological and naturalistic interest. It allows registration in the professional register of graduate agro-technicians and agronomic surveyors (after passing the state examination).

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www.s4edu.unimore.it

facebook.com/S4EDU/

Instagram: S4EDU

Master's degree / Science

Physics

The programme is taught entirely in English

Facility: via Giuseppe Campi, 213/a
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-17 Class of master's degrees in physics

Required qualification:
Bachelor's degree.

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

Three curricula are activated:

"Theoretical and computational physics"
"Nano-physics and quantum technologies"
"Bio-physics and applied physics"

According to the chosen curriculum, the following teachings are available (training credits in brackets):

Advanced quantum field theory (6)
Advanced quantum mechanics (6)
Advanced spectroscopic and imaging methods (6)
Atomistic simulation methods (6)
Biological physics with laboratory (6)
Chemical physics of biomolecules (6)
Complex systems (6)
Elementary particles (6)
High performance computing (6)
Introduction to conformal field theory (6)
Laboratory of electron microscopy and holography (6)
Laboratory of nanostructures (6)
Laboratory of quantum simulation of materials (6)
Magnetism, spintronics and quantum technologies (6)
Machine learning and deep learning (6)
Medical physics (6)
Nano-mechanics (6)
Nanoscience and quantum materials (6)
Numerical algorithm for signal and image processing (6)
Photonics and microwaves (6)
Physics education: theoretical and experimental methods (6)
Physics of semiconductors (6)
Quantum field theory (6)
Quantum information processing (6)
Quantum many-body theory (6)
Quantum physics of matter (6)
Relativity (6)
Solid state Physics (6)
Statistical mechanics and phase transitions (6)

Synchrotron radiation: basics and applications (6)

Job-oriented training activities:

Good practise in research (3)

Physics and society (3)

Science-based innovation (6)

High-Performance-Computing in sciences (3)

Electives (12)

Thesis project and final exam (36)

PRESENTATION

The Master's Degree in Physics provides an up-to-date academic background in various sectors of contemporary physics. Three curricula, flexible study programmes, teachings that integrate theoretical, experimental, and computational skills, along with a research degree thesis on themes that are meeting points, provide an advanced and customised background for students' interests. The teaching activity is taught entirely in English and has a low ratio of students/professors; it uses scientists of the Department who are leaders in their respective research sectors, and foreign university professors (visiting professors). Students therefore are in direct contact with the latest research developments when they are still studying.

PROGRAMME CONTENTS

The "Theoretical and computational physics", "Experimental nano-physics and quantum technology", and "Bio-physics and applied physics" curricula are being offered. Programmes cover the physics of matter, both theoretical-computational and experimental, the physics of the other energies, and various application fields, from nanotechnologies to biophysics, to quantum technologies.

At least a semester is dedicated to

an original research project in a research group of the Department or other research centres, within professors' scientific collaborations.

JOB OPPORTUNITIES

Master graduates in physics acquire analytic and problem-solving skills, mathematical and technological knowledge, and an in-depth understanding of the essential phenomena, which is needed for the research and development of new technologies, thus ensuring an effective access to the world of work. Our graduates work in all high-tech industrial sectors, from advanced mechanics to electronics and telecommunications, from biomedical to ceramic industries. Master graduates in physics find employment also in meteorology and environmental control, medical physics, finance sector, scientific publishing, and higher education. Many master graduates access the PhD programme, in Italy or abroad, which is a starting point of a career in scientific research, both academic and industrial.

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Master's degree / Science

Geosciences, Geo-risks and Georesources

Facility: via Giuseppe Campi, 103
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-74 Class of master's degrees in geological sciences and technologies

Required qualification:
Bachelor's degree.

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

Curriculum A: Earth System and Georesources

FIRST YEAR

Global tectonics and sedimentary basins (12)

Natural raw materials (9)

Groundwater resources (6)

Geoheritage and global geoparks (in English) (6)

Technical English for Geosciences (3)

18 CFUs chosen from:

Global Geological Events (6)

Paleoclimatology (6)

Applied biostratigraphy (in English) (6)

Geo-energies (6)

6 CFUs chosen from:

Integrated stratigraphy and astrochronology (in English) (6)

Advanced mineralogical analysis (6)

SECOND YEAR

Geothematic Surveying and Mapping (9)

Electives (12)

12 CFUs chosen from:

Advanced isotope geochemistry (in English) (6)

Petrology and Volcanology (6)

Crystalline Rock Detection (6)

Internship (8)

Thematic seminars (1)

Thesis / Final Exam (18)

Curriculum B: Georisks and Land Management

FIRST YEAR

Georisks and civil protection (in English) (6)

Geoenvironment and Applied Geophysics (12)

Environmental mineralogy (in English) (6)

Groundwater resources (6)

Landslide risk assessment and mitigation

(in English) (6)

Hydraulic risk (6)

Geomatics for the territory (6)

Seismic sources and microzonation (6)

English for geosciences (in English) (3)

6 CFUs chosen from:

Paleoclimatology (6)

Global Geological Events (6)

Geo-energies (6)

SECOND YEAR

Geothematic Surveying and Mapping (9)

Environmental law (6)

Electives (12)

Internship (11)

Thematic seminars (1)

Thesis / Final Exam (18)

Elective teachings can be chosen from both curricula of the Degree Programme and / or from other Master's degree programmes of the university, as long as they are consistent with the educational objectives of the master's degree

N.B. The study plan may be subject to changes. Any updates will be available on the website www.dscg.unimore.it or on the portal www.universitaly.it.

PRESENTATION

The Degree programme trains specialists in geology with an in-depth scientific-technical preparation through two distinct curricula:

A) "Earth System and Georesources": providing specific training in the analysis of earth dynamics at various scales, and in the techniques of prospecting, retrieval, characterisation and valorisation of georesources, considered as raw materials and environmental heritage.

B) "Geodesy and Land Management": providing specific training in the assessment, prevention and mitigation of geological dangers and risks and in the analysis of geological and technical factors that affect the sustainable development and management of the territory.

PROGRAMME CONTENTS

The programme includes training activities related to various sectors of the geological area, according to the curriculum, as well as linguistics, engineering and law. It also provides for student-choice activities, training seminars and an internship to be carried out in Italy or abroad, in professional firms, industries and institutions. The programme includes an experimental thesis - project or research - also in collaboration with external organisations and companies.

JOB OPPORTUNITIES

Master graduates find employment in positions of responsibility in the geological and industry service and consulting field. After passing the state exam, they can enrol in the professional register and exercise the freelance profession of Geologist performing the functions defined by law (Presidential Decree 328/2001).

According to the chosen curricular programme, graduates can work in areas related to the retrieval and use of natural raw materials, the exploitation of the geological heritage or related to geological risk analysis, technical geology and land planning, with a view to environmental sustainability.

President of the Degree Programme

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Master's degree / Science

Computer Science

Facility: Via Giuseppe Campi, 213/b
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-18 Class of
master's degrees in Information
Technology

Required qualification:
Bachelor's degree

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Software Development Methodologies (6)
High Performance Computing (9)

Optional teachings:

Embedded and real-time systems (9)
Secure Software Development (9)
Big Data Analytics (9)
Cybersecurity (9)
Encryption algorithms (6)
Machine Learning Fundamentals (6)
Computational and statistical learning (6)
Complex systems (6)
Privacy and data protection (6)
Scientific Data Processing (6)
Introduction to Quantum Information processing (6)
Optimisation algorithms (6)
Information technology and new technologies law (6)
Bioinformatics (6)
Platforms and Algorithms for Autonomous Systems (6)

SECOND YEAR

Distributed Algorithms (9)
Internship (6)
Final test (24)
Electives (12)

Optional teachings:

Kernel hacking (6)
Mobile Programming (6)
Cloud and Edge Computing (6)
Deep learning (6)
IoT Systems (6)

PRESENTATION

The Master's Degree Programme in Computer Science aims to train highly specialised professionals in computer science with particular emphasis on distributed and high-performing computing, one of the most innovative areas of the discipline. Thanks to the teaching staff's recognised experience in research and close ties with industry and the local area, students acquire solid skills in the field, having the opportunity to customise the degree programme in strategic areas such as embedded systems, scalable data science, software and information security.

PROGRAMME CONTENTS

The Master's Degree Programme includes three compulsory teachings that provide basic training in the modelling, design and implementation of distributed and high-performance computing systems. The completion of the curriculum is flexible and provides a choice from a wide range of subjects, ranging from artificial intelligence to law, via cryptography and IoT, and allows students to refine their studies according to their interests and aspirations. Four predefined curricula are proposed on as many specialisations of distributed and high-performance computing: embedded systems, scalable data science, software and information security, software design and development.

JOB OPPORTUNITIES

The Master's Degree Programme in Computer Science includes three compulsory teachings that provide the necessary basic training in modelling, design and implementation of distributed and high-performance computing systems. The completion of the curriculum is

flexible and provides a choice from a wide range of subjects, ranging from artificial intelligence to law, via cryptography and IoT, and allows students to refine their studies according to their interests and aspirations. In this context, the Master's Degree Programme offers four predefined curricula focusing on four specialisations of distributed and high-performance computing: embedded systems, scalable data science, software and information security and software design and development.

President of the Degree Programme

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Master's degree / Science

Mathematics

Facility: Via Giuseppe Campi, 213/b
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-40 Class of master's degrees in mathematics

Required qualification:

Bachelor's degree

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

- General Curriculum

Higher Algebra (6)
Higher Geometry (6)
Superior Analysis (12)
Statistical Mechanics (6)
Signal processing and inverse problems (12)
Dynamic systems (6)

- Educational Curriculum

Mathematics Education (6)
Elementary mathematics from a higher point of view (6)
Complements of Mathematical Analysis (12)
Surface geometry (6)
24 credits of modelling-application training of your choice

- Data Science Curriculum

Computational and statistical learning (9)
Superior Analysis (12)
Stochastic Processes (6)
Higher Geometry (6)
Introduction to scientific Python (3)
6 CFU of Advanced Theoretical Training electives
12 credits of modelling-application training electives

6-credit elective teachings to be chosen from the following: (according to the curriculum)

Higher Algebra
Algebraic structures
Combinatorial geometry
Discrete mathematics
Computational topology (in English)
Geometric topology of manifolds
History of mathematics
Calculation of variations
Convex analysis and optimisation
Evolution equations
Partial differential equations
Mathematical models for finance
Stochastic methods for simulations
Models of mathematical physics (taught in English)

Systems of interacting particles
Digital processing of signals and images
Scientific data processing
Introduction to quantum information processing (in English)
Physics education (in English)
Encryption algorithms
Complex systems (in English)
Methods and tools of scientific communication

Internship, Language Skills, Computer Skills, Seminar Activities (3)
Advanced scientific English (3)
Final test (24)

PRESENTATION

As of the 2020-21 academic year, the programme is organised in three separate curricula:

- General Curriculum
- Educational Curriculum
- Data Science Curriculum

In addition to three-year graduates in Mathematics, the programme is aimed at all graduates in the Sciences, Computer Science, Economics and Engineering disciplines, who wish to acquire in-depth preparation in Mathematics, to enter the highly qualified job market or continue their studies towards a PhD programme.

PROGRAMME CONTENTS

Based on the training programme chosen, the Master's Degree in Mathematics provides for a deep study of Algebra, Mathematical Analysis, Numerical Analysis, Geometry, Probability, and Mathematical Physics. The training offer also covers a wide range of optional teachings on various aspects ranging from Mathematics teaching to applied Mathematics. Internships in companies, banks or financial companies, or in schools are also part of the degree programme. A significant portion of the curriculum is devoted to the thesis, which allows students to prepare an original

paper.

JOB OPPORTUNITIES

Based on the training programme chosen, Master graduates in Mathematics may enrol in a Ph.D. programme, paving the way to universities or public and private institutions. Graduates can also strive for taking on managerial roles in highly specialized job markets, or working in the dissemination of scientific culture. They can also continue specialising in Applied Mathematics by enrolling in Vocational (first-level) or Advanced (second-level) Master Programmes or in other high-training programmes. Finally, graduates can complete the teaching qualification process through the activities set up for teacher training.

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Master's degree / Science

Quaternary, Prehistory and Archaeology

Facility:

Administrative office:
University of Ferrara
Modena campus: via G. Campi, 103
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-2 Class of master's degrees in archaeology

Required qualification:

Bachelor's degree.

