Unimore Guide
2022/2023
The Academic Year 2022/2023 will continue to see us witnessing major changes and innovations: more than two years after the start of the pandemic emergency that has affected the entire planet, we are working as a whole University to manage the great potential we have developed and deal with the extreme difficulties caused by the pandemic context within a long-term perspective, to preserve the knowledge and skills acquired so far. Despite these difficult times, Unimore is strongly committed to renewing its mission, which, since 1175, has made it a place of knowledge, maintaining intact and, indeed, expanding its educational offerings, designed and conceived based on a university model that reflects the demanding tasks of higher education and research that we are aiming for with the approval of the Six-Year Strategic Plan.

We want to train people to become increasingly aware of the challenges of sustainability and inclusivity, and increasingly able to critically interact with the best skills and ideas and to help design and implement concrete actions for a better society. Our training offer is consistent with the call for a multidisciplinary university, which supports the valorisation of cross-cooperation between different types of knowledge.

We intend to implement new forms of teaching and offer working and out-of-town students broader opportunities of access to lectures. Tutors, digital platforms for distance learning, didactic, computer and language labs, projects for guiding students towards social entrepreneurship and sustainable development, and state-of-the-art simulation centres are the main aspects of this project, which does not relinquish the central role of dialogue and constant interaction between professors, researchers, and students.

All this is offered through a teaching proposal of 92 degree programmes covering multiple thematic areas - Life and Health, Science and Technology, Society and Culture - which are hosted and sustained by 13 departmental facilities, as illustrated below.

In the "Guide" we also present actions and services aimed, on the one hand, to promote and facilitate the international mobility of students and professors, and, on the other, to remove economic, social, cultural and gender barriers to accessing the university and the world of work, paying great attention to the issue of disabilities and specific learning disorders.

Within a context of maximum equity in terms of access we intend to value merit and talents with adequate policies to support the right to study in the incoming and ongoing stages, and after leaving the university by offering specific opportunities to the best graduates. The results of recent years have been entirely satisfactory, both in terms of the preparation achieved by our graduates and relating to employment paths, as shown by the detailed surveys conducted by the AlmaLaurea inter-university consortium, which put us at the top of the charts in terms of employability after graduation.

All this goes with the constant promotion of eco-sustainable building and energy strategies that enhance the role of Modena, Reggio Emilia and potentially Mantua and other locations as attractive and hospitable university towns.

This is the strategic aim of the radical and wide-ranging renovation of Unimore’s building stock: since the beginning of this Rector's term of office, the availability of classroom space has already increased by more than 1,000, and many more would be in view of the many agreements we have signed with public and private institutions, which have enabled us to meet certain contingent needs arising in particular from the pandemic.

By pursuing the challenges indicated here, within a harmonious and well-integrated project, Unimore will be able to present itself as a community open to the knowledge and development of individuals and the society. It seems to us the best way to take seriously the words of the President of the Republic, Sergio Mattarella, who has just completed his term of office: "Universities are the main place for strengthening the culture of our country, to prevent us from losing the sense of the past and abandoning the perspective of the future, the awareness and the responsibility to build the future".

THE RECTOR

Professor Carlo Adolfo Porro
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84.5% of students would enrol again in Unimore

85.6% of students believe that the equipment for Unimore teaching activities is adequate (labs, practical activities...)

9 Unimore students out of 10 are satisfied with their relationship with professors

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9 Unimore students out of 10 are satisfied with their relationship with professors
86.3% of students rated the classrooms as adequate.

97% of Unimore students rate positively the University library services.

1st place in Emilia-Romagna for the employment rate of graduates one and five years after graduation.

1st place in Emilia-Romagna for the remuneration of Bachelor’s and Master’s graduates.
The choice of a university programme often follows a period of reflection and evaluation, not only of the specific features of the study programmes and the universities where they are offered, but also of the skills and aptitudes that distinguish us and that we would like to make the most of through study. Finding out beforehand about the range of programmes and services on offer at universities is therefore essential to making the right choice. Guidance services provide the information needed to build a personal study plan and then, if necessary, support tailored to specific needs.

**Services**
InformaStudenti is useful to find out more about the training offer, student services, enrolment methods and procedures, and paperwork (fees, economic benefits, etc.). InformaStudenti also offers 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 entry guidance, tutoring, work guidance and placement initiatives. An individual counselling service is also available, run by the specific professional figure of the guidance psychologist, to help people make their choice or assist them when they need to reconsider their decision (re-orientation) or overcome obstacles to continuing their studies (tutoring).

**Activities and initiatives**
As early as the second-last year of high school, students can directly experience the activities that take place in the university environment by participating in a training internship.

The initiatives to present programmes and services to students are an opportunity for guidance information aimed at making students in the second-last and final year of high school reflect on their areas of interest and personal motivations.

**STUDY GUIDANCE AND TUTORING OFFICE**
orientamento@unimore.it
poa.unimore.it
orientamento.unimore.it

InformaStudenti
informastudenti@unimore.it

Tutoring
tutorato@unimore.it
Enrolment

Enrolment in degree programmes is made on the Esse3 portal (www.esse3.unimore.it), dedicated to administrative procedures. Before starting the online procedure you must obtain, in digital format:

- a close-up colour photograph of your face with a neutral background (132x151 pixels);
- front and back of a valid identity document;
- residence permit (if non-EU student);
- any other documentation (e.g., request for recognition of teaching activities, part-time application, etc.)

Connect to Esse3 and proceed to "Registration" to obtain your personal credentials or log in with your SPID personal credentials. Select "Enrolment" and then print the "Enrolment reminder". Under "Fees", proceed to pay the first instalment of the university fee.

For further information on university fees and payment methods, see the dedicated page https://www.unimore.it/ammissione/tasse.html. Once payment has been received, enrolment is "conditional" and will only become effective once the relevant offices have carried out their checks.

Applicants with a foreign study qualification will have to enrol at the Registrar’s Offices. All incoming students receive a Student Card to access university facilities and services, and a personal e-mail address is activated for institutional communications.

Enrolment instructions

For the academic year 2022-2023, enrolment in the bachelor’s degree programmes and unlimited access single-cycle master’s degree programmes can be made from 11 July to 2 November 2022. After the deadline, it will be possible to enrol until 21 December 2022 with a surcharge.

The two-year master’s degree programmes with no limited access are open to enrolment from 11 July to 21 December 2022, subject to an assessment of the academic background.

The procedures and deadlines for enrolling in limited-access degree programmes are specified in the calls for applications and the indications given are mandatory. It is important to know that for three-year degree programmes and single-cycle master’s degree programmes - both with no-limited and limited access - you must fill in the "questionnaire of enrolment" after payment of the first instalment.

Information on procedure:
https://www.unimore.it/ammissione/tasse.html

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

REGISTRAR’S OFFICES

The Registrar’s Offices work both in face-to-face and remote mode, receptions, but you need to book an appointment online at https://www.easyacademy.unimore.it/porteilePlanning/

Locations and office hours are available on https://www.unimore.it/servizistudenti/segreteriestudenti.html

InformaStudenti
informastudenti@unimore.it

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Summer closure of student offices:
16-19 August 2022

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

Enrolling at university entails the annual payment of a fee, which varies based on the different degree and master’s degree programmes. The amount includes all-inclusive fee, regional tax for the right to university study, stamp duty, insurance. The annual costs are calculated based on the student’s ISEE (equivalent financial situation index): for three-year degrees, from a minimum of €160 to a maximum of €1950; for single-cycle master’s degrees, from a minimum of €160 to a maximum of €2100; for two-year master’s degrees, from a minimum of €160 to a maximum of €2600. Exceptions are the degree programmes of: Digital Marketing, Dental Hygiene and Dentistry have different cost calculations. The payment of the amount is divided into four instalments and late payment leads to a surcharge and the blocking of exams. Based on their ISEE and ISPE indicators, students may obtain exemption from or a reduction in their university contribution.

#Benefits

Every year, in July, the Call for Benefits is published both on the Unimore website and on the website of ER.GO, the Regional Agency for the Right to Higher Studies of Emilia Romagna. You must participate in the call for applications, by filling in the online application for the exemption or reduction of annual university costs, and to request accommodation, study grants, catering, allowances for international mobility, student collaborations, Top Student exemption. To apply for these benefits, you need to submit the ISEE 2022 certificate for subsidised services for the right to university study, which can be obtained from any CAF, accountant, municipality or INPS. It takes a minimum of fifteen days to obtain this certificate, so it is advisable to act in good time. The online application can be submitted even if you are not yet enrolled in the university.

#Scholarships and fee exemptions

ER.GO disburse annual scholarships based on a call for applications. The application must be submitted every year. The scholarship amounts vary based on financial situation, “on-site”/”off-site”/”commuting” student status The application can only be completed online or at CAFs affiliated with ER.GO and can be submitted even if you are not yet enrolled in the university. Eligible students for the scholarship will also enjoy total exemption and “off-campus” students can also apply for accommodation. Besides the financial requirements, from the second year of enrolment the required number of training credits (CFUs) must be obtained to benefit from the scholarship.

#Paid student collaborations

Every year, Unimore puts up for competition many paid collaborations. Applications can be submitted online and are open to students enrolled in the second year or later, with merit (CFUs) and financial requirements. The collaboration has a duration of 75-200 hours and is carried out in university offices, libraries, centres, and museums. Third-year students may apply, by means of a specific call for applications, to become Classroom Tutors or Welcome and Tutorial Desks, carrying out paid collaboration in support of teaching activities and services.

#Top Student

Unimore exempts particularly deserving students from paying the university fees for the first year of the degree programme. If the grade obtained in the 2021-2022 high school diploma exam is 100/100, you are eligible for exemption as follows: partial (payment of only the first instalment) for residents in Emilia-Romagna, and total exemption for residents outside Emilia-Romagna. This also applies to those who enrol in a Master’s degree programme and obtain a grade of not less than 110/110 in the final exam of the Bachelor’s degree. This exemption may also be requested by applying online and submitting the request even if you are not yet enrolled in the university.

#Study awards

Students passing all their examinations in the academic year with merit (high average/votes) may apply for the study award: [www.unimore.it/bando/StuLau-PremiStudio.html](http://www.unimore.it/bando/StuLau-PremiStudio.html)

### ER.GO Regional Agency

For the Right to Higher Education
Call for applications, online application, affiliated CAFs
[www.er-go.it](http://www.er-go.it)
TALK TO ERGO – 051 19907580

### Unimore - Student benefit office

[www.unimore.it/ammissione/diritto-studio.html](http://www.unimore.it/ammissione/diritto-studio.html)
[www.unimore.it/ammissione/tasse.html](http://www.unimore.it/ammissione/tasse.html)

### Exemptions, fee reductions, top students

servizi.studenti@unimore.it
Student collaborations
collaborazioni.studentesche@unimore.it
Unimore’s commitment to promoting the inclusion of students with disabilities and Specific Learning Disorders (SLD) is continuous and systematic and is achieved through a set of customised actions that tend to respond positively to the special educational needs expressed by students.

Through the Disabled Students’ Reception Service, the University offers the following services to students:

- individual guidance interviews during the transition from high school to university and in itinere;
- incoming guidance interviews to identify the most suitable academic path;
- assistance in dealing with paperwork (filling in the online application form and enrolment) and in relations with professors and peer/teaching tutors;
- tutoring by tutors or peers;
- digitisation of texts;
- provision of aids to promote student autonomy and independence;
- possibility of experimenting with technical, teaching and computer aids with the help of specialised staff;
- individual interviews to enhance study methodology;
- outgoing assistance to promote the employment of disabled students who have graduated;
- interpreting Italian sign language (LIS) for the hearing impaired;
- subtitling of university lectures for hearing impaired students;
- removal of architectural barriers;
- reception desk for information, advice, and brochures;
- support for international exchanges.