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Ancient sources (6)
Human palaeontology and palaeoanthropology (6)
History of the Classical World (6)
Geoarchaeology, Morphology and Formative Processes (6)
Internship (6)

A B2 level foreign language teaching among:
French Language, English Language, Spanish Language, German Language (6)

Two teachings to be chosen from:
Archaeobotany (6)
Archeozoology and taphonomy of animal hard materials (6)
Archaeopetrography (6)
Evolution of Quaternary fauna ensembles (6)
Chronology and cultures of the Paleolithic (6)

Two teachings to be chosen from:
For the Prehistory and Protohistory curriculum we recommend:
Chronology and cultures of the Mesolithic and Neolithic (6)
Methods: technology of vascular forms (6)
Chronology and cultures of the Metal Age (6)
Technology and typology of lithic industries (6)
Methods and techniques for archaeological research (6)

For the Archaeology path we recommend:
Methods and techniques for archaeological research (6)
History of Greek and Roman art (6)
Classical Archaeology (6)
Early Middle Ages Archaeology (6)
Late Middle Ages Archaeology (6)

SECOND YEAR

Two teachings to be chosen from:
Archaeotechnology of materials (6)
Human Skeleton Biology (6)
Communication for archaeological heritage and archaeological museography (6)
Cultural enterprise management and ministerial competences for archaeology (6)
Geoarchaeology of soils and archaeological sediments (6)
Landscape archaeology (6)
Thematic cartography and GIS (6)
Archaeobotany laboratory (6)
Dating methods for archaeology (6)
Applied geophysics for archaeology (6)

For the Prehistory and Protohistory curriculum, a teaching chosen from:

Etruscology (6)
Technical-functional analysis of lithic artefacts (6)
Molecular archaeoanthropology (ancient DNA) (6)
History and archaeology of the ancient Near East (6)

For the Archaeology curriculum, a teaching chosen from:

Ancient Numismatics (6)
History and archaeology of the ancient Near East (6)
Archaeology of the Roman provinces (6)
Ancient Topography (6)

PRESENTATION

The degree programme offers interdisciplinary and applied training in the field of Archaeology, from Prehistory to the Middle Ages. The programme is divided into two theme curricula available: 1. Prehistory and Protohistory, 2. Archaeology. In order to facilitate attendance, the programme may be attended in traditional mode (face-to-face) or remotely using the videoconference system.

PROGRAMME CONTENTS

The programme meets the need for broad, non-sectoral knowledge in the analysis of human and cultural evolution, through the development of methodological, biological, palaeoenvironmental, geoarchaeological, archaeological and prehistoric fields. The study of prehistory and archaeology today is based on the

full integration of historical/literary and scientific knowledge. The degree provides expertise in ancient natural environments, material culture and sources for understanding biological, environmental, technological, economic, cultural, social and historical developments. In addition to the wide range of teachings available in these areas, students participate in practical experience in internationally renowned archaeological excavations and in state-of-the-art scientific laboratories for the study of cultural heritage.

JOB OPPORTUNITIES

The programme trains graduates to the professions of palaeontologist, anthropologist, archaeologist, museum curator and conservator, superintendency official. Job opportunities include management, design, valorisation, consultancy and research in public or private bodies responsible for cultural and natural heritage; scientific and archaeological museums and parks; excavation activities; predictive mapping of risk and territorial archaeological potential for urban planning; archaeological and historical landscape impact assessment; bibliographic, geo-iconographic, historical and archival research, cataloguing, archiving and database management; specialised museum education; specialised publishing and scientific dissemination; professional training courses.

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www.dscg.unimore.it/LM/QPAS

Master's degree / Science

Chemical Sciences

Facility: via Giuseppe Campi, 103
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-54 Class of master's degrees in chemical sciences

Required qualification:

Bachelor's degree.

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Instrumental Analytical Chemistry (12)

Physical Chemistry and Molecular Spectroscopy (12)

Superior Inorganic Chemistry (6)

Higher Inorganic Chemistry Laboratory (6)

Advanced Organic Chemistry 1 with laboratory (6)

Advanced Organic Chemistry 2 with laboratory (6) (6)

Technical English (3)

1 teaching chosen from:

Analytical and Applied Mineralogy (6)

Application of REACH / CLP Regulations (6)

SECOND YEAR

Degree thesis (30)

5 elective teachings - 6 CFUs each (30)

1 elective teaching - 3 CFUs each (3):

Chemometry (Eng.) (6)

Chemical Sensors and Biosensors (6)

Analytical techniques of mass spectrometry (6)

Bioinorg. chem. (ing.) (6)

Traditional and advanced ceramics and glass chemistry (6)

Chemistry of coordination compounds (6)

Computational Chemistry (6)

Physical Chemistry of Complex Systems (6)

Physical Chemistry of Materials (6)

Organic Chemistry of Macromolecules (6)

Spectroscopic techniques for structural identification (6)

The chemist's professionalism (3)

N.B. The study plan may be subject to

changes. Any updates

will be available on the website

www.dscg.unimore.it or on the portal www.universitaly.it.

PRESENTATION

Chemistry studies matter, its properties, and its transformations. It involves and regulates every aspect of our lives, our environment and our world, it makes it possible to understand the processes and phenomena that occur inside and around us. The development of chemical knowledge has a great technological impact and contributes decisively to economic and social development, making possible the discovery of new substances and the development of innovative materials. This enables Master graduates in Chemical Sciences to pursue rewarding jobs in industry and in the field of scientific research, services and environment.

PROGRAMME CONTENTS

The Master's Degree in Chemical Sciences further explore the knowledge of the various disciplinary subjects, providing specialist knowledge in the different chemical sectors. It includes a core of common courses, in which students study the behaviour of real systems using theoretical tools and advanced experimental techniques. Students complete their training by taking some optional classes, chosen on the basis of their interests and employment expectations, and during the thesis period, carried out in laboratories in universities, or in external labs, also abroad. The optional courses (some of which are taught in English) provide skills required to carry out research and development activities in the public and private sectors and are closely linked to the lecturers' research activities.

JOB OPPORTUNITIES

Master's graduates in Chemical Sciences have specialised skills in the various fields of chemistry and are able to use modern chemical instruments, operating with a high degree of autonomy. They may:

- hold positions of responsibility in laboratories for research and development, control and analysis in the industrial, environmental, health, cultural heritage and public administration sectors;
- be freelance professionals and consultants, passing the qualifying examination and enrolling in the Chemists' Register, Section A;
- continue their training enrolling in Ph.D. programmes, Specialisation and Advanced Master Programmes (2nd level);
- take part in teacher training courses for upper and lower secondary school teachers.

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Master's degree / Life

Experimental and Applied Biology

Facility: via Giuseppe Campi, 287
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-6 Class of master's degrees in biology

Required qualification:

Bachelor's degree

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

The study plan is being revised. For the up-to-date study plan, please see the website: www.dsv.unimore.it

FIRST YEAR

Molecular and epigenetic genetics (7)
Biomolecular and genomic analysis methodologies (6)
Quality systems for health and the environment (9)
Experimental Design and Data Analysis in Biology (8)
Microbiology for clinical diagnostics, environmental monitoring and food analysis (6)

Evolution, control and protection of biodiversity and the environment
Animal biodiversity and phylogeny (7)
Biological Evolution (7)
Anthropogenic alterations of ecosystems: monitoring and management (8)

Study, control and protection of health
Food and Nutrition (7)
Pathophysiology and pathology of nutrition (8)
Immunobiology and Integrated Biological Functions (12)

SECOND YEAR

Seminars in Life Sciences (3)
Electives (12)
Internship and Final examination (24)

Evolution, control and protection of biodiversity and the environment
Plant bioindicators, environmental transformations and sustainability (7)
Conservation and management of animal and plant biodiversity (10)
Zoology for Biomonitoring and Biological Control (6)

Study, control and protection of health
Histopathological and molecular diagnostics (6)
Translational Medicine (6)
Pharmacology and Pharmacognosy (6)

PRESENTATION

The Master's Degree Programme in Experimental and Applied Biology trains high-profile professional graduates able to enter the job market with skills rooted on a solid cultural basis. In fact, the study plan includes subjects that play the role of the basic tool of biology, in a common pathway, and subjects applied especially to understanding the close relationship between human health and environmental health, with a curriculum on nutrition and pathology and a curriculum on evolution and ecology. In this way, master graduates have an original wealth of technical and biological skills that will soon be useful in a wide range of work activities. The programme requires an experimental thesis, with activities carried out in highly qualified laboratories where students refine their practical skills and critical thinking. This programme provides valuable versatility through the study of subjects that broaden the bachelor's degree knowledge and subjects providing insights into the most up-to-date and urgent aspects of biological research.

PROGRAMME CONTENTS

After a common first semester, which covers molecular genetics and epigenetics, molecular techniques, data analysis and quality systems, there is a choice of two curricula. In the "Study, control and protection of health" curriculum, students will study food and nutrition, laboratory diagnostics, chemical-clinical analyses, physiology of metabolism, biology and pathophysiology of nutrition, pathology and immuno-neuroendocrine integration, pharmacology. The "Evolution, monitoring and protection of biodiversity and the environ-

ment" curriculum will cover topics focusing on biological monitoring, evolution and phylogeny, ecological study and environmental certification, ongoing transformations and environmental sustainability, human impact and global change. In line with the chosen curriculum, the free-choice teachings and the research topics dealt with for the thesis allow students to tailor their study programme, with in-depth studies in the field of specific interest.

JOB OPPORTUNITIES

Biologists are expert professionals able to conceive and coordinate interdisciplinary actions concerning the relations between environmental quality and human health. They can specialise and bring innovation to monitoring activities in the laboratory or in the field, working in public companies, research institutions and parks, private companies linked to the food, biomedical, biochemical and cosmetic industries, and also organisations in the sectors of healthcare, public hygiene, and preservation and protection of biodiversity. The State Examination for Senior Biologist (Presidential Decree no. 328 of 5 June 2001) enables professionals to register with the National Order of Biologists.

President of the Degree Programme

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www.biologiasperimentaleapplicata.unimore.it

Master's degree / Life

Industrial Biotechnologies

Facility: via Giuseppe Campi, 103
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-8 Class of master's degrees in industrial biotechnologies

Required qualification:
Bachelor's degree.

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Methods of analysis of biological macromolecules (6)
Physical Chemistry for Biotechnology (6)
Microbial Genetics (6)
Experimental Data Analysis (2)
Communication skills and entrepreneurship (2)
Nanobiotechnology (10)
Microscopy and biophysics for biotechnology (6)
Molecular Modelling & Engineering (6)
Polymer Materials Science and Technology (5)
Business organization and innovation management (2)

SECOND YEAR

Microbial Biotechnology (11)
Biomaterials for the biomedical industry (6)
Industrial biocatalysis and biotransformations (5)
Biopolymers: microbial production and quality management (4)

Seminars in English (3)
Electives (8)
Internship (12)
Final examination (20)

PRESENTATION

Are you curious and creative? Do you think biotechnology is the basis for sustainable industry and the circular economy? Are you interested in big issues, such as the impact of plastics and consumer products on the environment? Would you like to develop next-generation 'smart' biomedical devices? Do you see yourself as an innovator capable of creating a business with advanced biotechnologies? If you answered yes, then the Master's Degree Programme in Industrial Biotechnologies (LM-8) is for you.

The programme aims to train modern biotechnologists with a sound multidisciplinary knowledge, experimental and transversal skills, and who are able to integrate the most advanced technologies.

The purpose is that graduates find employment in important production sectors in the Modena area, including:

- biomedical industry,
- the sustainable design and production of food, biodegradable materials and bioactive substances.

PROGRAMME CONTENTS

The Master's Degree in Industrial Biotechnologies provides a strong multidisciplinary scientific and technological basis, at the confluence of: biotechnology, chemistry and materials science, structural and molecular biology, microbiology, sensors and characterisation, realisation and production techniques. The training programme includes lectures combined with workshops; an apprenticeship or internship in universities, research institutions or companies, also in Europe; an experimental thesis project in a university research laboratory or in a company. Professors are international researchers, working in European, national and regional re-

search projects. Graduates benefit from a strong training in research and development, rich in management, design, and entrepreneurial soft skills.