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

- benefits intended for the totality of students and granted in relation to the possession of merit requirements and/or economic conditions;
- partial or total exemption from the payment of fees based on the level of disability;
- specifically regulated benefits for students with disabilities;
- customised actions.

**Tutoring for students with disabilities and SLD**

This service also organises a specific programme aimed at students to train them as tutors, an individual support figure helping students with disabilities and/or SLD attend university and pass their exams. For example, tutoring may consist of:

- classroom support, note-taking and mediation with professors and fellow students;
- help with daily tasks and support in all the different situations of university life;
- assisting with individual study to help students pass their exams;
- supporting students with disabilities when moving between university facilities.

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**WELCOME OFFICE FOR STUDENTS WITH DISABILITIES AND SPECIFIC LEARNING DISORDERS**

www.asd.unimore.it

For students with disabilities in Modena

disabilita@unimore.it

For students with disabilities in Reggio Emilia

servizioaccoglienza.re@unimore.it

For students with SLD in Modena

dsa@unimore.it

For students with SLD in Reggio Emilia

dsa.re@unimore.it

To request and collect aids

ausili@unimore.it

**Rector’s delegate for disability and SLD**

Professor Elisabetta Genovese

tel. 059 4224130

elisabetta.genovese@unimore.it

**Rector’s delegate for disability and SLD**

Giacomo Guaraldi

tel. 059 2058311 - 0522 523506 e-mail
disabilita@unimore.it

giacomo.guaraldi@unimore.it
Tutoring

Tutoring is designed to guide and assist students throughout their studies, so that each student can participate in his or her own educational process and be able to attend lectures successfully, with initiatives tailored to individual needs, aptitudes, and requirements.

In case of difficulties when studying for a particularly difficult exam or in relating the contents of the various disciplines, students may turn to the tutor professors who have the task of helping them 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 subsequent years.

Students can access an online programme on the Study Method (STUDIAREFFICACE), which offers suggestions and ideas for a better understanding of the university system and, above all, for learning organisational strategies useful for effective study for exams. It is a short programme made up of video lessons to watch at home, some materials for practical exercises, and an assessment test to help you understand what you have learned.

If you encounter difficulties in continuing your studies and want to reconsider your choice, you can contact the guidance psychologist for an individual interview.

International Welcome Desk

Welcoming international students is a specific commitment for Unimore. For this reason, international students have access to the International Welcome Desk, a service providing 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 (Sistema Sanitario Nazionale - 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 Students

If it is not possible to study full-time for work or personal reasons, some programmes offer students the opportunity to enrol in part-time mode. In this way, students can choose to spread the attendance of training activities and relevant examinations scheduled in one year over two academic years; the student is bound to enrol in the same academic year for two years.

Part-time students may obtain a number of university credits (CFUs) ranging from a minimum of 25 to a maximum of 35. Students enrolled on a part-time basis pay 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
The SBA is a centre that coordinates the activities and services of the 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:

- Economics Library “Sebastiano Brusco”
- Law Library
- Humanities Library
- Medical Library
- Interdepartmental scientific library
- Scientific and Technological Library “Enzo Ferrari”
- Reggio Emilia Interdepartmental Library.

The documentary collections and services of the libraries are addressed to all those who study, work, or collaborate with Unimore, but access to libraries and services and use of the collections is also open to external users, under the specific regulations available on the websites of each library.

The SBA offers specific services and paths for all study and research needs, available both on site and remotely, also thanks to the VPN service.

The digital collections and online consultancy services are constantly being expanded to meet the needs of distance learners. All services provided on site, including lending of books and access to study rooms, can be arranged by appointment if necessary.

The services of the Library System and the Unimore Libraries are also on Instagram (@sba_unimore) and on YouTube with the "BiblioSpot" video series and constantly updated tutorials:

- ACCESS to study rooms, also by appointment
- On-site consultation of printed books and magazines, online consultation of digital collections
- Bibliographic searches in catalogues and databases: with the online catalogue BiblioMo (www.bibliomo.it, also available as an app for smartphones and tablets) and with the discovery tool OneClick (www.oneclick.unimore.it), which allows simultaneous searches in catalogues, databases, electronic periodicals, e-book collections and institutional archives
- Lending of books, even by appointment
- Lending of books between libraries and supply of documents to request books not held by Unimore libraries or copies of articles or parts of books from other Italian and foreign libraries.
- Assistance in bibliographical research both on site and on-line, also thanks to the online consultancy service Ask the Librarian (www.chiedialbibliotecario.unimore.it)
- Advice to professors 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 bibliographical research and the drafting of degree and PhD theses, 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 in the evening and at weekends.

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- Opening in the evening and at weekends.
The Centro Linguistico di Ateneo (CLA) is a service and research structure in the field of advanced foreign language teaching at the disposal of the University and the territory.

The CLA’s main mission is the teaching of foreign languages and Italian as a second language/foreign language in all departments and organisational units of the University. The programmes offered by the CLA aim to promote language learning in the academic environment by guiding users in the development of the necessary skills. To achieve these objectives effectively, the Centre collaborates with selected mother-tongue professors and experienced language technicians. The CLA’s language offer is widely articulated between face-to-face, e-learning, blended and online classes to meet both the specific demands of the degree programmes and students’ needs.

Other services of the Centre include:

- computerised testing of language skills;
- language refresher classes for permanent staff and professors;
- international certifications;
- collaboration projects with national and international bodies and institutions in the field of language training and assessment.

The areas of study and focus are:

- the use of new technologies applied to foreign language teaching (corpus linguistics, multimedia, IT testing);
- the development of language programmes for specific and academic purposes;
- the issues of communication and translation in the context of Digital Humanities.
It coordinates e-learning related areas, from online support to teaching, Remote Learning and Blended (BLS) teaching.

Since 2014, it has been the administrative centre and participates in the Edunova Centre, with the Universities of Parma, Ferrara, and Venice. The most significant experience concerns the management of entire online and blended degree programmes as well as other educational paths, such as masters and advanced programmes, and the production of multimedia teaching materials. The preferred method is the blended approach, in which remote and face-to-face teaching are mixed according to the needs of the training programme. The model adopted provides for a widespread presence of professors, tutors, and trainers with in-person assessments at the teaching sites.

In 2014, the BLECS-Blended Courses experiment for individual subjects was launched, involving over 2500 students. The EDUNOVA/CEA Centre collaborates with the University Departments in the preparation of lesson timetables and classroom occupation management and proposes experimental and innovative teaching activities.

Since 2015, Edunova has been coordinating the national network for Open and Digital Education, EduOpen (www.eduopen.org), to which 22 university institutions belong and which offers open and free university programmes following the logic of issuing micro-credentials. It is also active in the research and testing of innovative teaching methods and open-source technologies to support teaching activities.
Some degree programmes offer students the opportunity of online attendance and availability of services. More specifically, some degree programmes are delivered in “mixed” (Blended – BLS) or primarily remote mode (Prevalentemente a Distanza - PAD).

These online attendance modes represent an innovative approach to teaching and encourage the use of the programme content even in telematic mode. It is also particularly suitable for those who, for work or distance reasons, cannot attend lectures regularly. Unimore was one of the first universities in Italy to launch online degree programmes in 2002.

The degree programmes delivered in ‘mixed’ mode (Blended-BLS) and/or with single classes delivered in blended mode (BLECS), are programmes delivered partly online and partly in face-to-face mode. The innovative Mixed or Blended mode (BLS - Blended learning system) was recently introduced (DM 47 of 30/01/13 and subsequent amendments) and in accordance with ANVUR guidelines. This method exploits the potential of information technology applied to teaching and in particular multimedia, interactivity, the use of technological systems, the accessibility of content and the flexibility of use by the student. It provides for the combination of "classroom" teaching and remote teaching. The face-to-face activities take place for at least 50% of the total hours, while remote teaching takes place for a number of hours not less than 30% and not more than 50% of the total, with respect to the teaching load.

The Primarily Remote mode is a special feature of the 'Blended' mode in which online training activities account for a minimum of 66% of the total and thus represents a further facilitation of remote attendance. In both cases, Blended or Primarily Remote mode, all lectures in face-to-face mode are in any case transmitted in streaming and recorded. The teaching model involves all the teachings in the programme, except for those of a technical-practical, laboratory or experiential nature. The final examination of the individual subjects is held exclusively in face-to-face mode at the university, in accordance with the procedures indicated in the current teaching regulations and as indicated by the professor. For administrative procedures, from enrolment to degree application, the student is assisted by the online Registrar’s Office.

The adoption of a Blended or Primarily Remote Mode approach represents an important technological innovation.
Internationalisation is a priority for Unimore, and the international dimension of university studies is achieved through student mobility, with the presence of international students and lecturers at the University and the opportunity to spend a period of study abroad.

As part of the Erasmus+ Mobility for Study Programme, the University offers all enrolled students the opportunity to spend a period from 2 to 12 months at one of the many partner universities, with which numerous agreements have been signed over the years. Erasmus students can follow classes, take exams, and use the facilities of the host university without paying fees to the latter and are guaranteed academic recognition of their activities abroad. Students are selected through a call for applications. The European Commission provides a monthly contribution, which varies based on the country of destination. The Erasmus+ Programme also allows students to undertake Trainee mobility, with annual selection through an annual call for applications, and enables them to spend a period as trainees in institutions or companies in one of the countries participating in the programme. The Erasmus+ Programme also allows students to undertake Trainee mobility, with annual selection through an annual call for applications, and enables them to spend a period as trainees in institutions or companies in one of the countries participating in the programme. The presence of international students, whether enrolled at Unimore or coming from partner universities for a period of study, indirectly guarantees the international dimension even to those who do not participate in mobility programmes. For this reason, welcoming foreign students is a specific commitment for Unimore, and for this purpose it has set up the International Welcome Desk, in charge of dealing with the initial reception and offering advice and paperwork assistance, also providing information on the organisation of the University, on the opportunities for students and on the two university cities of Modena and Reggio Emilia. The desk also helps outgoing international students with their choice of the country of destination.

The programme also provides for student mobility to institutions in non-European countries. Allowed activities are the attendance to classes and exams and/or the preparation of the thesis. These activities are recognised on return. The monthly amount of the grant is €700.

To its graduates, Unimore issues the “Diploma Supplement”, a certificate in Italian and English adopted by all the countries participating in the Bologna Process, which contains information on the training programme followed by the student to obtain the degree.

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

INTERNATIONAL RELATIONS OFFICE
studentmobility@unimore.it
https://www.unimore.it/mobilita/
www.international.unimore.it

Diploma Supplement
https://www.unimore.it/servizistudenti/diplomasupplement.html

International Welcome Desk
internationalwelcomedesk@unimore.it
http://www.international.unimore.it/wdesk.html
Towards work

Every year, the AlmaLaurea Report on the Condition of Graduates confirms the excellent performance achieved by Unimore graduates, especially in terms of employment rates and the time taken to enter the world of work; figures become even more significant when compared with those of other universities, and therefore with the national average.

The results obtained are attributable to an economic fabric that helps our graduates enter the world of work quickly, even in times of crisis, and to the strategic importance Unimore has always given to the development and promotion of relations with local economic and social forces.

Unimore supports the study-to-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 institutions, not only local but also outside the region.

The following individual and/or group counselling services are available throughout the course of study: definition of a personal professional project; CV writing and editing; how to deal with a job interview; active job search techniques. These activities intend to help students make informed professional choices by increasing the amount of information they need and deepening their self-knowledge.

As they approach the end of their studies, they can deepen their knowledge to adequately enter the world of work.

Services available: 1. Online notice board with job and internship offers for graduates; 2. Meetings with companies for undergraduates and graduates with interviews and CV delivery; 3. Thematic seminars and workshops (Business Administration, International Mobility, Employment Contracts, Professions...) and meetings with experts and significant witnesses from the world of work; 4. The University Career Day, which is the main opportunity for graduates to meet companies, takes place annually and is aimed at developing opportunities to enter the world of work; 5. Companies can consult the Unimore students and graduates’ curricula database free of charge and contact potential candidates directly.

Internships

An internship is a job-oriented training experience in companies and public and/or private organisations that have an agreement with the University. It offers students and recent graduates the opportunity to gain direct experience of the world of work and to develop the knowledge acquired during their academic training. Internships are divided into curricular and extracurricular. Curricular internships are aimed at obtaining the university qualification and form an integral part of the university career. They may be compulsory or optional, depending on the provisions of each programme, and enable students to gain training credits. Extracurricular internships are vocational training experiences for recent graduates who have been awarded the degree within the last 12 months and are useful for them to acquire professional skills and abilities.

The Internship Offices of the Departments take care of the organisation and administrative paperwork relating to the activation of internships for students and recent graduates, acting as an interface between the university professor who supervises the intern (scientific tutor), the host company (company tutor) and the intern.

EMPLOYMENT GUIDANCE AND PLACEMENT OFFICE
placement@unimore.it
www.orientamento.unimore.it

Employment status of graduates, year 2020
Work 1 year after bachelor’s degree
Unimore: 43.5%
National average: 33.1%

Work 1 year after master’s degree
Unimore: 71.3%
National average: 56.8%

Source: Employment status of graduates, year 2021 - AlmaLaurea
Sometimes, to succeed in the profession, it is necessary 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 takes on the strategic function of acquiring appropriate specific scientific and technological knowledge. After obtaining a Bachelor’s degree or a Master’s degree, depending on the qualification obtained, university training can continue in the form of a Research Doctorate, a 1st or 2nd level University Master’s degree, Further Training and Specialisation courses.

**PhD programmes**

PhD qualification is the third and highest level of academic education in Italy. The training programme lasts three years. The activities of the PhD programme, including any periods of study abroad and internships with public and private bodies, are aimed at the acquisition of a correct scientific research methodology, including the use of new technologies.

In addition to a sound academic background, admission to the programme is subject to a selection process based on a call for applications which specifies in detail the application requirements, the number of places available, and the number and number of scholarships available. About 70% of the places are financed by ministerial or university scholarships. The title of PhD is awarded upon the acquisition of at least 60 credits and, at the end, an academic title is issued.

**University Master Programmes**

Master programmes are courses of scientific specialisation and permanent high-level training. They are academic initiatives supporting excellence in professional activity. The word “Master” is used to emphasise the advanced professional training character of these high-level training programmes. The aim of all programmes is to provide knowledge and technical-operational or project-related skills, also aimed at enhancing skills developed during work experience. Master programmes may be managed directly by universities or by partnerships between universities and businesses, public or private bodies and institutions. There are “1st level” Master programmes, in which Bachelor’s graduates can enrol, and “2nd level” Master programmes, for which students need a Master’s degree/specialisation degree or a university degree obtained when the old system was in force. Admission is restricted to a limited number of participants and is subject to a selection procedure. Programmes are divided into classroom lectures, laboratory activities and exercises; training also includes a period of internship in institutions or companies. The Master’s qualification is awarded upon the acquisition of at least 60 credits and, at the end, an academic title is issued.

**Postgraduate Programmes**

Postgraduate programmes are run directly by universities to meet the need for refresher or retraining programmes for graduates. The various requirements of these programmes (admission, duration, content, procedures, final exams, etc.) are defined and indicated by the individual universities. Postgraduate programmes normally last no longer than one year. A certificate of attendance is issued and in some cases training credits are awarded at the end.
Modena and Reggio Emilia are people-friendly cities in the heart of Emilia Romagna and Italy. They are cities of 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, boasting an incomparable gastronomic tradition and the most versatile cultural and sporting activities. The delightful cafés that enliven the streets of the historic centre, the numerous theatres, the museums, and the proximity to so many places of interest offer students interesting and productive experiences and an excellent opportunity for growth. The University is an integral part of the city: its buildings are located in several places and are easily accessible and interconnected thanks to an efficient public transport system and a well-developed network of cycle paths. The Athenaeum has also launched a degree programme in nearby Mantua, a city rich in art and culture as well as priceless treasures, the birthplace of the poet Virgil, and an interesting city to live and to visit, preferably by bicycle.

**Accommodation**

There is a wide range of accommodation on offer for “non-resident” students. You can apply for university accommodation in one of the residences of ER.GO, the Regional Agency for the Right to Higher Education of Emilia Romagna. Rooms are cosy and equipped with a wide range of services such as study rooms, wi-fi connection, kitchen facilities on the floors and laundry facilities. Alternatively, you can consult the online notice board which collects advertisements of private individuals who rent flats and/or rooms to students. On the same website you can find information about the “Paolo Giorgi” student residence in Modena and the “Mascagni” university residence in Reggio Emilia. For temporary housing needs, you can consult the ER.GO online stock exchange, where free places that can be assigned out of competition are highlighted. There are also special rates agreed with various hotels and hostels.

Unimore students can also stay at the prestigious Collegio San Carlo institution, which offers not only an excellent hospitality service, but also the opportunity to take part in specific courses and the wide-ranging cultural offer of the Fondazione San Carlo. Furthermore, “international” students can benefit from the support of the International Welcome Desk.

**Catering**

In Modena and Reggio Emilia there are several canteens with special agreements where university students can enjoy full meals at reduced prices. The list of canteens and relevant prices is available on the Unimore and ER.GO websites.

**Transport**

Modena and Reggio Emilia are linked by the railway network and both cities have an efficient urban public transport network. Every year, the University signs an agreement for students to purchase an annual subscription at an affordable price. Students enrolled in Bachelor and Single-cycle Master’s Degree programmes, may get additional discounts subject to activation by the end of October. Thanks to an extensive network of cycle paths, moving by bicycle is common and convenient. Students with a subscription for the regional railway service will be able to travel free of charge on the urban buses of the cities of Modena and Reggio Emilia. Students with a subscription for the regional railway service will be able to travel free of charge on the urban buses of the cities of Modena and Reggio Emilia.

**ACCOMMODATION**

ER.GO - Regional Agency for the Right to Higher Education of Emilia Romagna
TALK TO ER.GO 051 19907580
www.er-go.it

UNIMORE
www.unimore.it/servizi/studenti/alloggi.html

Fondazione UniverMantova
https://www.unimn.it/

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

Collegio San Carlo
www.fondazionesancarlo.it

Catering
www.unimore.it/servizi/studenti/mense.html

Transport
www.unimore.it/servizi/studenti/transporti.html

SETA spa
www.setaweb.it

“Mi Muovo anche in Città” Regione Emilia Romagna
https://mobilita.regione.emilia-romagna.it/mi-muovo/sezioni/i-titoli-di-viaggiointegri-1
Students’ representatives

Students are represented in the University’s governing bodies. The student conference promotes and coordinates student participation in the organisation of the University. Info: www.unimore.it/servizistudenti/rappstudenti.html.

Student Associations

It is possible to join student associations in Unimore (www.unimore.it/servizistudenti/assostu.html) which promote cultural, social, sporting, and recreational initiatives.

Insurance

Students enrolled in Unimore benefit from insurance cover against accidents, the annual premium being included in the university fee. Students enrolled in the Department of Medicine and Surgery also benefit from insurance cover against risks arising from the practice of medicine.

Call for cultural and social activities

Unimore annually supports cultural and social initiatives and activities related to the university context and proposed by the students. To find out more, visit www.unimore.it/servizistudenti/assostu.html.

Choir

The University Student and Cultural Association "Choir of the University of Modena and Reggio Emilia" was founded to promote the aggregation and socialisation of young university students and cultural development in the area through musical, vocal and instrumental expression.

Student card

It is needed to access the most extensive and complete world of services connected to this card because it is the document that proves student status. The Student Card is issued upon enrolment in Unimore and remains valid for all years of enrolment. It can be used to buy discounted urban transport services, use the services offered by the CUS - University Sports Centre, or access the programme of theatre shows by buying subscriptions or tickets issued at particularly advantageous and exclusive conditions.

CUS University Sports Centre
https://www.cusmodena.it/

Leisure time
www.unimore.it/servizistudenti/tempolibero.html

Student Associations
www.unimore.it/servizistudenti/assostu.html
For years, Unimore has been committed to supporting, with a series of measures and interventions, those students who practice sport at high levels, in the belief that study, and sport have in common the necessary imprint in the training path. Unimore was one of the first Italian universities to sign an agreement with CONI to support the university training activities of student athletes. Unimore Sport Excellence programme is the result of this agreement.

Aware 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 all, Unimore has undertaken to promote a real culture of sport and inclusion, for the pursuit of healthy lifestyles and marked by well-being, through initiatives and projects aimed at the university community and the territory. The University also includes CUS Mo.Re, a sports promotion body with legal identity, recognised by the Italian National Olympic Committee (CONI) in 1979. The institutional task of CUS Mo.Re is to promote and organise preparatory and competitive sports for its students.

UNIMORE SPORT EXCELLENCE

The Unimore Sport Excellence programme is a project dedicated to young high-level athletes who want to best combine competitive sport and university commitments. It gives students the opportunity to access the so-called “dual career”, a system of benefits and tools implemented by the University to facilitate the completion of the university career and sport career at the same time. These tools include the Diploma Supplement, upon completing their studies at Unimore, which is issued to participants in the programme to certify their dual career.

Unimore also boasts several research laboratories dealing with sport in relation to different scientific disciplines such as informatics, psychology, biomechanics, materials engineering, social sciences, molecular biology, sports medicine, and neuroscience.

The research activities focus on different areas such as improving performance and training techniques, increasing the number of people practising sport, reducing the risk of injury in sport, and supporting healthy lifestyles.

CUS University Sports Centre
https://www.cusmodena.it/
https://www.sport.unimore.it/
Studying at
The educational offer is divided into programmes organised on two levels, in sequence.

**Level 1, Bachelor’s Degree**

The Bachelor’s degree ensures an adequate mastery of general scientific methods and content, even if it is intended to provide specific professional knowledge and skills. The standard duration of the degree is 3 years. Admittance to the degree programme is requires a high school diploma or another equivalent qualification obtained abroad. To obtain the degree and the academic qualification of “Dottore”, students must have accrued 180 CFUs (University Training Credits), including those related to the compulsory knowledge of a foreign language.

**Level 2, Master’s Degree**

The Master’s degree provides advanced training for highly qualified activities in specific fields. The normal duration of the Master’s degree programme is 2 years. Admission to the Master’s degree programme is subject to a three-year university degree or other equivalent foreign qualification. To be awarded a Master’s Degree, together with the academic qualification of “Dottore Magistrale”, students must have earned 120 CFUs (University Training Credits).

**Single-cycle Master’s Degree**

In the cases provided for by national or European Union regulations, the master’s degree may be a single-cycle degree, i.e., it may consist of an educational pathway accessed with a high school diploma, or another qualification obtained abroad and recognised as suitable, for a normal duration of 5 or 6 years. To obtain a Master's degree in a single-cycle programme, together with the academic qualification of Master’s degree, students must have obtained 300 or 360 CFUs (University Training Credits), depending on the duration of the programme.