JOB OPPORTUNITIES

Graduates in Industrial Biotechnologies are able to fit easily into the advanced biotechnology industry and are equipped with a wealth of knowledge essential for both the biomedical sector and multi-sectoral fields characterised by sustainable production. Graduates will have knowledge of the concepts behind the industry of the future, such as sustainability, circular economy, life cycle analysis, environmental impact, and will be able to operate, grow professionally, and contribute to the development of the biotechnology industry of the future. The degree also allows excellent and motivated graduates to access PhD programmes in Italy or abroad.

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Master's degree / Life

Medical Biotechnologies

Facility: via Giuseppe Campi, 287
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-9 Class of master's degrees in medical, veterinary and pharmaceutical biotechnologies

Required qualification:
Bachelor's degree

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Human Physiology (6)
Molecular human genetics and epigenetic control of the genome (8)
Protein Engineering (5)
Introduction to biological data analysis (2)
Molecular mechanisms of signalling between cells (6)
Methods for analysing genomes (8)
Pharmacogenomics (6)
Pathophysiology and immunopathology (9)
Viral vectors and genome editing: drawing and applications (5)

SECOND YEAR

Common path:
Seminars in life sciences (3)
Study models for targeted and advanced therapies (6)
Elective activities (12)
Internship (18)
Final examination (6)

Molecular and regenerative medicine study curriculum:
Clinical Applications of Medical Biotechnology (8)
Regenerative Medicine (12)

Molecular and regenerative study curriculum:
New developments in personalized therapy (10)
Principles and methods of personalized therapy (10)

PRESENTATION

The Master's degree programme in Medical Biotechnologies is highly job-oriented and provides the opportunity to learn and apply the most modern technologies of biomedical research aimed at protecting human health. A considerable part of the training is carried out in culturally state-of-the-art research laboratories equipped with technologically advanced scientific instruments in highly relevant national and international fields of application. This approach, together with a constant and systematic updating of the contents of the courses, makes it possible to train graduates with a modern profile that meets the demands of the job market.

PROGRAMME CONTENTS

The degree programme has a six-month teaching schedule, 12 compulsory examinations and an internship period ending with the final degree thesis. The first three semesters are spent in formal teaching and the last one in internships in qualified research laboratories, where students acquire specific cultural and practical skills. In the first two semesters, students will explore the main cellular, molecular and genetic aspects of human health and disease and the related study techniques. In the third semester, students will approach the theoretical, practical and legal aspects of the experimental and clinical use of stem cells and the most recent developments in precision medicine. In addition, special emphasis will be placed on gene transfer techniques, tissue reconstruction and the new borders of personalised medicine.

JOB OPPORTUNITIES

The degree programme trains high-profile graduates with specific professional skills. Graduates in Medical Biotechnologies at Unimore become experts in the use of molecular and cellular biology methods in the fields of development and use of experimental models (cell cultures, transgenic animals), of personalised medicine and of regenerative medicine, with job opportunities in public or private healthcare facilities and in biotechnology companies. Under current regulations, graduates in Medical Biotechnologies can take the State Examination for the profession of Senior Biologist (Presidential Decree no. 328 of 5/06/01).

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Master's degree / Life

Food Safety and Control

Facility: Via Amendola, 2 - Pav.

Besta
42122 Reggio Emilia

Duration: 2 years

Training Credits: 120

Degree Class: LM-70 Class of master's degrees in food science and technology

Required qualification:

Bachelor's degree.

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Physical and sensory analysis of food (6)
Biochemistry of Nutrition and Food Safety (6)
Flavour Chemistry and Technology (6)
Product innovation and food packaging (6)
Microbiology of fermented products (6)
Shelf-life prediction techniques (6)
Quality assessment of food of animal origin (8)
Electives (12)

SECOND YEAR

Food Control Chemometrics (8)
Food safety law - Food safety criminal law (3+3)
Agri-food biochemical methodologies (6)
Microbiological Techniques and Quality Management (8)

Other Activities (1)
Additional language skills (3)
Internship e Final examination (32)

PRESENTATION

The Master's Degree Programme in Food Safety and Control aims to provide students with specialist skills in the disciplines of food technology, which are fundamental for the management and development of food production processes, mainly aimed at achieving product quality and safety, through the optimisation of these processes and the management of industrial research and development projects.

in all companies connected with the production, processing, preservation and distribution of food products, in large-scale distribution, in public and private organisations that carry out planning, analysis, control and certification activities, as well as in those activities that carry out scientific investigations for the protection and enhancement of food production.

PROGRAMME CONTENTS

Students' training includes the acquisition of knowledge for the application and development of systems of self-control, assessment and traceability, aimed at ensuring food safety, and those necessary to support product and process innovation, as well as skills in food chemistry, biochemistry and biochemistry of nutrition and chemometrics for the management of experimental protocols. In order to protect the quality of foods at all stages of the industrial process, skills will be provided for managing the risk of xenobiotic residues and for the conscious use of food additives and the correct use of packaging materials. To complete the training, elements of food law and legislation are provided. In addition to lectures, the course offers students in-depth seminars on specific and innovative topics with experts from companies in the food sector.

JOB OPPORTUNITIES

Master's graduates in Food Safety and Control carry out planning, management, control, coordination and training activities in relation to the production, preservation, marketing and distribution of food and beverages. The profession is carried out mainly in the food industry and

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Master's degree / Life

Food Safety and Food Risk Management

Degree programme held entirely in English, jointly with the Universities of Bologna, Ferrara, Parma and Cattolica of Milan. Administrative headquarters at the University of Parma.

Facility: via Amendola, 2 Pavilion

Besta
42122 Reggio Emilia

Duration: 2 years

Training Credits: 120

Degree Class: LM-70 Class of master's degrees in food science and technology

Required qualification:

Bachelor's degree.

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR (UNIV. PARMA)

Food toxicology (6)
Exposure assessment and risk/benefit evaluation (6)
Food Technology (6)
Food Microbiology (6)
Biological hazards in food (6)
Plant Health (6)
Animal welfare (6)
Food Law and International policies (6)
Xenobiotics in food (6)
Biostatistics (6)

SECOND YEAR

Student's free choice (12)
Internship (17)
Final dissertation (4)

Agri-Food Safety Curriculum (Univ. Modena and Reggio Emilia)

Post-harvest diseases and their management (6)
Animal pests in stored agri-food products and their management (6)
Mycotoxigenic fungi in agri-food and pesticide contamination: analysis and risk management (6)
Biotechnology and Agronomy for safety and identity preservation of agri-food products (6)

Risk Mitigation Curriculum (Univ. Piacenza)

Mitigation of risk in food production (6)
Emerging risks (6)
Mitigation of process-related toxicants (6)
Food Allergens (6)

Risk Management Curriculum (Univ. Bologna)

Advanced food technology and food process (6)
Advanced and predictive food microbiology (6)
Farm biosecurity and foodborne risk (6)
Risk assessment of food products to human health (6)

PRESENTATION

The Master's Degree Programme in Food Safety and Food Risk Management is an inter-university programme delivered in English and addressed to Italian and foreign students who are interested in deepening their knowledge of food safety assessment and risk management, including the development and implementation of agri-food production safety names. The development of global markets sets important challenges, such as the drafting of international sanitary and phytosanitary agreements and those on technical barriers related to agreements in the WTO (World Trade Organization), which require specialists in the agri-food sector with a high level of knowledge acquired in an advanced study programme aimed at developing multidisciplinary scientific skills, in order to manage present and/or emerging risks in agri-food production, to ensure the sustainability of the sector.

PROGRAMME CONTENTS

The teaching programme includes a first year at the University of Parma to acquire skills in the characteristics and traceability of food and its components, in chemical and microbiological changes as a function of production and transformation processes, and in the study of factors governing the safety of raw materials. The second year is at the University of Modena and Reggio Emilia (Reggio Emilia campus) and provides an exploration of the safety and management of agro-vegetable products, with an emphasis on the assessment, mitigation and management of risk in primary production in a context of global trade, product losses in supply chain processes, microbial and mycotoxinological problems and pesticide residues.

JOB OPPORTUNITIES

Master's graduates in Food Safety and Food Risk Management operate at different levels of the agri-food chain, including the development of appropriate regulations governing the safety and sustainability of production. In international organisations, control bodies, and agri-food companies, master graduates play leadership, coordination and responsibility roles for safety and sustainability management aspects related to production, procurement and handling of raw materials, process control, new product development, marketing and distribution nationally and internationally.

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www.dsv.unimore.it/site/home/didattica/corsi-di-laurea-magistrale.html

cdlm-fsafrm.unipr.it

Master's degree / Life

Integrated Sustainability of Agricultural Systems

Facility: Via Amendola, 2 - Pav.Besta
42122 Reggio Emilia**Duration:** 2 years**Training Credits:** 120**Degree Class:** LM-69 Class of master's degrees in agricultural sciences and technologies**Required qualification:**

Bachelor's degree.

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Agroecology and defence of biodiversity (6)

Business management and development (8)

Herbaceous agro-ecosystems (6)

Arboreal agro-ecosystems (6)

Assisted evolution technologies in agriculture and soil fertility (9)

Integrated Pathogen Defence Approaches (6)

Integrated Pest Management Approaches (6)

Job-oriented soft skills (3)

Electives (6)

SECOND YEAR

Sustainable livestock productions (6)

Technological systems for precision agriculture (7)

Economy and sustainable development of agricultural and rural systems (6)

Post-harvest management of agricultural products (9)

Elective subjects (6)

Additional language skills (3)

Internship (6) and Final examination (21)

PRESENTATION

The Master's Degree programme in Integrated Sustainability of Agricultural Systems aims to provide a solid background in the disciplinary fields that are distinctive of agricultural sciences and technologies. SISTA master's graduates will therefore be able to plan and manage agricultural research and production (qualitative and quantitative) with a broad vision of sustainability, developing and managing the innovation of companies and agricultural supply chains, promoting their development also in a territorial perspective.

PROGRAMME CONTENTS

The programme focuses on sustainable development in agriculture, based on the acquisition of specific functional skills such as: agroecology and biodiversity protection, sustainability of herbaceous and tree agro-ecosystems and livestock production, integrated defence approaches against harmful pathogens and insects, assisted evolution technologies in agriculture and soil fertility treatment, precision agriculture technologies, post-harvesting of agro-vegetable products, business management and economics and sustainable development of agricultural and rural systems. Appropriate professional management skills in terms of dynamic capabilities are acquired through management and soft skills topics, interactive seminars with technicians, managers and experts from the agricultural system, an internship in companies and organisations in the sector, and the production of an application-experimental thesis.

JOB OPPORTUNITIES

Master graduates in Integrated Sus-

tainability of Agricultural Systems are competent and experienced professionals able to drive the evolution of agriculture and its various components (socio-economic-environmental) towards the United Nations' Sustainable Development Goals (SDGs, Agenda 2030). Characteristic features of this "Senior Agronomist" are the approach and the mind-set that make the professional able to address in an integrated and synergistic way the different technical, methodological, environmental and organisational issues, with appropriate interpretation skills and oriented to problem solving. The professional profile thus meets the support and guidance needs of the agricultural world, as it can be employed in a very wide range of options: farm manager, employee of companies supplying goods and services for agriculture, expert/manager of private and public bodies providing services to the agricultural activity, official/manager of agricultural aggregation structures (consortia, producer associations, professional organisations, etc.) or trade associations, manager/manager of processing and first transformation companies, professional farmer, etc. In addition to these professional figures, there are important roles at research and experimentation institutions for agriculture, bodies dedicated to plant protection (phytosanitary services and consortia), Public Administration, Land Reclamation Consortia, Park Authorities, etc., and the figure of consultant (freelance agronomist).

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Master's degree / Technology

Sustainable Industrial Engineering

The programme is taught entirely in English

Facility: via Corbolani
41012 Carpi (MO)

Duration: 2 years

Training Credits: 120

Degree Class: LM-33 Class of
master's degrees in mechanical engineering

Required qualification:
Bachelor's degree.

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR - FIRST SEMESTER

THEORY AND SIMULATION OF INDUSTRIAL FLUID MACHINES (6)

SUSTAINABLE PRODUCT DESIGN (6)

DYNAMICS OF MACHINES (9)

INDUSTRIAL IOT AND ARTIFICIAL INTELLIGENCE (9)

FIRST YEAR - SECOND SEMESTER

ENERGY MANAGEMENT IN INDUSTRY (12)

SUSTAINABLE PROCESS DESIGN (6)

ADVANCED DESIGN APPROACHES FOR

LIGHTWEIGHTING, DURABILITY AND

ALTERNATIVE MATERIALS USE (6)

COMPOSITE MATERIALS AND FIBRES

ENGINEERING (6)

SECOND YEAR - FIRST SEMESTER

SUSTAINABLE MANUFACTURING SYSTEMS (6)

SUSTAINABILITY ASSESSMENT OF INDUSTRIAL PROCESSES (6)

INDUSTRIAL AUTOMATION LAB (12)

SECOND YEAR - SECOND SEMESTER

INDUSTRIAL TRAINEESHIP / DESIGN ACTIVITY (9)

FINAL EXAMINATION (15)

ELECTIVES (to be defined) (12)

PRESENTATION

The Master's Degree Programme (MDP) in Sustainable Industrial Engineering is a new degree programme in the LM-33 class of Master's Degrees in Mechanical Engineering, belonging to the "Enzo Ferrari" Department of Engineering (DIEF) of the University of Modena and Reggio Emilia (Unimore).

This is a master's degree programme aimed in particular at three-year graduates from various industrial degree programmes. The decision to hold all its teaching in English is intended to impart a high degree of internationalisation to the programme itself.

The MDP in Engineering for Industrial Sustainability was born as a result of the investigations carried out in the territory and in the academic field by a Consultation Board and a Technical Scientific Committee, which gathered needs and requests from the local and regional production fabric, and identified the following main characteristics of the MDP and its master's graduates

- Transversal teaching and skills that, on a solid mechanical basis, add elements of IT and management.

- Particular sensitivity to design, innovation and energy and environmental sustainability.

- Involvement of companies throughout the training.

- Practical and laboratory experience as a constant in all teachings of the curriculum.

- Modern teaching methods and company participation: lectures in cooperation with company representatives, seminars on specific topics of company interest, laboratory activities with an industrial focus.

- Soft skills: recent graduates must be able to enter the world of industry not only as high-skilled engineers, but also and above all as people with communication, inter-

personal, managerial and organisational skills.

- Proficiency in written and spoken English.

PROGRAMME CONTENTS

The programme provides an in-depth knowledge of the subjects that are typical of mechanic engineering, aimed at providing essential knowledge and abilities pertaining to the following disciplines that have been identified as distinctive of the programme: fluid machinery, industrial technical physics, machinery applied mechanics, machinery construction, industrial design, mechanic technology and industrial systems;

Other science and engineering teachings with a strong transversal focus in the fields of Industry 4.0, IT and control are also taught: industrial automation, industrial electronics and sensor technology, computer science applied to machine learning, sustainability and energy recovery in the company assisted by the integration of renewable energy sources.

JOB OPPORTUNITIES

Industrial engineer.

President of the Degree Programme

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Master's degree / Technology

Artificial Intelligence Engineering

The programme is taught entirely in English

Facility: Via Pietro Vivarelli, 10
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-32 Class of master's degrees in information technology engineering

Required qualification:
Bachelor's degree.

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

"Artificial Intelligence Engineering - Applications" Curriculum

Machine Learning and Deep Learning (9)
Computer Vision and Cognitive Systems (9)
IoT and 3D Intelligent Systems (9)
AI in Bioinformatics (9)
Smart Robotics (9)

Curriculum "Artificial Intelligence Engineering - Large Scale"

Machine Learning and Deep Learning (9)
Computer Vision and Cognitive Systems (9)
Multimedia Data Processing (9)
Distributed Artificial Intelligence (9)
Scalable AI (9)

2 exams from the other curriculum of the MD in Artificial Intelligence or the MD in Computer Engineering (18)

2 related exams (12)

2 elective exams (18)

Internship / Project Activity (9)

Final examination (18)

PRESENTATION

The Master's Degree Programme in Artificial Intelligence (AI) Engineering completely in English in all subjects aims to train engineers with solid skills in the design of advanced AI systems and services, learning the most innovative technologies to address future technological challenges involving intelligent information systems, people, the environment, industrial production, security and citizen services. It offers two curricula a) AI Applications, b) Large Scale AI.

Both programmes in Artificial Intelligence Engineering start with training on machine learning, deep learning, computer vision and intelligent systems. Then, for the Applications path, we deal with the use and design of robotic systems, objects, and sensors in IoT and the applications of AI in bioinformatics. The Large-Scale programmes ranges from distributed agent systems to multimedia data processing and technologies for AI on supercomputers.

PROGRAMME CONTENTS

The compulsory teachings specifically concern courses in Artificial Intelligence, both theoretical and applied. Each curriculum proposes a group of compulsory courses to be supplemented with subjects selected from the other curriculum and from the Master's Degree in Computer Engineering, with related subjects, and other free choices from the University's offerings. The related teachings provide skills in the fields of discrete mathematics, IT law, network technologies and security in the automotive sector. The thesis requires the student to carry out an internship in external companies or organisations, or a project activity in the Department's

laboratories, also with international collaborations.

JOB OPPORTUNITIES

Master's graduates in Artificial Intelligence Engineering will exhibit expertise in state-of-the-art technologies related to intelligent computer systems and Artificial Intelligence models. The professional fields are those of innovation and development, production, and advanced design, planning and programming, management of complex systems, both in the freelance profession and in-service or manufacturing companies, as well as in public administrations.

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Tutoring delegate

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Master's degree / Technology

Electronic Engineering for Intelligent Vehicles

The programme is taught entirely in English Interuniversity degree programme, jointly with the Universities of Bologna, Ferrara and Parma.

Facility: Parco Area delle Scienze
181/a – University Campus
43124 Parma (PR)

Duration: 2 years

Training Credits: 120

Degree Class: LM-29 Class of master's degrees in electronics engineering

Required qualification:

Bachelor's degree

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR - COMMON PROGRAMME - BOLOGNA

Advanced Automotive Sensors (6)
Hardware-Software Design of Embedded Systems I.C. (12)
Automatic Control (6)
12 CFU among: Power Electronics for Automotive (6), Test, Diagnosis and Reliability (6), Statistical Signal Processing (6)

FIRST YEAR - ECS – BOLOGNA

Signals and systems for vehicular communications (6)
Wired and Wireless Interconnections (9)
6 CFU among: Dynamics and Compliant Design of Road Vehicles (6), Deep Learning for Engineering Applications (6)
3 CFU among: Ground Vehicle Dynamics (3), Lab of Real-Time Operating Systems (3), Connected vehicles (3)

FIRST YEAR - ADE - BOLOGNA

Image Processing and Computer Vision (6)
Vehicular radio propagation (9)
Deep Learning for Engineering Applications (6)

SECOND YEAR - ECS – MODENA

Applied topics in Automotive Electronics (12)
12 CFU among: Artificial Intelligence for Automotive (6), Industrial Co-Teaching (6), Automotive Connectivity (6), Automotive Cyber Security (6), Modeling and Control of Electromechanical Systems (6), Platforms and Algorithms for Autonomous Driving (6)

SECOND YEAR - ADE - PARMA

Electronics and Lighting Technologies for Automotive (12)
Computer Engineering Laboratory (3)
12 CFU among: 3D Perception, Learning-Based Data Fusion (6), Autonomous Driving and ADAS Technologies (6), Visual Perception for Self-Driving Cars (6), Virtual Systems and Human Machine Interface (6),

Path and Trajectory Planning (6), Vehicular Communications (6)

SECOND YEAR - COMMON PROGRAMME - MODENA/PARMA

Electives (12)

Final examination (24) to be chosen from: final examination (24), final examination and internship (24)

PRESENTATION

An electronics engineer working in the automotive world must be able to cope with the challenges of vehicle evolution within a complex high-tech system, based on deep interconnections between mechanics, electronics, telecommunications and information technology. This programme provides a suitable training for a professional profile aimed at the design and development of the main sub-systems that make up road vehicles, with particular reference to the premium and motorsport market, specialising in particular the professional skills in the field of information engineering. The Master's Degree Programme in Electronic Engineering for Intelligent Vehicles (EEIV) is an Interuniversity International programme offered by MUNER - Motorvehicle University of Emilia-Romagna, a project proposed by Regione Emilia-Romagna and that is the result of the collaboration among the Universities of Bologna, Ferrara, Modena and Reggio Emilia, Parma, and the world's most prestigious automotive companies based in the territory: Automobili Lamborghini, Dallara, Ducati, Ferrari, Haas F1 Team, HPE Coxa, Marelli, Maserati, Pagani Automobili, Scuderia Alpha Tauri. The degree programme also distinguishes for offering teachings completely delivered in English and a significant attention to the provision of theoretical and laboratory contents according to a "Learning by Doing" logic. It also offers internships to be taken at the industrial partners and the opportunity to carry out thesis

activities at university and company research laboratories.

PROGRAMME CONTENTS

The EEIV Master's degree programme allows students to deepen their skills by immediately addressing the premium, competition or self-driving car and motorbike segment.

The first year includes initial in-depth studies on training subjects related to electronics applied to vehicles for the future.

From the first year onwards, the Programme is divided into two curricula:

- Electronics and Communications Systems - ECS Bologna and Modena campus): the operating principles and design of the main electronic and telecommunications systems in the automotive sector are studied

- Autonomous Driving Engineering - ADE (Bologna and Parma sites): study of information engineering systems and technologies for the realisation of autonomous driving systems

JOB OPPORTUNITIES

The main employment opportunities envisaged by the master's degree programmes of this class are those of innovation and development of products and processes, advanced design, production planning and scheduling, and management of complex systems in manufacturing or service companies engaged in the design and production of premium, competition or autonomous-drive vehicles and related supply chains, active both nationally and internationally.

Graduates in EEIV can continue their studies by completing their preparation in a Doctoral School, or in an Advanced Master Programme (2nd level).

Master's graduates are also skilled and meet the requirements established by current legislation to carry out the profession of Engineer in the various specialisations governed by the laws of the State within the Professional Order of Engineers, section A, sector C-Information.

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Master's degree / Technology

Advanced Automotive Engineering

The programme is taught entirely in English Interuniversity degree programme, jointly with the Universities of Bologna, Ferrara and Parma. Administrative headquarters at Unimore

Facility: Via Pietro Vivarelli, 10
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-33 Class of master's degrees in mechanical engineering

Required qualification:
Bachelor's degree.