**After the degree**

After obtaining a Bachelor's degree or a Master's degree, depending on the qualification acquired, university education may be continued in first- or second-level university master's programmes, PhDs, and specialisation programmes. At the end of the programme, students are awarded the title of university master, PhD, and specialist. The duration of these programmes varies from a minimum of one year to a maximum of 6 years.

**CFUs - University training credits**

A CFU (Credito Formativo Universitario) is the unit of reference for the amount of work that students must carry out to complete each of the educational activities prescribed by the programme regulations to obtain a university degree. Each CFU of bachelor’s and master’s degree programmes corresponds to 25 hours of average effort per student. CFUs are acquired by passing an exam or other form of assessment.

**Training activities**

The term “training activity” refers to any activity organised or planned by universities to ensure students
cultural and professional training, also referring to teaching courses, seminars, practical or laboratory exercises, small-group teaching activities, tutoring, guidance, internships, projects, theses, individual study, and self-learning activities.

**Degree classes**

Degree programmes are grouped into degree classes and master’s degree classes. Each class is referred to through a number and brings together programmes with the same training objectives, defined by law, i.e., the set of knowledge and skills that characterise the cultural and professional profile of the degree programme. The programmes activated within the same class have identical legal value. Awarded degrees and Master’s Degrees report the ministerial class to which they belong.

**Curriculum**

Organisation of subjects within a degree programme, defined by a group of specific disciplines.

**OFA s - Additional Credit Obligations**

Admission to university must be preceded by a compulsory assessment of initial knowledge, which is needed to successfully complete the degree programme. As a result of this assessment, students may be assigned additional training obligations (OFAs), which must be met within the first year of the programme. Students attend specific courses organised by Unimore to recover credit obligations and pass the final assessment test.

**Academic year**

This is the period during which lectures, examination and graduation sessions take place. Teaching activities normally begin no later than 1 October and end no later than 30 September of the following year.

**Teaching activities**

Teaching activities are normally divided into two teaching periods (semesters) and generally begin on 1 October. There is a single examination session, beginning on 1 November and ending by 20 April of the following academic year. Several exam calls are scheduled during the periods of interruption of classes.

**Admission**

Admission to the degree programmes may be limited by the number of places set at national or local level, or it may be unlimited. To enrol in degree programmes with limited number of places, students must pass an entry examination. These are regulated by specific calls for applications. There is no selection procedure for degree programmes with an unlimited number of places; however, students must take a test to check their academic background.

**Examination**

Assessment of what students have learned at the end of the training activity carried out. The exam grade is expressed in thirtieths.

**Final examination**

The bachelor’s degree and the master’s degree are awarded, together with the relevant academic qualification, after passing the final examination.
Bachelor’s Degrees and...

### Society and Culture

**Bachelor’s degrees**
- **Modena campus**
  - Business administration and management
  - Economics and finance
  - Economics and International marketing
  - European languages and cultures
  - Legal services in business and public administration
  - Strategic Sciences
  - History and contemporary cultures

**Reggio Emilia campus**
- Data analytics for business and finance
- Digital Education
- Digital Marketing
- Marketing and business organisation
- Communication science
- Education for early Childhood Services and socio-pedagogical context
- Psychological sciences and techniques

**Single-cycle Master’s Degrees**
- **Modena campus**
  - Law

**Reggio Emilia campus**
- Primary Teacher Education

### Health

**Bachelor’s degrees**
- **Modena campus**
  - Dietetics
  - Dental hygiene
  - Nursing – Modena campus
  - Midwifery
  - Cardiocirculatory and cardiovascular perfusion techniques
  - Biomedical laboratory techniques
  - Imaging and Radiotherapy Techniques

**Reggio Emilia campus**
- Health care
- Physiotherapy
- Nursing - Reggio Emilia Campus
- Speech and Language Therapy
- Psychiatric rehabilitation technique
- Occupational therapy

**Single-cycle Master’s Degrees**
- **Modena campus**
  - Medicine and Surgery
  - Dentistry and Dental prosthodontics
(*) The activation of the courses is, however, subject to the successful completion of the ministerial accreditation process; updates and study plans will be available online at: www.unimore.it

**Sciences**

**Bachelor's degrees**
- Modena campus
- Chemistry
- Physics
- Informatics
- Mathematics
- Geological Sciences
- Natural Sciences

**Technology**

**Bachelor's degrees**
- Modena campus
- Constructions and Territorial management
- Civil and Environmental Engineering
- Human centered medical system engineering
- Vehicle Engineering
- Electronics Engineering
- Computer Engineering
- Mechanical Engineering

**Reggio Emilia campus**
- Management Engineering
- Mechatronic Engineering
- Technologies for the Smart Industry

**Mantua Campus**
- Computer Engineering - Mantua

**Life**

**Bachelor's degrees**
- Modena campus
- Biotechnologies
- Biological sciences

**Reggio Emilia campus**
- Agricultural and Food Sciences and Technologies

**Single-cycle Master’s Degrees**
- Modena campus
- Pharmaceutical Chemistry and Technology
- Pharmacy
STUDY PROGRAMME

(CFUs are in brackets)

FIRST YEAR
General mathematics (6)
Linear algebra (6)
Fundamentals of informatics (6)
Probability calculation (6)
Descriptive statistics (9)
Database (9)
Data governance models and strategies (12)
Business models and strategic decisions (6)
English language skills (3)

SECOND YEAR
Ethics and data in business decisions (6)
Cloud Computing (6)
Data Science Lab (6)
Statistics inference (9)
Multidimensional data analysis (12)
Data Reduction, Information Design and Data Visualization (9)

To be chosen by the student (12)

THIRD YEAR
Statistics models – GLM (9)
Project Valuation (6)
Text processing and social analytics (6)
Machine and deep learning (9)
Change management methodologies (6)

Internship (18)
Final examination (3)

OVERVIEW

In public and private organisations and companies, the need to anchor economic decisions and management models to structured databases is now pervasive. These databases are both functional for defining strategic objectives and a tool for monitoring project performance. Therefore, in the current economic, social, and institutional context, the professional figure that the programme aims to train becomes essential: capable, due to their technical and coordination skills, of managing, increasing, and enhancing the information assets of organisations and businesses.

PROGRAMME CONTENTS

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

The subjects in the Data Engineering area provide the basic theoretical and methodological knowledge for the collection, analysis, and processing of data to create interpretative and predictive models to support data-driven and financial strategic business decisions.

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

The subjects in the Information Governance and Management area provide the theoretical and methodological knowledge to build strategies for the governance and management of companies’ information assets.

The subjects in the Information Design area (Data representation and visualisation) provide the method-
Bachelor's Degree / Society and Culture

Digital Education

Primarily remote teaching programme

OVERVIEW

The Degree Programme provides students with the theoretical knowledge and develops the practical skills needed to operate in digital educational and training contexts.

The feature in common 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, design and educational system - in educational contexts, and to education (and re-education) to the so-called 'digital citizenship' and to support rebalancing interventions in the field of digital addiction. Attention is paid to training processes in the social/health fields.

Since the academic year 2020/21, the Degree Programme is based at 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 curricula in the psycho-socio-healthcare field.

In addition, the crisis in training and education systems generated by the COVID-19 pandemic has highlighted the absolute need for professional expertise 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 uni-

STUDY PROGRAMME

(CFUs are in brackets)

Common programme

FIRST YEAR

History and theory of education (12)
General psychology and cognitive bases of learning (12)
English language (6)
Training environments and technologies (9)
Psychology of development and education (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 to be chosen by the student (3)
Credits chosen by the student (12)
Internship (12)
Final examination (6)

Curriculum: Instructional Designer in Digital Contexts

SECOND YEAR

Labour law in digital contexts (9)
Statistics (9)
Cognitive psychology in digital contexts (9)
Digital technologies and psychologic 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/health 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 the well-being and care of the individual (5)

THIRD YEAR

Multimedia content planning 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)

Curriculum: Psycho-social educator in digital contexts

Campus: Via del Pozzo, 71 Modena
Duration: 3 years
Training credits (CFUs): 180
Degree class: L-19 Education and training sciences (qualification: Professional socio-pedagogical educator)
Study qualification required: High school diploma
Admission: Free
versity, 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 train to the following professional figures:

- Instructional Designer in digital contexts,
- Psycho-social educator in digital contexts,
- Digital educator in social-healthcare contexts.

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www.digitaleducation.unimore.it
Digital Marketing

STUDY PROGRAMME  
(CFUs are in brackets)  

**FIRST YEAR**
- Digital business law I (6)
- Data analysis for digital marketing I (6)
- Business models and strategic innovation (6)
- Digital marketing strategies (6)
- Informatics I (6)
- Growth economics (9)
- English A2-B1 (lectorship)
- Digital buyer analysis and profiling (12)  
  (module 1 Practitioner + module 2 Teamwork)
- Internship I (6)

**SECOND YEAR**
- Digital business law II (12)  
  (module 1 + module 2)
- Data analysis for Digital Marketing II (12)  
  (module 1 + module 2)
- Informatics II (6)
- English B1-B2 (3)
- Branding and Digital Communication (18)  
  (module 1 and 3 Practitioner + module 2 Teamwork)
- Internship II (9)
- To be chosen by the student (12)

**THIRD YEAR**
- Digital banking and finance (6)
- English B2-C1 (3)
- Competition and business in the digital economy (12)  
  (module 1 Practitioner + module 2 Teamwork)
- Digital economy, Business and Strategic Planning (12)  
  (module 1 Practitioner + module 2 Teamwork)
- Internship III (15)
- Final examination (3)

**OVERVIEW**

The degree programme aims to train professional able to provide innovative solutions within digital economy and become active interpreters of the change. The training project introduces important novelties in teaching methodologies: in fact, it envisages the provision of basic and application courses, teamwork, and internship programmes during every year of study. 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. Through internships the acquired knowledge and skills can be verified 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 aim to provide the theoretical knowledge, the operating tools, and a job-oriented expertise that are useful for an outgoing profile that will be able to manage the marketing activity 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 who will work as digital marketing specialists. These figures can work towards objectives, in inter-functional teams, and contribute to enterprise strategic decision-making processes. Their skills make them suitable to take on project middle manager roles in different business areas, even though the acquired knowledge, skills and abilities are preferable for the marketing area. 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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www.dce.unimore.it
STUDY PROGRAMME

(CGUs are in brackets)

FIRST YEAR
Public law (6)
Business administration (12)
Economics and business management (6)
Informatics (suitability) (3)
Introduction to microeconomics (9)
English language (suitability) (6)
General and financial mathematics (12)
Economic history (6)

SECOND YEAR
Business financial statements (6)
Private and commercial law (12)
Economics of financial intermediaries and finance (9)
Economics and management of banks (6)
Introduction to macroeconomics (9)
Financial science (6)
Statistics (9)
One exam chosen from the following
- Labour law (6)
- Principles and models for managerial decisions (6)

THIRD YEAR
Tax Law (6)
One exam chosen from the following
- Sustainable Credit and Finance (6)
- Programming and control (6)
12 CFUs to choose from the following exams:
- Securities Market Economics (6)
- Business Ethics and Social Responsibility (6)
- Corporate finance (6)
One exam chosen from the following
- Marketing and Technology (6)
- HR organisation and management (6)
Training activities to be chosen by the student (12)
Internship (12)

Final examination (3)

OVERVIEW
The Degree programme in Science in Business Administration and Management is aimed at all those who want to pursue a managerial career in commercial, industrial, financial, and not-for-profit enterprises and those who want to pursue a freelance career or undertake independent entrepreneurial paths.