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

First common semester - Modena

Manufacturing and Assembly Technologies / Science and Technology of Metallic and Composite Materials (12)
Mechanical vibrations (6)
Vehicle Conceptual Design (6)

Second semester

Advanced Powertrain - Modena

Internal combustion engines (6)
Engine Components Design and Manufacturing /Automotive Computer Aided Design CAD (12)
Electric Drives/Electric Propulsion Systems (12)

Advanced Powertrain - Bologna

Powertrain Design and Manufacturing (6)
Electronics systems /Automatic controls (12)
Electric Drives / Internal Combustion Engines (12)

High Performance Car Design

CFD fundamentals and aerodynamics (9)
FEM fundamentals and chassis design (9)
Vehicle dynamics (12)
Automotive Computer Aided Design CAD (12)

Racing Car Design

CFD fundamentals and aerodynamics (9)
FEM fundamentals and chassis design (9)
Vehicle dynamics (12)
Automotive Computer Aided Design CAD (6)

Advanced Motorcycle Engineering

Powertrain Design and Manufacturing (6)
Electronics systems /Automatic controls (12)
Electric Drives/Internal Combustion Engines (12)

Advanced Sportscar Manufacturing

Powertrain Design and Manufacturing (6)

Electronics systems /Automatic controls (12)
Electric Drives / Internal Combustion Engines (12)

SECOND YEAR

Advanced Powertrain - Modena

Design and modelling of high performance combustion systems (12)
Mechanical transmissions/Automatic controls (12)
Electromechanical Energy Storage and Conversion (6)
Electives (12)
Thesis (12)
Internship and/or Laboratory (12)

Advanced Powertrain - Bologna

Modeling and Control of Internal Combustion Engines and Hybrid Propulsion Systems (6)
Advanced Combustion/Electric Propulsion systems (12)
Electrochemical Energy Storage and Conversion (6)
Powertrain Testing, Calibration and Homologation (6)
Electives (12)
Thesis (12)
Internship and/or Laboratory (12)

High Performance Car Design

Vehicle NVH testing (6)
Automotive Electronic systems (6)
Automatic controls (6)
Automotive fluid power systems (6)
Electives (12)
Thesis (12)
Internship and/or Laboratory (12)

Racing Car Design

Industrial aerodynamics (6)
Chassis and body design (6)
Dynamic testing of vehicles (6)
Design of racing car composite structures (6)
Electives (12)
Thesis (12)
Internship and/or Laboratory (12)

Advanced Motorcycle Engineering

Modeling and Control of Internal Combustion Engines and Hybrid Propulsion Systems (6)
Motorcycle Vehicle Dynamics (6)
Chassis and Body Design and Manufacturing/Vehicle virtual design (12)
Powertrain Testing, Calibration and Homologation (6)
Electives (12)
Thesis (12)
Internship and/or Laboratory (12)

Advanced Sportscar Manufacturing

Industrial Plants Design (6)
Industrial Robotics (6)
Algorithms and systems for big data processing (6)

Operations & Supply chain design and management/Automotive Manufacturing and assembly systems (12)
Electives (12)
Thesis (12)

Internship and/or Laboratory (12)

PRESENTATION

The Master's Degree programme in Advanced Automotive Engineering is an international inter-university programme supported by MUN-ER - Motorvehicle University of Emilia-Romagna, a project wanted by the Emilia-Romagna Region and born from the collaboration between the Universities of Bologna, Ferrara, Modena, and Reggio Emilia (administrative office of the programme), Parma and the most prestigious automotive companies in the world based in the area: Automobili Lamborghini, Dallara, Ducati, Ferrari, Haas F1 Team, HPE Coxa, Marelli, Maserati, Pagani, Alpha Tauri and, more recently, AVL, Bosch, CNH, Pirelli, ST Microelectronics. The Degree Programme boasts an excellent teaching staff, selected among university professors and professionals of the partner companies, and a rigorous student selection procedure, through which a maximum of 120 applicants are admitted based on a careful assessment of their merits and an entry test. The Degree Programme provides for a broad attendance of the students to workshops organised at the Universities and industrial partners, based on a Learning by Doing approach that focuses on the development of skills by providing practical solutions to engineering issues. Compulsory internships are provided, also aimed at drawing the degree thesis and organised under a Project Working mode, to ensure the development of professional skills and allow graduates to quickly enter the job market.

PROGRAMME CONTENTS

The training programme offers a common first semester for all students, at the University of Modena, aimed at introducing the fundamentals related to the design and production of high-performance vehicles: design approach of the vehicle layout, production processes for the construction and assembly of systems, choice and use of innovative materials, main mechanical effects acting on systems and components. Subsequently, the Programme is divided into six curricula, the contents of which have been defined with the contribution of partner companies, in order to professionalise the students' pathway according to the most advanced labour market requirements:

- Advanced Powertrain (Modena and Bologna campus): the design and control of powertrain systems, both endothermic and electric and hybrid, the main solutions for energy conversion and storage, and powertrain design and production technologies are studied, up to the most advanced engine control and calibration techniques.
- High Performance Car Design (Modena campus): the main aspects of design, vehicle dynamics and NVH (Noise Vibration Harshness), material behaviour, mechanical technology, aerodynamics, thermo-fluid dynamics, automatic controls, electronics and sensors, aerodynamics are studied.
- Racing Car Design (Modena campus and Parma campus from the second year): the main design aspects of the chassis system and architecture of racing vehicles are studied, with particular focus on the use of special materials and solutions, also considering the highly experimental nature of development activities and attention to aerodynamic and performance aspects.
- Advanced Motorcycle Engineer-

ing (Bologna campus): this studies aspects of mechanical engineering, electronics and industrial design typical of high-performance and competition motorbikes, related to design, vibration mechanics, mechanical technology, dynamics, the design of endothermic engines and BEVs, and driver assistance systems.

- Advanced Sportscar Manufacturing (Bologna campus): process engineering for the production of high-performance vehicles, the design of industrial robotic plants and systems, production management and optimisation, the main enabling technologies for the digital factory and quality control process management are studied.

JOB OPPORTUNITIES

The Vehicle Engineer (Advanced Automotive Engineer) is a professional who starts from an industrial-based knowledge and based on an overall vehicle system overview is able to design, develop and manufacture the main subsystems making up road car and motor vehicles, with specific reference to the premium racing vehicle market. Depending on the curriculum chosen, the professional profile of the Advanced Automotive engineer specialises in:

- Advanced Automotive Engineer, expert in powertrain systems. S/he is responsible for designing and collaborating in traditional and innovative powertrain system engineering, focusing on their optimisation, as well as on controlling and solving environmental and energy issues.
- Advanced Automotive Engineer, expert in the architecture of road vehicles. S/he is responsible for setting up and developing the vehicle system, starting with an understanding of the fundamentals, and for designing all major "cold" assemblies and sub-assemblies of high-performance road vehicles.
- Advanced Automotive Engineer,

expert in the architecture of racing vehicles. S/he is responsible for setting up the vehicle system, and designing all main cold units and subunits of racing vehicles. It distinguishes for an increased specialisation in aerodynamic aspects, the use of lightweight materials (Carbon Fibre Reinforced Materials), and a strong ability to perform experimental work.

- Advanced Automotive Engineer, expert in motorvehicles. S/he is responsible for designing and developing high-tech motor vehicles, both standard and racing-specific. The AAE deals with and manages aspects that are typical of electronic engineering and industrial design, specific to motor vehicles.

- Advanced Automotive Engineer, expert in production. He/she is responsible for planning, developing, monitoring and managing processes and productions systems in the automotive field, focusing on the use of the most advanced digital technologies.

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Master's degree / Technology

Electric Vehicle Engineering - Eve

The programme is taught entirely in English Interuniversity degree programme, jointly with the Universities of Bologna, Ferrara and Parma. Administrative headquarters at the University of Bologna.

Facility: Interuniversity - University of Modena and Reggio Emilia · University of Bologna · University of Parma · University of Ferrara
Administrative office: via Zamboni, 30 40126 Bologna

Duration: 2 years

Training Credits: 120

Degree Class: LM-28 Class of master's degrees in electrical engineering

Required qualification:

Bachelor's degree

Access: Limited number, details are provided in the call for applications.

STUDY PLAN

(The number of credits is provided in brackets)

Advanced Electric Drives (6)
Advanced Sensors for Electric Vehicles (6)
Diagnosis and Control (6)
Electromechanical Energy Storage and Conversion(6)
Vehicle Energetics and HVAC Systems (6)
Power Electronics Converters (6)
Electrical Power Systems for Sustainable Mobility (6)
Electric Drivelines (6)
Electromagnetic Compatibility (6)
Automotive Power Circuit Design (6)
Electric Motor Design (6)
Vehicle Conceptual Design + Automotive Connectivity (6)

Electives:

Technologies and Applications of Wireless Power Transfer (6)
Hardware-Software Design of Embedded Systems (6)
Powertrain Design and Manufacturing (6)
Vehicle Dynamics (6)
Laboratory of Business Plan (3)
Final Examination+Internship (24)

PRESENTATION

Electric propulsion is one of the key components of smart mobility. It is recent news that in some countries of Northern Europe the sales of electric cars have exceeded 50% of the total of the registrations while according to ANFIA forecasts, in Italy in 2030 there will be no more pure endothermic cars and already in 2025 the number of pure electric or Plug-In hybrid cars will match the internal combustion cars. It becomes essential to have engineers and researchers able to bring design skills and innovation in a field of enormous development. Figures able to address specific issues such as the electric Powertrain project, the accumulation and management of electricity on board but also issues such as the auto-grid interface and the interconnection between vehicles.

The EVE Degree Programme is aimed at training these professional figures.

PROGRAMME CONTENTS

Engineers in Electric Vehicle Engineering will be focused and skilled in the main subsystems making up an electric driveline, including:

- battery charger: OBC - On Board Charger, fast charger, network connection
 - drive - traction
 - energy storage system
 - HVAC - thermal air-conditioning system
 - Auxiliaries: CC/CC converters, wiring
 - Sensors for pure electric vehicles and Plug-In Hybrids
- For the different subsystems and the integrated system, the EVE engineer will deal with the following issues:
- Control algorithms
 - Thermal management
 - Electric safety
 - Failure modes, reliability, quality,

monitoring and diagnostics

- Electrical, mechanical, functional interfacing
 - System setting and integration
- S/he will have in-depth knowledge in the field of electromagnetic compatibility, testing and reliability of electric systems: interference and technical issues for its reduction, failures, testing and failure simulation techniques, reliability and the methods to ensure it.

JOB OPPORTUNITIES

The training programme in Electric Vehicle Engineering will provide graduates with adequate skills to analyse and design complex electric components and systems dedicated to electric and electromechanical conversion of energy with specific focus on the electric traction sector.

They will be able to identify, formulate, and solve issues by means of up-to-date methods, techniques and tools in the field of industrial engineering in general; process original and highly innovative solutions within electric systems, machines, and drives in advanced research contexts or in cutting-edge sectors of e-vehicle engineering, thus contributing to the transfer of know-how and technology needed for the implementation of new functions inside new-concept vehicles.

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Master's degree / Technology

Electronics Engineering

The programme is taught entirely in English Double degree with the Universidad Tecnológica de Paraná (Brazil).

Facility: Via Pietro Vivarelli, 10
41125 Modena
Duration: 2 years
Training Credits: 120
Degree Class: LM-29 Class of
master's degrees in electronics engi-
neering

Required qualification:
Bachelor's degree

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

Electron Devices and Components (9)
Techniques and Systems for Digital Com-
munications (9)
Embedded Systems Design (6)
Analog and Mixed Signal Circuit Design (9)
Photonics and Microwaves (9)
System and Control Theory (6)
Final examination (15)

Curriculum "Industrial Automation"

Power Electronics (9)
Reliability and Safety for Industrial Applica-
tions (6)
Modeling and Control of Electromechanical
Systems (6)
Industrial Measurements (6)
High Performance Electric Drives and Lab-
oratory (12)

"Smart Connected Systems" Curriculum

Nanoelectronics and Bioelectronics (6)
Advanced Photonics (6)
Instrumentation and Measurement Methods
(9)
Networked Control Systems (6)
Networking Technologies and Protocols (9)
Learning Algorithms for Smart Connected
Systems (6)

Electives (15):

Technologies of Network Infrastructures (6)
Biomedical Instrumentation and Measure-
ments (6)
Industrial Co-Teaching (6)
Internship (9)

PRESENTATION

Today it is very difficult to think of any machine, system or instrument that does not contain electronic components, but it is even more difficult to think about our life without the use of a "digital prosthesis" (the smartphone, for example, or "Inter-net of Things").

Enrolling in the Master's Degree Programme in Electronic Engineer-
ing means training for high-level ca-
reers in the industry, service, or re-
search sectors in Italy and abroad.

The degree programme in Elec-
tronics Engineering aims to train
Master graduates both for the sec-
tor of industrial automation, and for
the sector of new "smart and con-
nected" technologies, by offering a
study programme divided into two
curricula: 1) Industrial Automation 2)
Smart Connected Systems.

PROGRAMME CONTENTS

The Degree Programme allows stu-
dents to further explore their gener-
al and specific engineering skills in
one of the two curricula: "Industrial
Automation" and "Smart and Con-
nected Systems". Students may
also choose additional teachings on
aspects they are interested in, by at-
tending courses linked to the most
innovative research. Classes are
held in English and give students the
opportunity to learn the technical
jargon required for an easy access
to the job market and international
research. The final examination is
an important experimental or de-
sign activity also developed jointly
with international companies and
research centres. The preparation
that our students get is renowned
for being a high-quality one: many
engineers who have graduated in
this Master's Programme now work
for important European and US
companies and centres.

JOB OPPORTUNITIES

At the end of the study programme,
students become Electronic En-
gineers, trained to design com-
plex electronic systems, advanced
components and circuits. The typ-
ical professional fields are those of
innovation and development, ad-
vanced design, and management
and control of electronic systems.
Graduates may find a job in com-
panies operating in the design and
manufacturing of components, cir-
cuits and electronic systems, man-
ufacturing industries, automation
and automotive industries, public
administration sectors, and service
companies. In addition, graduates
can continue their studies with Ad-
vanced Master Programme (2nd
level) and / or PhD Programmes,
especially in the ICT area. There is
also the possibility of participating
in the Double Degree programme
with the Federal Technological Uni-
versity of Paraná (Brazil) to obtain a
Master's degree valid in both Italy
and Brazil.

President of the Degree Pro- gramme

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Master's degree / Technology

Civil and Environmental Engineering

Joint degree with the University of the Republic of San Marino.

Facility: Via Pietro Vivarelli, 10
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-23 Class of master's degrees in civil engineering
LM-35 Class of master's degrees in engineering for the environment and the territory

Required qualification:

Bachelor's degree

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Students can choose to obtain the title either in the LM-23 (Civil Engineering) or in the LM-35 class (Environmental and Territory Engineering). The choice is made by the end of the first year. The Master's Degree includes four curricula, with common compulsory teachings and specific compulsory teachings for the different curricula. In addition, students are required to include elective teaching for a total of 12-15 ECTS credits.

Common teachings:

Water Resources Engineering (9)
Seismic and contaminated sites risk (12-15)
Prospecting for Geotechnical Systems (6)

Specific teachings of the Curriculum in

Structure and Infrastructure Design:
Continuum Mechanics (6)
Theory of Structures (9)
Seismic Engineering (6)
Computational Mechanics (9)
Precision surveying and deformation monitoring, BIM and GIS (12)
Bridges (6)
Structures Projects (6)

One elective teaching to be chosen from:
Thermotechnical systems (6)
or Energy Management (6)

Specific teachings of the Curriculum in

Water Resource Management:
Continuum Mechanics (6)
Aqueducts and sewers (9)
Energy Sustainability and Renewable Sources (6)
Seismic Engineering (6)
Computational Hydrology (9)
Dams and Reservoirs (6)
Applied Geomatics, BIM and GIS (12)

Specific teachings of the Curriculum in

Environmental Sustainability:

Waste Treatment Plant Technologies (6)
Pollutant Chemistry and Environmental Impact Control Instruments (6)
Air Quality and Pollutant Dynamics (15)
Applied Geomatics, BIM and GIS (12)
Sustainable Design and Planning (6)

One elective teaching to be chosen from:

Aqueducts and sewers (6)
Geophysical surveys for engineering (6)

One elective teaching to be chosen from:

Environmental Reactors (6)
Environmental Remote Sensing (6)
Chemical Technologies for Waste Treatment (6)

Specific teachings of the Energy Sustainability Curriculum:

Waste Treatment Plant Technologies (6)
Georesources and Geoenery (6)
Energy Sustainability and Renewable Sources (6)
Air Quality and Pollutant Dynamics (15)
Applied Geomatics, BIM and GIS (12)
Sustainable Design and Planning (6)

One elective teaching to be chosen from:

Fuel Cells (6)
Thermotechnical systems (6)
Energy management (6)

All curricula include:

Final examination (9)
Internship / project activity (12)
Elective courses (12-15)

PRESENTATION

The Master's Degree Programme in Civil and Environmental Engineering pays special attention to the multi-disciplinary nature of classical and emerging engineering topics relating to the environment and climate, land, structures and infrastructure, waste management and energy issues. It trains an engineer with a solid technical-scientific background, able to operate in innovative professional contexts and to play an active role in project phases and decision-making processes.

PROGRAMME CONTENTS

The Curriculum in Design of Structures and Infrastructures addresses the design, execution, maintenance and verification of structures and in-

frastructures, either new or existing, with respect to structural safety, seismic resistance, elastic instability, restoration and consolidation, resistance to fire, using advanced predictive and diagnostic simulation systems.

The Water Resources Management Curriculum deepens the themes of Hydraulics, Hydrology and Hydraulic Construction in order to identify the most advantageous structural and non-structural strategies of water use and mitigation of flood risk, in an urban and rural environment.

The Environmental Sustainability Curriculum focuses on physical and chemical technologies of waste treatment plants, remediation of contaminated land, air quality, assessment of the impact and environmental sustainability of projects of civil works and installations and urban plans, geophysics of the sub-soil.

The Energy Sustainability Curriculum offers specific content in the energy field, concerning the resources of the planet that can be used for energy, energy production technologies from renewable sources, energy saving performance of the buildings obtained, the design of heating installations and the certification and energy of buildings.

The Degree Programme encourages study abroad through the Erasmus programme, the Erasmus+ agreements, the Erasmus + programme for Traineeship, the Moreoverseas programme (also in non-European countries) and the Vulcanus project (Japan). They can also perform periods in Asian countries such as China and Vietnam, obtaining very significant training experiences.

JOB OPPORTUNITIES

Master graduates in Civil and Environmental Engineering easily enter the job market. The employment rate at three years after graduation is 100%, higher than the national average (89%) with average pay of about 1500 Euro, higher than the national rate for the same type of Master's degree programmes. Graduates are also eligible for selection for the PhD programme in Industrial and Environmental Engineering, or other national or international PhD programmes. During the PhD Programme, students develop their aptitude for scientific and technological research, international scientific cooperation, interaction with the industrial and economic district.

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Materials Engineering

Facility: Via Pietro Vivarelli, 10
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-53 Class of master's degrees in materials science and engineering

Required qualification:
Bachelor's degree

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Instrumental Characterisation of Materials (12)

Physics of Materials (9)

Advanced Materials and Systems Design (6)

Science and Engineering of the Ceramic Process (9)

Plastics Science and Technology (9)

Metallic Materials Technology (6)

SECOND YEAR

Surface and Cover Engineering (6)

Integrated Production Management Systems (6)

Mechanical Technology for Machining Systems (9)

Specific teachings of the curriculum chosen (12)

Electives (12)

Internship / Project activity (12)

Final examination (12)

PRESENTATION

The material engineer is an industrial engineer able to select the materials and the processes suitable for the involved application, to design and make new materials, and to predict and simulate their behaviour. It is a highly requested professional role, as it is increasingly clear that the future relies on the development of new materials. Graduates in Mechanical Engineering at the University of Modena and Reggio Emilia have access to the Master's Degree Programme in Material Engineering with no educational debits. As regards the other students with a bachelor's degree, a specific Board decides whether there is the need for any study programme integrations.

PROGRAMME CONTENTS

The Master's Degree Programme in Material Engineering deals with the manufacturing processes and technologies of the main classes of materials (ceramics, glass, metal, polymers, and composites), trains students to predict their behaviour when used and define their reaction to external stresses (mechanic, thermal, chemical). During the training programme, students also further explore the chemistry and physics of the solid state, which are distinctive subjects of material science and engineering. Furthermore, through laboratory activities aimed at the use of experimental methods and modelling approaches, specific capabilities for characterisation and design of materials and selection of materials and processing technologies based on the application are developed.

JOB OPPORTUNITIES

The materials engineer is an industrial engineer with the skills required

to work in a company as a researcher and developer of innovation products and processes. His/her knowledge ranges from the correct use of the raw materials available to the rational use of energy resources for a careful evaluation of the impact that manufacturing activities have on the environment. The Materials Engineer can also work as part of a research team for the development of advanced materials or new materials transformation technologies, as well as carry out consultancy activities in the field of materials production, application, and behaviour.

President of the Degree Programme

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Vehicle Engineering

Facility: Via Pietro Vivarelli, 10
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-33 Class of
master's degrees in mechanical engineering

Required qualification:

Bachelor's degree. Minimum graduation mark: 90/110

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Numerical Methods for Engineering (9)

Automated controls (9)

Vehicle Aerodynamics and Thermal Management (9)

Powerunit / Internal Combustion Engines (6)

Vehicle Mechanics (6)

POWERTRAIN CURRICULUM

Electric drives (6)

VEHICLE SYSTEM CURRICULUM

Automotive Electronic systems (6)

SECOND YEAR

Common to both CURRICULA

Design methods (9)

POWERTRAIN CURRICULUM

Engine Structural Design (9)

Vibration Mechanics - NVH (6)

Fluid dynamic simulation of engines (9)

Powertrain Testing, Calibration and Homologation (6)

VEHICLE SYSTEM CURRICULUM

Chassis Design (9)

Vehicle Dynamics (9)

Automotive thermal control (6)

Simulation of components and hydraulic systems for vehicle applications (6)

Internship / Project Activity (9)

Final examination (15)

Elective teachings (12):

Agricultural machines (6)

Electrochemical Energy Conversion (6)

Industrial Management and Logistics (6)

Air pollution from vehicular emissions (6)

Composite materials (6)

Additive manufacturing (6)

Automotive Construction (6)

Formula Student / Moto Student (6/15)

PRESENTATION

Those who enrol in the Master's Degree programme in Vehicle Engineering specialise their training in the Automotive sector and have the concrete opportunity to meet prestigious industrial companies in the area and beyond operating in the field of land vehicles. Encounters with these realities are structured within the framework of courses, training placements and attendance of the department's research laboratories. Most students of this programme come from other Universities, this being evidence of the fact that its training activities are highly attractive.

The degree programme is divided into two curricula:

POWERTRAIN CURRICULUM for a specialisation in propulsion systems.

VEHICLE SYSTEM CURRICULUM for a specialisation in the vehicle body and chassis.

PROGRAMME CONTENTS

The specific teachings of the Master's Degree Programme in Vehicle Engineering cover the design and development of powertrains, thermal, hybrid, electric and fuel cell engines, the study of the dynamic behaviour of vehicles and their external aerodynamics, structural and fluid-dynamic calculation techniques of components. Programme training also includes teachings on numerical analysis, automated controls, and heat management. The programme promotes the participation of students in Learning-by-Doing, Formula Student and Moto Student projects, or international competitions in which students of Engineering from all over the world are called to design and build prototypes of vehicles, and to compete with them, in which the University of Modena and Reggio Emilia has won

numerous awards in recent years.

JOB OPPORTUNITIES

At the end of the programme, students become highly qualified engineers in the automotive sector, with designing skills that may also be used in the other mechanic industry fields. More specifically, the professional skills of master graduates in Vehicle Engineering are aimed at achieving employment opportunities in mechanic industries operating in the manufacturing of cars, motor vehicles, earth moving machines and construction machinery, industrial vehicle in general and their components, subsystems and installations. Graduates will also be able to take on professional roles as well as undertake entrepreneurial activities.

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Computer Engineering

Facility: Via Pietro Vivarelli, 10
41125 Modena

Duration: 2 years

Training Credits: 120

Degree Class: LM-32 Class of master's degrees in information technology engineering

Required qualification:
Bachelor's degree.

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

"Cloud and Cybersecurity" curriculum

Operating Systems Design (9)

Real-time Embedded Systems (eng)(9)

Cyber Security (9)

Cloud Systems and Applications (9)

Distributed Edge Programming (9)

"Data Engineering and Analytics" curriculum

Software Design (9)

Big Data and Text Analysis (9)

Graph Analysis (9)

Big Data Management and Governance (eng)(9)

Business Intelligence (9)

2 exams from the other curriculum of the MD in Computer Engineering or the MD in Artificial Intelligence (18)

2 related exams (12)

2 elective exams (18)

Internship / Project Activity (9)

Final examination (18)

PRESENTATION

The Master's Degree programme in Computer Engineering is divided into two paths: Cloud and Cybersecurity, Data Engineering and Analytics. At least one teaching per path is delivered in English. The Cloud and Cybersecurity programme is oriented towards the study and development of secure systems connected to the network. It deals with issues ranging from the management and security of computer networks to operating systems, from the development of applications for distributed and edge platforms, to the design of embedded and real-time systems.

The Data Engineering and Analytics programme trains experienced professionals in the management, manipulation, and analysis of large amounts of data. The topics covered range from software design to business intelligence, from the management and analysis of big data to the analysis of texts and graphs, such as social networks.

PROGRAMME CONTENTS

Each programme proposes a set of compulsory subjects to be completed with subjects selected from the other curriculum, from the Master's Degree in Artificial Intelligence, with related subjects, and other free choices from the University's offerings. The related teachings provide skills in the fields of discrete mathematics, IT law, network technologies and security in the automotive sector. The drafting of the thesis requires the student to carry out an internship in companies or external bodies, or a project activity within the Department.