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, 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. During the first part of the degree programme, students will gain the fundamentals in business, economics, law, and mathematics and statistics. 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).

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https://www.economia.unimore.it/site/home/didattica/corsi-di-laurea/economia-aziendale-e-management.html
STUDY PROGRAMME
(CFUs are in brackets)

FIRST YEAR
Public law (6)
Business administration (12)
Economics and business management (6)
Informatics (suitability) (3)
Introduction to microeconomics (9)
English language (suitability) (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)
Financial science (6)
Statistics (9)

THIRD YEAR
Models for financial investments (6)
One exam chosen from the following
- Applications of Financial Models (6)
- Introduction to Econometrics (6)

Two exams to choose from the following:
- Economics and Institutions of Industrial Districts (6)
- Labour Economics and Policies (6)
- International economics (6)
- Monetary economics (6)
- Welfare systems (6)

One exam chosen from the following
- History of economic thought (6)
- European Union Law (6)
- Securities Market Economics (6)

Training activities to be chosen by the student (12)
Internship (12)
Final examination (3)

OVERVIEW
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 choice) and knowledge on economic themes (industrial, international, job market, welfare analysis).

JOB OPPORTUNITIES
The Degree Programme in Economics and finance trains graduates who can keep a broad perspective on the activity of economic and institutional subjects, and to 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 enterprises (banks, insurance companies) and of applied economist in bodies of various kind (public enterprises and bodies, foundations, associations, trade unions).

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

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

CFUs are in brackets

FIRST YEAR
Public law (6)
Business administration (9)
Economics and business management (6)
Informatics (suitability) (3)
Introduction to microeconomics (9)
English language (suitability) (6)
General and financial mathematics (12)
Programming and control (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)
Financial science (6)
Statistics (9)

Second language – one of the following exams:
- 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 II (9)
International Marketing (9)

One exam chosen from the following
- Export Management (6)
- B2B and Digital marketing (6)
- HR organisation and management (6)
- European Union Law (6)
- Economic history (6)
- French Language II (6)
- Spanish Language II (6)
- German Language II (6)

Training activities to be chosen by the student (12)
Internship (12)
Final examination (3)

OVERVIEW

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

The skills provided by the programme include managing relationships with international customers, assessing the attractiveness of foreign markets, knowing how to choose and manage entry methods in different markets, including through digital marketing tools, acquiring language skills to interact with foreign partners. The programme aims to develop students’ skills, as well as an adequate profile of competences, a capacity for judgement and autonomy through the use of exercises and case studies, seminars with managers, and internship experience, 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 choose from French, German, and Spanish.

JOB OPPORTUNITIES

At the end of the programme, students will possess a solid knowledge of economics, languages, and marketing, which will enable them to work in many Italian businesses already closely connected to foreign markets, or in the process of internationalisation. 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 skills profile acquired also enable graduates to successfully take on 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 acquired knowledge will provide students with an adequate academic background and a solid base to successfully attend the higher-level Master's Degree Programmes in Economics, Business Economics and Finance.

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

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 2nd year, students can choose between two different paths: an economic and legal programme (language mediation for the economic and international companies), and a language and cultural one (language mediation for the cultural industry, cultural tourism, and event management). A modern teaching approach promotes access to internship experiences and includes several international exchange programmes for students and professors. A double title 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 may find a job at local and international level. The linguistic and cultural tools provided allow graduates to operate profitably in the field of multilingual communication, both as translators and as language editors and consultants, mainly for companies and international organisations, but also for publishers and advertising and tourist agencies. Additionally, the skills and sensitivity acquired will make graduates suitable to work as cultural mediators. 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.
STUDY PROGRAMME

(CFUs are in brackets)

FIRST YEAR
Private law of economics (6)
Business administration (9)
Economics of business systems (6)
Informatics (6)
Principles of political economy I (9)
English language (6)
Mathematics (6)
Sociology of work and organisation (6)

SECOND YEAR
Administration and control (9)
Contract and business relations law (12)
Marketing fundamentals (9)
Corporate organisation (9)
Social psychology (6)
To be chosen by the student (12)

THIRD YEAR
Distribution marketing (9)
Psychology of cognitive processes (6)
Internship - other activities (9)
Final examination (6)

Two teachings chosen from a set of four:
Accounting and budgeting (9)
Business communication (9)
Organisational behaviour (9)
Business financial decisions (9)

OVERVIEW

The Degree Programme in Marketing and business organisation meets the growing need for professionals who shall be able to combine business and marketing skills with knowledge of the organisation of the business activity, and use the new information technologies, as well as 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 study areas. 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 coordinating the business activity and the relations between economic and institutional players. The third area deals with business organisation and human resources management issues, and constantly refers to the new information and communication technologies or relevant legislation benchmarks. Lastly, the fourth area explores issues relating to market strategies and policies, and business communication, with specific reference to the activity of the great modern distribution. The study programme includes traditional classroom lessons, seminar modules, group activities and traineeship activities, which are mostly important to develop the ability to apply the acquired knowledge. Educational activities in the classroom also offer the opportunity to listen to the recordings of the lectures via ONElab services; the service also includes a timetable for contacting the professors online in addition to the traditional visiting hours.

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 mainly addressed to those professions operating in manufacturing and service undertakings; the acquired knowledge may also be profitably used in consulting or public administration management activities. 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.
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, informatics, 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. Educational activities in the classroom also offer the opportunity to listen to the recordings of the lectures via ONELab services; the service also includes a timetable for contacting the professors online in addition to the traditional visiting hours.

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 students to access Master’s Degree programmes offered by the Department in Advertising, digital communication, and business creativity, and in Management and Business Communication.
STUDY PROGRAMME

(CFUs are in brackets)

FIRST YEAR

Philosophical aesthetics (8)
English language (6)
General and social pedagogy (9)
Contemporary history (6)
History of education (9)
Informatics (4)
Educational research methodology with specific content for early childhood (6)
Intercultural pedagogy (6)
Educational research methodology with specific content for early childhood (6)

“Educator in nurseries and childhood services” curriculum

SECOND YEAR

Criminology (6)
Psychology of development and education in early childhood + Psychology of handicap and rehabilitation with specific contents for early childhood (12)
Teaching and special pedagogy (9)
General sociology (6)
Theory and teaching of digital media (6) or alternatively:
General linguistics and psycholinguistics (6)
Law of family relationships (6)
Ethics and anthropology of relations (6)
Sociology of education and early childhood (6)
Activities to be chosen by the student (12)
Guidance internship (2)

THIRD YEAR

History and legislation of educational services for early childhood (8)
Group processes and dynamics (6)
Pedagogy of early childhood and family (6)
Design and assessment of educational contexts for early childhood + Methodology of play and creativity for early childhood (12)
Internship (12)
Final examination (5)

Socio-pedagogical educator curriculum

SECOND YEAR

Teaching and special pedagogy (9)
Psychology of handicap and rehabilitation with specific contents for early childhood (6)
Social and group psychology (6)
Philosophy of human rights (6)
People, families and society (6)
Video history (6)
Language acquisition and teaching (6) or alternatively:
Theory and teaching of digital media (6)
Sociology of education and early childhood (8)
Criminology (6)
Activities to be chosen by the student (12)
Guidance internship (2)

THIRD YEAR

Narrative medicine (7)
History of interreligious relations (7) + Principles of public and ecclesiastical law (7)
Group processes and dynamics (6)
Extracurricular teaching (9)
Internship (12)
Final examination (5)

OVERVIEW

The Degree Programme trains professional socio-pedagogical educators and educators in nurseries and early childhood educational services, under applicable regulations. 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 gets 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 in part-time mode.

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 targetted 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. Socio-pedagogical educator. Attendance to internships and laboratory activities related to some teachings is compulsory for both programmes.

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 in Education for early childhood services and socio-pedagogical contexts provides direct access to the Master’s Degree Programme in Pedagogy with no credit obligations.

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www.des.unimore.it/L/SED
The Programme is provided in mixed mode

OVERVIEW

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

Face-to-face teaching activities 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

Subject to registration with section B of the Professional Order of Psychologists, graduates in Psychological Sciences and Techniques will be able to perform the profession of Doctor in psychological techniques in the field of prevention, diagnosis and rehabilitation in public and private institutions, educational institutions, third-sector organisations, within psychosocial, evaluation, human resource management, assistance, training, health promotion activities, in collaboration with a master graduate psychologist enrolled in Section A of the Professional Order.

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.
Bachelor’s Degree / Society and Culture

Legal services in business and public administration

The Programme is provided in mixed mode

STUDY PROGRAMME
(CFUs are in brackets)

1ST YEAR
Principles of Roman law (6)
Constitutional law (9)
Political economy (6)
Principles of Private Law (9)
History of European law (6)
Sociology of law and elements of legal informatics (9)

2ND YEAR
Administrative law (9)
Labour law (9)
International organisations law (6)
Civil procedural law (9)
Criminal law (9)
Commercial law (9)
Business administration (6)
English language (suitability) (6)

3RD YEAR - BUSINESS LEGAL OPERATOR
Transport law (6)
Law of banks and financial intermediaries (6)

Students must choose 18 CFUs from the teaching proposed:
- Law of industrial property and competition (6)
- Food law (6)
- Criminal procedural law of companies (6)
- Tax Law (6)
- Bankruptcy law (6)
- Criminal law of legal persons and economics (6)
- Urban and environmental law (6)

3RD YEAR - JOB CONSULTANT
Law of banks and financial intermediaries (6)
Tax Law (6)
Procedural law of work (6)
Law of trade unions and industrial relations (6)
Social security law (6)

Public labour law (6)

3RD YEAR - JUSTICE, PUBLIC SECURITY AND ADMINISTRATION
Criminal procedural law (6)
Criminology (6)

Students must choose 18 CFUs from the teaching proposed:
- Regional law (6)
- Law of local authorities (6)
- European law of immigration (6)
- Criminal procedural law of companies (6)
- Law and religion (6)
- Law and policies of urban safety (6)
- Urban and environmental law (6)

for all curricula:
- 2 teachings to be chosen by the student (12)
- Additional training activities (21)
- Final examination (9)

OVERVIEW

The degree programme in Legal Services 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: corporate lawyer, labour consultant and professionals dealing with justice, public services 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 Inspectors. In addition, further job opportunities are in the fields of labour consulting, trade unions, professional associations, banks, and insurance companies.

Those wishing to continue their studies should refer to the Further studies section.
OVERVIEW

The Bachelor’s Degree in Strategic Sciences provided by the University of Modena and Reggio Emilia is reserved to Trainees Officers of the Italian Army. It meets the need of the Army to have a training programme for the future officers of the various Armed Forces. The programme is set up in accordance with the military Authorities and under their provisions.

The Degree Programme offers a wide-ranging cultural and technical preparation, the general approach is based both on the methodological rigour of the scientific subjects and on legal, economic, and socio-logical issues. This allows the Student/Officer-to-be to acquire the knowledge and the skills needed to continue his/her studies by enrolling in the Master’s Degree Programme, but also to provide the theoretical-practical training necessary to operate, with command, administration, management, and coordination tasks, in the specific areas 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 training. 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.