JOB OPPORTUNITIES

Graduates in Computer Engineering are skilled to analyse, design and manage complex and innovative IT systems, and may apply for management and responsibility roles. The professional fields are those of innovation and development, production, and advanced design, planning and programming, management of complex systems, both in the freelance profession and in-service or manufacturing companies, as well as in public administrations.

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Mechanical Engineering

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Duration: 2 years

Training Credits: 120

Degree Class: LM-33 Class of master's degrees in mechanical engineering

Required qualification:
Bachelor's degree.

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

The Master's Degree in Mechanical Engineering is divided into two curricula: Mechanical Design curriculum and Industrial Process curriculum. The Mechanical Design curriculum trains engineers with specific skills in product design, the Industrial Process curriculum trains engineers with specific skills in manufacturing processes.

FIRST YEAR

Common to both curricula:

Structural design (9)

Electric drives (9)

Fundamentals of automatics (6)

Mechanical Design Curriculum

Multibody dynamics (12)

Oil Hydraulics (9)

Numerical optimisation methods (6)

Industrial Process Curriculum

Prognostics and predictive maintenance (9)

Assisted Production (6)

Hydraulic systems (6)

SECOND YEAR

Mechanical Design Curriculum

Computer-based integrated design (9)

TQM-Oriented Design (9)

Additive manufacturing (6)

Thermofluid dynamics (6)

Project management (6)

Industrial Process Curriculum

Industrial plant management (12)

Innovative technologies and process control (6)

Human machine interaction and virtual reality (6)

Energy efficiency (9)

Industrial Computer Science (6)

Common to both curricula:

Final examination (15)

Internship / Project Activity (9)

Electives, for both curricula (12):

Corrosion and protection of metallic materials (6)

Simulation of components and hydraulic systems for vehicle applications (6)

Integrated production management systems (6)

Vibration Mechanics - NVH (6)

Plastics Science and Technology (6)

Mechanical technology for processing systems (6)

Composite materials (6)

Industrial Management and Logistics (6)

PRESENTATION

Students enrolling in the Master's Degree Programme in Mechanic Engineering want to deepen their engineering preparation, keeping a cross-cutting approach and interdisciplinary connotation that have always made the qualification spendable in the most varied sectors of the manufacturing industry. The programme is strictly linked to the companies in the territory, which have a strong vocation in mechanics, and to which master graduates have easy access.

PROGRAMME CONTENTS

The cultural skills of Master Graduates in Mechanic Engineering is enriched with the knowledge of the most recent design methods in the following sectors: mechanic technology, machine dynamics, machine construction, hydraulics, industrial plant engineering, energy and automation. Students will use dedicated software tools that are also commonly applied in the industrial sector. In addition to the traditional classroom and laboratory activities, students have the opportunity to participate in the prestigious "Formula Student" competition, open to Engineering students all over the world, in which they are asked to design and construct a single-seater vehicle.

struct a single-seater vehicle.

JOB OPPORTUNITIES

Master graduates in Mechanical Engineering have several employment opportunities in almost all industrial sectors. Master graduates in Mechanical Engineering are able to perform and manage activities such as the design, development, manufacturing, installation and maintenance of production lines and departments. They are also offered high-level positions in manufacturing and service companies, as well as in public administrations operating in the mechanical, plant engineering, automation, robotics and hydraulics fields. They may also work as independent Engineers in the various specialisations that are governed by the State law within the Professional Association of Engineers.

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Master's degree / Technology

Digital Automation Engineering

The programme is taught entirely in English

Facility: Via Amendola, 2 - Pav.

Buccola-Bisi
42122 Reggio Emilia

Duration: 2 years

Training Credits: 120

Degree Class: LM-25 Class of master's degrees in automation engineering

Required qualification:

Bachelor's degree

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Advanced probability and statistical methods for engineering (6)
Optimisation Methods for Data-driven Engineering Processes (6)
Artificial Intelligence and Data Science (12)
Industrial and Collaborative Robotics (12)
Advanced electric drives and power converters systems (12)
Multibody simulation and experimental modal analysis (12)

SECOND YEAR

Advanced design and management of automated plants (6)

"Digital Infrastructure" curriculum

Distributed control systems (6)
Distributed and internet of things software architectures (6)
Smart systems for data acquisition (6)
High performance computing for advanced physical analysis (6)

"Digital Design" curriculum

Multi physics flow modelling (6)
Computational thermo-fluid dynamics (6)
Digital multiphysics simulation for machine design (6)
Product design and digital development (6)

"Digital Manufacturing" curriculum

Virtual solutions for smart manufacturing (6)
Material design and optimisation in digital manufacturing (6)
Organizing for digital transformation (6)
Sustainability & digital transformation (6)

PRESENTATION

The study programme aims to train experienced professionals in digital automation engineering, capable of mastering, from both a theoretical and a practical point of view, the mathematical, computer and technical tools of the main disciplines governing automation processes in a digital context, enabling graduates to design, implement and manage automated systems and digital infrastructures.

PROGRAMME CONTENTS

The programme, taught entirely in English, is structured in the first year in a common path and in the second year in three competence profiles: "Digital Infrastructure", "Digital Design" and "Digital Manufacturing". The common path provides preparation on the fundamental aspects of digital automation such as statistics and optimisation, artificial intelligence and data science, as well as the implementation and control aspects of robotics. The three competence profiles decline digital automation engineering in specific contexts, such as digital infrastructure management, digital design techniques, and digitalisation of production systems.

JOB OPPORTUNITIES

Graduates in Digital Automation Engineering will be able to manage the rapid evolution of technologies characterising automation engineering, to address digital automation applications in Industry 4.0 scenarios and, in addition, to work in groups on complex and multidisciplinary projects. The study programme provides the skills to be able to face the challenges and opportunities of the digital revolution, based on the use of mathematical, IT and technical tools of the various

disciplines explored. These skills create numerous employment opportunities, in design studios, consulting firms, and companies at the forefront of the development and use of digital systems, both in the production and service sectors, and in the analysis and manipulation of large numbers of data.

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Management Engineering

Facility: Via Amendola, 2 - Pav.
Buccola-Bisi
42122 Reggio Emilia

Duration: 2 years

Training Credits: 120

Degree Class: LM-31 Class of master's degrees in management engineering

Required qualification:

Bachelor's degree

Access: Unlimited

Conversion of energy from renewable sources (9)
Energy analysis and management of industrial buildings (6)

"Production-Goods and services" curriculum

Quality and safety management of industrial plants (9)
Integrated Processing Systems (6)
Sustainability of products and processes (6)

Electives (9)
Internship (3)
Final examination (15)

ufacturing - Goods and services.

JOB OPPORTUNITIES

Master graduates in Management Engineering naturally find employment in companies and activity areas with critical management and technological issues, where innovation normally plays an important role. Graduates also find suitable roles in the field of industrial system and production system design, production management and material procurement, logistics, business organisation, management control systems, and design of information systems supporting production and/or service provision activities. The programme allows graduates to register in professional and trade associations in the industrial and information fields.

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Performance Management Systems (6)
Models for the optimisation of logistics and production (12)
Integrated Logistics Systems (9)
Software engineering (9)
Management of Organisational Processes and Change (9)

"ICT-Data management" curriculum
Data science and management (9)

"ICT-Digital and creative industries" curriculum
Digital Systems Control (6)

"Production-Energy" curriculum
Energy systems (9)

"Production-Goods and services" curriculum
Technology of materials and production processes (9)

SECOND YEAR

Advanced Manufacturing Systems Design and Management (9)
Project and innovation management (9)

"ICT-Data management" curriculum
Decision support models and methods 2 (9)
Regulatory tools for the analysis of the organisational structure, security and business risk management (6)
Pervasive computing and cloud services (9)

"ICT-Digital and creative industries" curriculum
Industrial and Collaborative Robotics (9)
Web technologies and internet of things (6)
Materials for the digital and creative industry (9)

"Production-Energy" curriculum
Service plant design and management (6)

PRESENTATION

The Master's Degree Programme in Management Engineering aims to train professional figures able to combine technological with management skills, in order to deal with complex interdisciplinary issues.

PROGRAMME CONTENTS

The training objectives of the Master's Degree Programme in Management Engineering are reached through a study programme that provides for most teachings in common - distinctive of Management Engineering (Economic and Management Engineering, Technologies and processing systems, Mechanical and Automated industrial systems) - and, together with the teachings relating to models for decision management and to systems for information management, allow students to gain advanced analytic, decision-making, and design skills in the sector of management and production, and information flows. In addition to this shared set of teachings, students will be free to select training programmes aimed at exploring their knowledge in specific fields of management, industrial or information engineering. In particular, four programmes are available: 1) ICT-Data management, 2) ICT-Digital and creative industries, 3) Production-Energy, 4) Man-

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Mechatronic Engineering

Facility: Via Amendola, 2 - Pav.

Buccola-Bisi
42122 Reggio Emilia

Duration: 2 years

Training Credits: 120

Degree Class: LM-33 Class of master's degrees in mechanical engineering

Required qualification:

Bachelor's degree

Access: Unlimited

STUDY PLAN

(The number of credits is provided in brackets)

FIRST YEAR

Complements of kinematics and machine dynamics (12)
Industrial Analog Electronics (9)
Control of mechatronic systems (6)
Mechanical Aided Design (9)
Engineering Methods (12)

"SMART-Product" curriculum

Control of systems and industrial machines (9)

Static energy conversion (6)

"Factory of the future" curriculum

Industrial Hydraulic Systems (9)

Special Technologies (6)

SECOND YEAR

Control of industrial robotic systems (6)
Embedded Systems (12)

"SMART-Product" curriculum

Product Design and Development (6)

Mechatronic Systems Diagnostics (6)

"Factory of the future" curriculum

Automated Production Systems (6)

Industrial fluid dynamics simulation (6)

Electives (9)

Internship (3)

Final examination (15)

PRESENTATION

In the Master's Degree Programme in Mechatronic Engineering, the distinctive teachings of Mechanic Engineering complete with teachings of Information Engineering so that graduates will have an interdisciplinary and innovative professional training. The objective is to train two technical professional figures able to design and develop systems featuring an integration of mechanic, electronic and IT components, that for their nature must be designed and developed by applying synergies.

PROGRAMME CONTENTS

The study programme of the Master's Degree in Mechatronic Engineering is the natural extension of the Bachelor's Degree in Mechatronic Engineering, that is therefore supplemented by adding new training contents relating to the integration of mechanic and electronic systems in complex devices and machinery. The Master's Degree Programme aims to provide the skills required to design a mechatronic system using a general view of the whole, integrated in its parts. In order to implement this system approach, the training programme includes courses in different sectors of mechanics and mechatronics, along with application experiences developed in research laboratories and internships. The degree programme is divided into two curricula: 1) Smart product, 2) Factory of the future.

JOB OPPORTUNITIES

The major employment opportunities are in the fields of innovation, as well as design, planning of production systems, machinery and devices, both as self-professionals and employed in manufacturing and

service companies, and in public administration. In particular, graduates in Mechatronics Engineering will find their ideal career with mechanical companies that design and manufacture machinery and systems with integrated electronic devices, such as electromechanical and electronic companies involved in the design and production of monitoring systems and devices for mechanical machines and systems. The programme also enables graduates to register in professional and trade associations in the industrial and information fields. Employment opportunities are excellent. According to Almalaurea statistics, 100% of graduates are employed one year after graduating.

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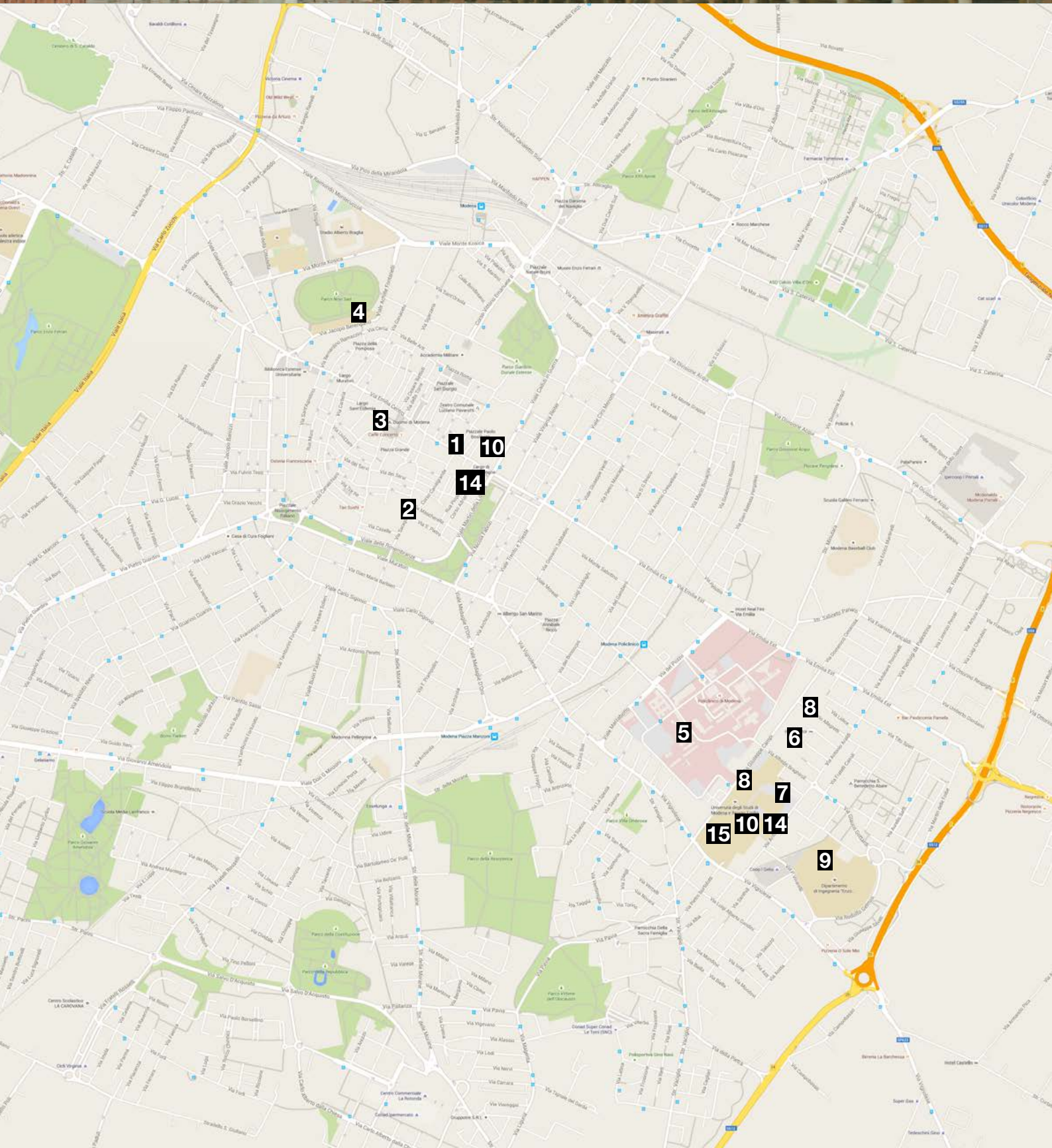
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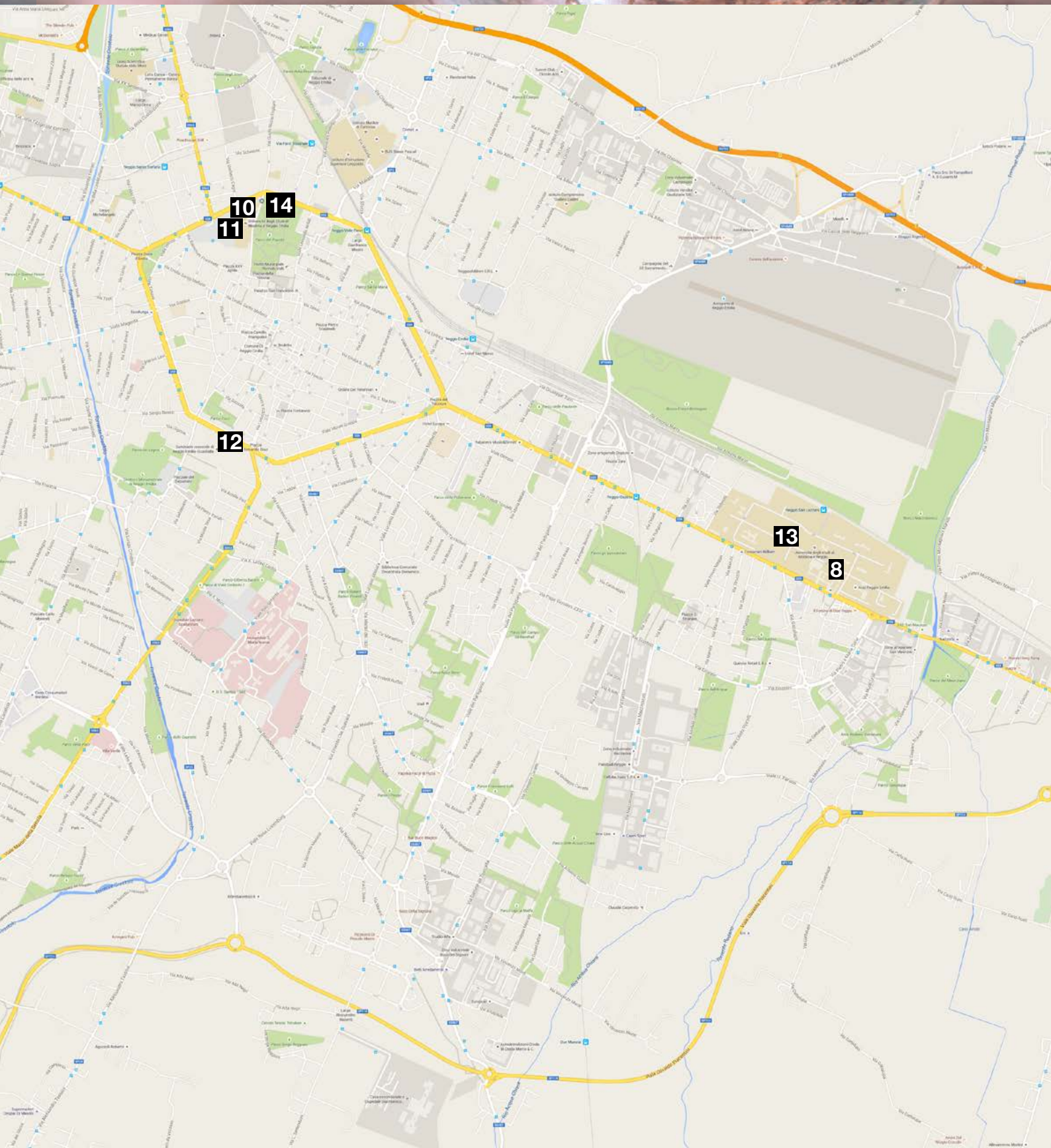


Modena

Credits: Lorenzo Federici



Reggio Emilia



Key

SOCIETY AND CULTURE

11. Department of Communication and Economics

viale Antonio Allegri, 9 - 42121 Reggio Emilia

4. “Marco Biagi” Department of Economics

viale Jacopo Berengario, 51 - 41121 Modena

12. Department of Education and Human Sciences

viale Timavo 93 - 42121 Reggio Emilia

2. Law Department

via San Geminiano, 3 - 41121 Modena

3. Department of Studies on Language and Culture

largo Sant'Eufemia, 19 - 41121 Modena

HEALTH

5. Department of Medicine and Surgery

via del Pozzo, 71 - 41124 Modena

5. Surgical, Medical, Dental and Morphological Sciences Department with Transplantology, Oncology and Regenerative Medicine Interest

via del Pozzo, 71 - 41124 Modena

5. Department of Diagnostic Medicine, Clinical and Public Health

via del Pozzo, 71 - 41124 Modena

15. Department of Biomedical, Metabolic and Neural Science

via Giuseppe Campi, 287 - 41125 Modena

5. Medical and Surgical Sciences of the Mother, Children, and Adults

via del Pozzo, 71 - 41124 Modena

SCIENCE

6. Department of Chemical and Geological Sciences

via Giuseppe Campi, 103 - 41125 Modena

7. Department of Physical, Computer and Mathematical Sciences

via Giuseppe Campi, 213/a - 41125 Modena

LIFE

8. Department of Life Sciences

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TECHNOLOGY

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13. Department of Sciences and Methods for Engineering

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RECTORATE AND SERVICES

1. Rectorate

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10. Registrar's Offices

via Università, 4 - 41121 Modena

via Giuseppe Campi, 213/b - 41125 Modena

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11. Informastudenti - Guidance

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A full-page photograph of two young women standing in a modern building's courtyard. The woman on the left has curly hair, wears a blue and white striped shirt, light blue jeans, and dark sneakers. The woman on the right has long dark hair, wears a light beige top, black pants, and white sneakers. They are both smiling at the camera. The background shows a curved building with large windows and a stone-paved ground. A person is visible in the distance on the left.

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S-Secretariats and relations with students

The Registrar's Offices receive in person and remotely. Locations, reception arrangements and opening hours can be found at www.unimore.it/servizistudenti/segreteriestudenti.html.

Summer closure: 14 to 18 August 2023

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segrstud.facoltadimedicinaechirurgia@unimore.it

Psychological Sciences and Techniques

viale Antonio Allegri, 15 - 42121 Reggio Emilia
tel. 0522 522204
segrstud.psicologia@unimore.it

Medical specialisation schools

via Giuseppe Campi, 213/b - 41125 Modena

S-Secretariats and relations with students

tel. 059 2055634/5630
segr.scuole@unimore.it

PhD Office

Via Università 4, 41121 Modena
Tel. 059/2056423
E-mail: segr.dottorati@unimore.it

State examination office

Via Università 4, 41121 Modena
Tel. 059/2056423
E-mail: esamidistato@unimore.it

Teacher training office

Via Università 4, 41121 Modena
Tel. 059/2056097
E-mail: formazioneinsegnanti@unimore.it

Student Relations Services

Office for Study and Tutoring Counselling

www.orientamento.unimore.it
orientamento@unimore.it
tutorato@unimore.it

InformaStudenti
informastudenti@unimore.it

Welcome Office for Students with Disabilities and Specific Learning Disorders

Via Vignolese, 671/1 - 41124 Modena
Tel. 059 2058311
disabilita@unimore.it - for disabled students, Modena
dsa@unimore.it - for students with SLDs, Modena
ausili@unimore.it - to request and collect aids

Via Allegri, 13 - 42121 Reggio Emilia
Tel. 0522 523506
servizioaccoglienza.re@unimore.it - for disabled students, Reggio Emilia
dsa.re@unimore.it - for students with SLDs, Reggio Emilia campus

ausili@unimore.it - to request and collect aids
The office receives in face-to-face and remote mode: you can book an online appointment at www.easyacademy.unimore.it/portalePlanning/UNIMORE-SERVIZI/index.php

Office for Benefits and Student Collaborations

via Università, 4 - 41121 Modena
tel. 059 2057090 (benefits)
tel. 059 2056542 (student collaboration)
servizi.studenti@unimore.it
collaborazioni.studenti@unimore.it
The Benefits Office and the Student Collaboration Office receive in face-to-face and remote mode with or without a reservation.

Locations, reception arrangements and opening hours can be found at
www.unimore.it/servizistudenti/segreteriestudenti.html

International Welcome Desk

internationalwelcomedesk@unimore.it

www.international.unimore.it/wdesk.html

Online services

via San Geminiano, 3 - 41121 Modena
viale Antonio Allegri, 15 - 42121 Reggio Emilia
www.isu-services.it/it/universities/universita-di-modena

International Relations Office

via Università, 4 - 41121 Modena
viale Antonio Allegri, 15 - 42121 Reggio Emilia
studentmobility@unimore.it

www.unimore.it/mobilita

University Library System - SBA

www.sba.unimore.it
sba@unimore.it

This University has long been engaged in a major awareness-raising effort to fight gender stereotypes. It was decided to give greater linguistic visibility to differences. Where masculine is used for simplification purposes only in this document, the form shall be understood to refer in an inclusive manner to all persons operating within the community.









www.unimore.it

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