STUDY PROGRAMME

(CFUs are in brackets)

FIRST YEAR: COMMON PROGRAMME
Mathematics I (9)
Informatics (6)
Chemistry (6)
Geometry of linear algebra (9)
Elements of physics (3)
Mathematics II (9)
Physics (9)
English language (3)
Internship (professional technical module) (6)

SECOND YEAR: COMMON PROGRAMME
Political economy (6)
Weapons (6)
Military art (6)
Public law (6)
General and social psychology (6)
Topography and cartography (6)
Internship (professional technical module) (26)

THIRD YEAR - COMMON SUBJECTS:
Political and economic geography (6)
Management discipline applied to military arts (6)
Internship (professional technical module) (28)
Final examination (3)

THIRD YEAR - ORGANISATIONAL AND POLITICAL CURRICULUM
Business economy and administration (6)
Sociology of cultural processes (6)
History of armed conflicts (6)

THIRD YEAR - INFRASTRUCTURAL SYSTEM CURRICULUM
Material science (9)
Building science (9)

THIRD YEAR - COMMUNICATION CURRICULUM
Electronic computers (9)
Databases (9)

JOB OPPORTUNITIES

Graduates in Strategic Science obtain the First Rank Official in the Permanent Unrestricted Line of the Army and get the skills required to command and direct in relation to the organisation, preparation and management of personnel, specific means and materials, activities related to logistic and administrative procedures for the operation of military structures. Graduates continue their studies based on the needs of the Army Force as a precondition of the activity that they will carry out within structures owned by the Ministry of Defence, including Bodies/Branches/Divisions/Units or in missions abroad.

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www.giurisprudenza.unimore.it/L/scst
STUDY PROGRAMME
(CFUs are in brackets)

FIRST YEAR
Contemporary history (12)
Modern history (9)
Principles of philosophy (12)
Cultural anthropology (9)
Sociology of cultural processes (9)
English (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 migrations (9)
Teaching of history (6) or: Digital libraries and archives (6)
“Philosophical methods and forms of knowledge” curriculum
History of ideas (9)
Two teachings to choose from:
Theoretical philosophy (6)
History of science (6)
General psychology (6)

“Cultural diversity and mediation” curriculum
Theory and methods of dialogue and mediation (9)
Two teachings to choose from:
Anthropology of migrations (6)
Sociology of intercultural relations (6)
Social anthropology and anthropology of educational settings (6)
Credits chosen by the student (12)
Other activities/internships (4)

Final examination (5)

For updates, please visit the Degree Programme website.

OVERVIEW

The study programme provides theoretical, methodological, and basic knowledge in history, philosophy, anthropology, sociology, and other disciplines (literature, arts, digital humanities, economics, geography, psychology); it also allows the acquisition of critical tools to know the current contemporary world and encourage dialogue between the various 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 is to acquire a plurality of methods of investigation of contemporary cultures within a broad and up-to-date historical and humanistic path. 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 in multiple directions.

PROGRAMME CONTENTS

The programme consists of a solid common interdisciplinary base in the first two years, and two different specialisation curricula that are chosen on the 3rd year: historical and philosophical the first one, social-anthropological the other one.

This set up allows for deepening the historical training and addressing anthropological, philosophical, and sociological issues and phenomena with a deeper awareness. 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.
**Campus:** via San Geminiano, 3 41121 Modena  
**Duration:** 5 years  
**Training credits (CFUs):** 300  
**Degree Class:** LMG/01 Law  
**Study qualification required:** High school diploma  
**Admission:** Unlimited, with academic background assessment test.

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<th><strong>STUDY PROGRAMME</strong> (CFUs are in brackets)</th>
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<tr>
<td><strong>FIRST YEAR</strong></td>
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| Principles of Roman law (9)  
Constitutional law (12)  
Political economy (9)  
Principles of Private Law I (12)  
History of medieval and modern law (9)  
Philosophy of law (9)  |
| **SECOND YEAR** |
| Commercial law (15): general part module (9), special part module (6)  
Labour law (12)  
Comparative legal systems (9)  
Foundations of regulatory argument (6)  
Law and religion (6)  
Principles of Private Law II (9)  
English language - id.(6)  |
| **THIRD YEAR** |
| European Union Law (9)  
Criminal law (9)  
Tax Law (9)  
International law (9)  
Administrative law I (9)  
History of modern and contemporary law (6)  |
| **FOURTH YEAR** |
| Advanced criminal law (6)  
Administrative law II (9)  
Civil procedural law (15): module I: general principles and the cognitive process (9), module II: Special proceedings and forced execution (6)  
Criminal procedural law (15): static part module (6), dynamic part module (9)  |
| On fourth year, students must obtain 12 free-choice CFUs  |
| **FIFTH YEAR** |
| Monographic Roman law (6)  
Civil law (9)  |
| Students must choose 5 optional teachings for a total of 30 CFUs from the following:  
Comparative Human Rights Law (6)  
Criminology (6)  
Teaching of law and media education (6)  
Air Law (9)  
Agri-food law (6)  
Canon Law (6)  
National and international arbitration law (6)  
Business crisis and insolvency law (6)  
Social security law (6)  
Nutrition, physical activity, well-being and nature law (6)  
Law of local authorities (6)  
Transport law (6)  
Law of banks and financial intermediaries (6)  
Digital information and communication law (6)  
Law of industrial property and competition (6)  
International organisations law (6)  
Law of transfer of family property (6)  
Public labour law (6)  
Law and artificial intelligence (6)  
European law of immigration (6)  
European law of motor vehicles (6)  
Financial law (6)  
Private and procedural international law (6)  
Criminal law of legal persons and economics (6)  
Labour criminal law (6)  
Criminal procedural law of companies (6)  
Labour procedural law (6)  
Public law (6)  
Regional law (6)  
Law of trade unions and industrial relations (6)  
Urban and environmental law (6)  
Economics and law of public contracts (6)  
European and International Criminal Law (6)  
European and International Tax Law (6)  
Legal informatics and privacy law (6)  |
| Forensic medicine (6)  
European criminal procedure (6)  
Theory and practice of human rights (6)  
Theory and technique of constitutional process (6)  
Final examination - 21 CFUs  
Additional training activities - 3 CFUs  |

**OVERVIEW**

Through the study of legal phenomena from multiple perspectives, the Master’s Degree Programme in Law offers a comprehensive, specific, and in-depth knowledge of the Italian and international legal system and aims to provide graduates with the technical and cultural tools that are typical of the lawyer’s profession. The programme trains students to classical legal professions (magistrate, lawyer, notary) and other 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 can analyse, understand, and interpret legal data from both a national and transnational perspective. To this purpose, the Master’s Degree Programme in Law has consolidated its internationalisation process by enhancing the English language teaching and integrating the traditional 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 analysing private and commercial law disciplines. The second area of study focuses on the analysis of public law disciplines (constitutional, administrative, and criminal) and labour law. The third area aims to provide the historical, philosophical, and sociological, and comparative knowledge that will set the historical and theoretical grounds of legal studies. The fourth area teaches the international order and EU law, whereas the fifth one deals with procedural law (civil, criminal, administrative, labour). The teaching model implemented tends to promote the integration of the skills acquired and a strong interaction between professors and students. Traditional lectures held by professors - both in Italian and English - are integrated with other seminar activities with university professors and Italian as well as 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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Primary teacher education

STUDY PROGRAMME

STUDY PROGRAMME
(CFUs are 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)
History of school (8)
Modern history (8)

SECOND YEAR
General teaching (8)
Physical education (9)
English workshop 2 (2)
Children’s literature (9)
Mathematics 2 (6)
Methodology of educational research (6)
Intercultural pedagogy (7)
Contemporary history (8)
Internship 2 (3)

THIRD YEAR
Biology (13)
Chemistry + Physics (13)
Mathematics teaching (10)
Teaching and special pedagogy (10)
Geography (9)
English workshop 3 (2)
Internship 3 (5)

FOURTH YEAR
Teaching of reading and understanding (7)
Docimology (7)
English workshop 4 (2)
Italian literature (13)
Italian linguistics 2 (7)
Music teaching and pedagogy (9)
Languages of digital art and media (9)
Internship 4 (7)

FIFTH YEAR
Hygiene (4)
English workshop 5 (1)
Teaching technology workshop (3)
Methodology of team work

+ Teaching technologies (9)
English language test (2)
Final examination (9)
Psychology 2 (9)
Psychopathology of development (8)
Internship 5 (9)

OVERVIEW

The Master’s Degree Programme in Primary teacher education is the only programme that prepares qualified teachers for preschools and primary schools. It boasts an innovative teaching, including traditional lectures, internship in schools, workshops, and makes use of a constantly up-to-date E-learning platform. In laboratories, groups of students are guided by teachers and professionals as they learn to practically 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 promoted in collaboration with school institutions. The Degree Programme is strongly rooted in the territory, values the best innovative school experience, and also accounts for the Reggio Emilia model of preschools. Graduates’ employment rate is positive: one year after obtaining the degree, 86.7% of graduates find a job as teachers (temporary or permanent) (Source: Alma Laurea 2020).

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, 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 English workshops and 8 training credits to be chosen freely; over 600 hours of internship are also provided in preschools and primary schools. Attendance to workshops and internships is compulsory.

JOB OPPORTUNITIES

The training programme trains graduates to teach both in preschools and primary schools.
OVERVIEW

Born from the collaboration between the University of Modena and Reggio Emilia and the University of Parma, the Degree Programme in Health Care trains and qualifies professionals to the role of Health Care Assistant, in charge of disease prevention and health promotion and education in all phases of a person’s life. The activity is addressed to individuals, families, schools, 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 action, to be activated in the different contexts also with the use of specific techniques and tools.

PROGRAMME CONTENTS

During the training programme, students acquire knowledge of clinical-etiology, public health, preventive medicine, and healthcare education, in the psycho-pedagogical and communicative fields, useful for developing skills, including behavioural skills, to implement preventive and educational actions that are effective to solve health problems. The programme consists of theoretical teaching activities (traditional lectures, seminars, work activities in small groups), and professional activities organised in laboratories and internships to be carried out in various health facilities in the area, under the supervision of tutors, to acquire full mastery of all the necessary professional skills and their immediate use in the workplace.

JOB OPPORTUNITIES

At the end of the training programme, students obtain the title of health care assistant, thus becoming the health care professionals responsible for the protection and promotion of the health of people of all ages and conditions. At the end of their training, healthcare assistants carry out their professional activity in public or private health and social care facilities, as employees or freelance professionals.

The Bachelor’s Degree Programme in Health Care gives access to the Master’s Degree Programme in Health Professions for Preventive Care or to 1st level university Master’s programmes.
STUDY PROGRAMME (CFUs are in brackets)

FIRST YEAR
Physics, statistics, and informatics (5)
Biology, histology, and biochemistry (8)
Anatomy and physiology (8)
Microbiology and hygiene (7)
Scientific English (3)
Food sciences (7)
Job-oriented internship (17)
Job-oriented workshop (1)
Optional activities and other (4)

SECOND YEAR
Human and Psychopedagogical Sciences (6)
Physiopathology (6)
Nutrition and collective catering (5)
Applied dietary sciences (10)
Prevention science and first aid (6)
Job-oriented internship (20)
Job-oriented workshop (2)
Optional activities and other (5)

THIRD YEAR
Internal medical sciences (6)
Medical and clinical sciences 1 (5)
Paediatric and obstetrics-gynecology science (5)
Medical and clinical sciences 2 (8)
Healthcare management (4)
Job-oriented internship (23)
Thesis and final examination (6)
Other activities (3)

OVERVIEW

The three-year degree programme in Dietetics trains the Dietician healthcare operator, who promotes the health and well-being of the person through proper nutrition, both for healthy individuals and communities, and for sick people. The programme provides skills related to dietetics and nutrition in the preventive and clinical fields, catering, and research. 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. The knowledge of the psycho-pedagogical principles makes graduates skilled in food education and in building a therapeutic alliance. The medical-clinical, deontological, legislative teachings and the internship allow students to acquire specific skills in clinical nutrition and dietotherapy. The job-oriented internship with tutors is compulsory for the three years of the programme.

Students passing the final degree examination are awarded the Bachelor’s Degree in Dietetics and register in the Order TSRM-PSTRP, being qualified for the profession of Dietician.

JOB OPPORTUNITIES

The Dietician is the healthcare professional skilled in all activities aimed at correctly applying nutrition and dietotherapy to healthy and ill people. In the clinical field, Dieticians process and formulate the personalised diets that doctors prescribe to patients, monitoring their implementation and effectiveness; they collaborate to the treatment of eating disorders; process the composition of food rations and menus to meet the nutritional needs of population groups; take care of catering services (canteens, residential facilities); carry out educational activities to promote proper lifestyles; carry out research activities. 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 enables students to access the Master’s Degree Programme in Health professions for technical assistance (Class LM/SNT-3) and in Nutrition (Class LM-61), Specialisation Programmes and Vocational Master Programmes (1st level).
OVERVIEW

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 identifying 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 Rehabilitation Healthcare Professions with no credit obligations.

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OVERVIEW

A 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 to improve the well-being of the entire body, including the smile aesthetics. 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 hygiene treatment, s/he carries out non-surgical periodontal therapy, sealing of grooves and dimples, topical application of remineralising substances, bleaching of vital teeth. S/he makes use of any available strategy or technology for the conduct of its clinical practice, including the adaptation 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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STUDY PROGRAMME

(FUUs are in brackets)

FIRST YEAR
Cellular and molecular bases of life (4)
Morphological and functional bases of life (7)
Fundamentals of nursing sciences (5)
Pathophysiological bases of diseases (6)
Promotion of health and safety (6)
Relationship of assistance in care processes (5)
Scientific English (1 of 2) (1)
Nursing internship - 1st year (15)
Nursing in multicultural society (1)

SECOND YEAR
Nursing in the medical area (10)
Nursing in chronicity and disability (8)
Scientific English (2 of 2) (1)
Nursing in oncology (4)
Nursing in the surgical area (7)
Evidence-based nursing (5)
Nursing internship - 2nd year (22)
Activity to be chosen by the student (1 of 2) (2)
Nursing in chronic skin ulcers (1)

THIRD YEAR
Nursing in maternal-child area (6)
Nursing in critical area (6)
Legal and ethical principles of professional practice (4)
Nursing in hemodynamics, cardiosurgery and surgery (1)
Clinical risk and safety of patients (1)
Family and community nursing (9)
Healthcare and care process organisation (4)
Nursing internship - 3rd year (26)
Activity to be chosen by the student (2 of 2) (4)
Nursing in pathologies of the sense organs (1)
Final examination (5)

OVERVIEW

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 (internship). The main discipline of the Degree Programme is Nursing, which studies how to meet the needs of the person 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’s graduates may also access Vocational Master Programmes (1st level).
STUDY PROGRAMME

**FIRST YEAR**
- Molecular bases of life (4)
- Morphological and functional bases of life (8)
- Fundamentals of nursing (5)
- General clinical nursing (4)
- Contributory disciplines (5)
- Promotion of health and safety (8)
- Pathology and pharmacology in diagnostic and therapeutic processes (9)
- Job-oriented training activities (Workshop and Internship) (11)
- Activity to be chosen by the student (2)

**SECOND YEAR**
- Nursing in the medical area (9)
- Oncology and help report (5)
- Nursing in the surgical area (8)
- Specialist medical area (4)
- Nursing in chronic conditions (6)
- Job-oriented training activities (Workshop and Internship) (26)
- Activity to be chosen by the student (2)

**THIRD YEAR**
- Nursing in the critical life (4)
- Nursing in the community and in mental health (7)
- Nursing based on evidence of effectiveness (5)
- Nursing in maternal and child area (4)
- Care organisation (7)
- Job-oriented training activities (Workshop and Internship) (30)
- Activity to be chosen by the student (2)
- Final examination (7)

**OVERVIEW**

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 lived experience of health and illness, how people react to it and the ways in which nursing care can positively affect the outcomes of the disease. Nurses are the closest operators to the needs of individual people and the population, and this requires personal skills, motivation and a rigorous human and scientific training.

**PROGRAMME CONTENTS**

The nursing training programme is divided into three years. The teaching methods include theoretical plenary and interactive lessons, provided as tutorial teaching to small groups, both in nursing laboratories and internships. The laboratory activities, carried out before the internship, give students the opportunity to experiment, through simulations, the skills they will have to acquire during the clinical practice. The clinical internship is carried out through the supervision of nursing tutors who work in hospitals across the territory of Reggio Emilia. The teaching activities also include activities such as seminars and the opportunity to carry out internship experiences in foreign universities, and to participate in European projects.

**JOB OPPORTUNITIES**

After registering in the professional order, graduate nurses may find a job in Italy and in the EU; they may work as employees in Hospitals, private and public Healthcare Residences, as free-lance professionals both individually and/or in associations. Nurses may work in any health care contexts independently and strongly integrated with other health care professionals; actively participate in improving the health care in work, project, or research groups; and further develop their training.

The Degree Programme in Nursing - Reggio Emilia provides direct access to the Master’s Degree Programme in Nursing and Midwifery Sciences, as well as Vocational Master Programmes (1st level) with no credit obligations.

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OVERVIEW

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 residential 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.
STUDY PROGRAMME (CFUs are in brackets)

**FIRST YEAR**
Basic disciplines 1 (4)
Morphological and functional bases of life (5)
Obstetric and gynecological sciences 1 (8)
Basic disciplines 2 (6)
Human and psychopedagogical Sciences (4)
Obstetric and gynecological sciences 2 (5)
English (2)
Laboratory (3)
Internship - 1st year (22)

**SECOND YEAR**
Science of prevention (5)
Neonatal and paediatric sciences (4)
Physiology of childbirth and puerperium (7)
First aid sciences (4)
Sciences of health promotion and maintenance (6)
Physiopathology of pregnancy (7)
Internship - 2nd year (22)

**THIRD YEAR**
Gynecological and oncological pathology (5)
Obstetric pathology (6)
Interdisciplinary sciences (4)
Healthcare organisation and psychology of the profession (5)
Obstetric emergencies and complications (7)
Internship - 3rd year (21)
Final examination (7)
Other activities (6)
Activity to be chosen by the student (6)

**OVERVIEW**

The professional figure of the obstetrician has an important role in the Health Care because s/he follows the woman in every phase of her life, from birth to senility. His/her skills include assistance and advice to the woman in a special and delicate period of her life, pregnancy, childbirth, and puerperium. The Degree Programme in Midwifery offers students a complete training both from a theoretical (scientific knowledge specific to the professional profile) and practical point of view (technical skills needed to carry out the profession).

**PROGRAMME CONTENTS**

The Degree Programme provides for a six-month organisation of training activities characterised by theoretical (lectures, exercises) and clinical-assistance (internship) learning. The activity of compulsory practical application internship is carried out with the supervision and guidance of professional tutors and internship guides. Under the Erasmus programme, students may take a 3-month internship at some universities of EU Countries.

**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 in public or private healthcare facilities, hospitals, or local facilities, as employee 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.
STUDY PROGRAMME
(CFUs are in brackets)

FIRST YEAR
To be chosen by the student 1 (2)
Other activities 1 (3)
Anatomy (6)
Job-oriented training activity 1 (15)
Physiology (7)
Scientific English (4)
Methodology of research (8)
Psychiatry and rehabilitation (8)
Psychiatry 1 (8)
Psychopedagogical Sciences (7)

SECOND YEAR
To be chosen by the student 2 (2)
Other activities 2 (1)
Job-oriented training activity (22)
Basics of pathology and pharmacology (5)
Medicine of development and rehabilitation (4)
Neuroscience (6)
Clinical psychiatry 1 (8)
Psychiatry and psychiatric rehabilitation 2 (6)
Psychotherapy (6)

THIRD YEAR
To be chosen by the student 3 (2)
Other activities 3 (5)
Job-oriented training activity 3 (23)
Healthcare management (6)
Final examination (5)
Clinical psychiatry 2 (8)
Psychiatry and psychiatric rehabilitation 3 (7)
Psychological sciences (4)

OVERVIEW
On May 13, 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 acquire and develop new capabilities when impaired by mental illness. Therefore, psychiatric rehabilitation technicians are fundamental and innovative members of modern multidisciplinary therapeutic teams. They fully participate in recent developments in mental health that foster recovery customised plans starting from the person’s values and objectives.

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, and 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”, “Villa Rosa”, and “Residenza Gruber”) 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 XXIII”, Cooperativa sociale “Dimora d’Abramo”, Associazione di Promozione Sociale “Il Tortellante”), 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 cooperate 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 Master’s Degree Programmes: Rehabilitation Sciences of Healthcare Professions; Cognitive Sciences and Decision-Making Processes.
Bachelor’s Degree / Health

Cardiocirculatory and Cardiovascular Perfusion Techniques

OVERVIEW

Today, cardiovascular diseases are the main cause of death and morbidity in Western countries. The Degree Programme aims to train healthcare professionals who can 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 freelance 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 following techniques: extracorporeal circulation, haemodynamic, electrophysiology, and ultrasound. Their tasks are 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 credit obligations. Bachelor graduates may access Vocational Master Programmes (1st level).

STUDY PROGRAMME

(CFUs are in brackets)

FIRST YEAR

Physics, statistics, and informatics (8)
Biological sciences (4)
Anatomy, histology (5)
General psychology, Labour psychology (4)
Physiology, General pathology, Pathological anatomy (7)
Sciences of prevention and health services (6)
Internship test (18)
Seminar activities and laboratory (radioprotection) (3)

SECOND YEAR

Cardiovascular diseases 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 II and imaging diagnostics (6)
Cardiac surgery, thoracic surgery (6)
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)

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OVERVIEW
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 healthcare 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 biologic 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. Class attendance and participation in internship are mandatory. 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 Hospital of Baggiovara, the Local Health Authority of Reggio Emilia-Arcispedale S.M.N., and the experimental zooprophylactic institute of Lombardy and Emilia Romagna.

JOB OPPORTUNITIES
Graduates will be able to carry out laboratory, analysis, and research activities as employees or self-employed practitioners in: laboratories of clinical-chemistry analyses; drug toxicology; endocrinology; immunohematology and transfusion haematology; microbiology; virology; pathological anatomy; forensic pathology, medical genetics, veterinary, etc. in public and private facilities; university research laboratories; zooprophylactic 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 programme in Biomedical Laboratory Techniques allows students to gain access, without any educational debts, to one-year first-level Master’s degree programmes in specific specialist areas (The “Coordination of healthcare professions master programme” is available at this university and compulsory to start the Technical Coordinator professional career), and to the second-level Master’s Degree Programme in Science of Technical and Diagnostic Healthcare Professions. The Master’s Degree Programme lasts two years and is a unique course open to all professionals in the technical-diagnostic area. It is compulsory for access to the role of Health Manager in the nursing-technical office of the Health Authorities and to hold the role of Coordinator/Director of Professional Training Activities in the specific degree programme. In addition, graduates can enrol in master’s degree programmes in Biology and Biotechnologies.

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OVERVIEW

The Bachelor’s Degree in Imaging and Radiotherapy Techniques trains professionals to be suitably skilled to manage equipment exploiting different types of energy (X-ray, gamma-rays, magnetic fields, ultrasound, etc.) for diagnostic or therapeutic purposes. The actual collaboration with medical physicists, radiologists, nuclear medicine doctors, and radiotherapists is distinctive of the teamwork of this job-oriented degree programme.

PROGRAMME CONTENTS

The teaching activity is organised in traditional lectures and job-oriented internships in wards of partner facilities. 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 importance are the theoretical and practical lessons aimed at learning the methods of diagnostic and therapeutic use of ionizing radiation, radioactive tracers, thermal energy, ultrasonic and magnetic resonance, as well as computer applications in the radiological area with reference to the processing and storage of images, reports, and data of clinical-health interest.

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.
STUDY PROGRAMME

(Grades are in brackets)

FIRST YEAR
- Anatomy (6)
- Psychopedagogical Sciences (7)
- Methodology of research (6)
- Physiology (7)
- English (4)
- Teaching workshop - 1st year (2)
- Internship - 1st year (16)
- Teaching activity to be chosen by the student 1 (3)
- Other: CAD 3D (1)
- General methodology of rehabilitation and kinesiology (9)

SECOND YEAR
- Pathologies of the musculoskeletal system (8)
- Basics of pathology and pharmacology (5)
- Specialist medicines and Occupational therapy (5)
- Medicine of development and rehabilitation (5)
- Internship II annual (20)
- Neuroscience (7)
- Rehabilitation methodologies in OT (5)
- Rehabilitation and TO in Child and Adolescent Neuropsychiatry (3)
- Teaching activity to be chosen by the student II (1)
- OTHER: Audiology (1)

THIRD YEAR
- Management in the healthcare area (6)
- Rehabilitation and occupational methodologies in labour medicine (4)
- Methodologies and techniques of special occupational therapy (7)
- Human sciences applied to OT (7)
- Teaching workshop - 3rd year: EBP (1)
- Other: Seminars (2)
- Teaching activity to be chosen by the student III (2)
- Internship - 3rd year (24)
- Final examination (7)

OVERVIEW

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.
STUDY PROGRAMME

(STUDY PROGRAMME includes online courses)

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
<th>FOURTH YEAR</th>
<th>FIFTH YEAR</th>
<th>SIXTH YEAR</th>
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</thead>
<tbody>
<tr>
<td>Physics and Informatics (6)</td>
<td>Biology and Genetics (11)</td>
<td>Microbiology and Virology (8)</td>
<td>Public Hygiene and Health (7)</td>
<td>Psychiatries (6)</td>
<td>Medical and Surgical Emergencies (6)</td>
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<tr>
<td>Histology and Embryology (7)</td>
<td>Human anatomy II (9)</td>
<td>Clinical Methodology (8)</td>
<td>Systematic Pathology 2 (10)</td>
<td>Diseases of the Nervous System (10)</td>
<td>Forensic and Labour medicine (9)</td>
</tr>
<tr>
<td>Chemistry and Biochemical Propaedeutics (7)</td>
<td>Human Physiology and Physiopathology (19)</td>
<td>General Pathology and Immunology (16)</td>
<td>Imaging Diagnostics (8)</td>
<td>Pathological Anatomy (12)</td>
<td>Medical Oncology (5)</td>
</tr>
<tr>
<td>English (9)</td>
<td>Basic medical and scientific methodology (5)</td>
<td>Epidemiology and Medical Statistics (7)</td>
<td>Systematic Pathology 3 (12)</td>
<td>Pharmacology (12)</td>
<td>ENT, Dental, and Eye</td>
</tr>
<tr>
<td>Human Anatomy I (10)</td>
<td>Systematic Pathology 1 (12)</td>
<td>Systematic Pathology 4 (10)</td>
<td>Psychology and Neurophysiology (8)</td>
<td>Paediatrics (6)</td>
<td>Diseases (9)</td>
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<tr>
<td>Biological Chemistry (9)</td>
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OVERVIEW

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. Alongside 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, also from the psychological point of view, and of the communication with the relatives are valued. 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 study programme and obtain the qualification to the exercise of the profession at the same time as the degree; after registering in the Order of Doctors, they can then immediately carry out the activity of doctor-surgeon; they will be able to access the admission tests for the various schools of clinical specialties and for the training school for general medical doctors, and then work in the various roles and clinical, health and biomedical professional contexts.

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www.cdlmedicina.unimore.it
STUDY PROGRAMME
(CFUs are in brackets)

FIRST YEAR
Behavioural sciences (3)
Chemistry and Biochemical Propaedeutics (7)
Physics, statistics, and informatics (12)
English language (8)
Teaching activity to be chosen by the student I-II (3+2)
Histology (8)
Biochemistry (8)
Human anatomy (9)

SECOND YEAR
Cellular and molecular biology (10)
Physiology (9)
Principles of dentistry I (6)
Principles of dentistry II (9)
Teaching activity to be chosen by the student III (1)
General pathology (9)
Microbiology and hygiene (14)

THIRD YEAR
Dental materials and prosthetic technologies (14)
Medical sciences I (13)
Pharmacology (7)
Imaging diagnostics (5)
Pathological anatomy (8)
Special pathology of dentistry (10)
Teaching activity to be chosen by the student IV-V (1+1)

FOURTH YEAR
Anesthesiological, Surgical and Emergency Sciences (14)
Restorative dentistry (8)
Endodontics (8)
Gnathology (4)
Medical sciences II (6)
Forensic and labour medicine (6)
Orthodontics (5)
Prosthesis I (7)

FIFTH YEAR
Periodontology (12)

Prosthesis II (9)
Orthodontics II (6)
Oral surgery (12)
Pathology and cervical-facial surgery (6)
Paediatric dentistry (8)
Implant prostheses (11)

SIXTH YEAR
Clinical odontostomatology (48)
Bioethics and psychology (3)

OVERVIEW
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 skills 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 also includes courses dealing with the problems of the doctor-patient relationship and the understanding of the principles underlying 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. More specifically, 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 dental 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.
STUDY PROGRAMME
(CFUs are in brackets)

1ST YEAR
General and inorganic chemistry (15)
Organic chemistry I (9)
Organic chemistry laboratory I (6)
Mathematics I (9)
Informatics (6)
Introduction to the chemistry laboratory (3)
English language (suitability) (3)

2ND YEAR
Analytical chemistry I (15)
Physical chemistry I (15)
Inorganic chemistry I (9)
Organic chemistry II (9)
Mathematics II (6)
Physics II (6)

3RD YEAR
Analytical chemistry II (9)
Physical chemistry II (9)
Environmental chemistry (6)
Internship and Final Examination (12)

4 Courses to be chosen by the student (24):
Instrumental methods of analytical chemistry (6)
Industrial and environmental chemistry (in English) (6)
Applied structural studies (6)
Applied Organic Chemistry (6)
Electrochemistry (6)
Development of bioactive molecules (in English) (6)
Analytical methodologies for quality control (6)

OVERVIEW

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 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 can apply the main techniques of chemical investigation 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 work as freelance professionals, subject to passing the qualifying examination and registering in the Chemists’ Order, Section B.

The Degree Programme in Chemistry provides direct access to the Master’s Degree Programme in Chemistry Sciences with no credit obligations (LM-54).
Physics

STUDY PROGRAMME
(CFUs are in brackets)

FIRST YEAR
Mathematical analysis 1 (9)
Geometry (6)
General physics I A (9)
Mathematical analysis 2 (6)
General physics II (9)
General physics I B (9)
English language (3)

SECOND YEAR
Physics laboratory II (9)
Mathematical analysis: complements (6)
General physics III (9)
Analytical mechanics (6)
Mathematical methods for physics (9)
Chemistry (6)
Numerical calculation (6)
Quantum mechanics (9)

THIRD YEAR
Physics laboratory III (9)
Atomic and Molecular Physics (9)
Physics of matter (9)
Programming elements for physics (6)
Internship (6)
Final examination (6)

Optional courses
Spectroscopy (6)
Laboratory of computational physics (6)
Electronics and data acquisition (6)
Nuclear physics and detectors (6)
Advanced topics of modern physics (6)

Elective examinations

As a general rule, all teachings of scientific degree programmes can be chosen (12)

OVERVIEW

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

The first two years include electromagnetism, classical mechanics and thermodynamics, and the fundamentals of quantum mechanics. Mathematics and information technology skills are further developed, with a special focus on how computers can be used for scientific applications, along with 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.
Informatics 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 technologic 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 graduates in informatics are, and for ever will be, among the most needed professionals in the labour market.

The Degree Programme in Informatics 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 Informatics/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 specialized Informatics 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 such as workshops, practical exercises, individual and group projects aimed to develop real applications.

JOB OPPORTUNITIES

Graduates in Informatics 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 in Informatics 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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www.fim.unimore.it/L/INF
Mathematics

STUDY PROGRAMME
(CFUs are in brackets)

FIRST YEAR
Algebra A (9)
Linear algebra (9)
Mathematical analysis A (15)
Physics A (9)
Geometry (6)
General informatics (9)
English (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 optional teaching to choose from the following:
Markov chains (6)
Numerical analysis (6)

One optional teaching to choose from the following:
Algebraic topology (6)
Geometry of curves (6)
Principles of mathematics I (6)
Measure theory (6)
Theory of functions (6)

One optional teaching to choose from the following:
Algorithms and data structures (9)
Planning I (9)
Physics laboratory (9)

Activities to be chosen by the student (12)
Additional training activities (3)
Final examination (6)

OVERVIEW

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 backbone is also fundamental for those wishing to specialize in applied mathematics or start a career in scientific research, and for those willing to study teaching and learning methodologies and to work in the field of mathematical education.

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. Courses in Physics and Informatics are also provided, along with Computational and Computer lab activities. A wide range of additional courses are offered to give students the opportunity to choose different training paths. Through practical exercises, workshops and drawing up the degree thesis, students have the opportunity to independently develop their abilities and interests.

JOB OPPORTUNITIES

The first degree in Mathematics may continue with: i) a Master’s Degree in Mathematics based on a two-year program, focused on applied mathematics or scientific research or mathematical education; ii) a short vocational Master (one year duration), mainly oriented to mathematical applications. As far as employment opportunities are concerned, approximately half of the Mathematics graduates work as Mathematics teachers or as experts in the dissemination of science. The remaining half are mainly involved in highly qualified technical or professional support activities in 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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www.fim.unimore.it/L/MAT
STUDY PROGRAMME
(CFUs are in brackets)

FIRST YEAR
- Mathematics and informatics (12)
- General chemistry (8)
- Physical geography and cartography of the territory (6)
- Geology with rocks and soil activity laboratory (9)
- General physics (6)
- Mineralogy (9)
- Palaeontology and evolution (6)
- English (6)

SECOND YEAR
- Geophysics with elements of seismology (6)
- Geochemistry (6)
- Petrogenesis and geodynamics (12)
- Stratigraphic geology and geological maps (12)
- Structural and tectonic geology (9)
- Geomorphology and climatic changes (6)
- Palaeontology with laboratory (8)

THIRD YEAR
- Technical geology and hydrogeology for civil works and environment (12)
- Geological mapping (9)
- Geographic information systems (GIS) and digital cartography (6)
- Mineralogical analysis for the study of geomaterials (6)

- 6 credits (CFU) obtained from the following examinations:
  - Geology of Italian soil (6)
  - Sedimentary environments (6)
  - Fossils and paleoenvironments (6)
  - Internship (5)
  - Activities to be chosen by the student (12)
  - Thesis/Final examination (3)

Teachings that can be chosen by the student may be those included in the Degree Programme and/or other Programmes of the University, provided that they are consistent with the training objectives of the degree.

OVERVIEW
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.

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. Thanks to agreements with foreign universities, part of the programme may be carried out abroad.

A pre-course in Mathematics is held before the beginning of classes. For information on procedures and dates: www.dscg.unimore.it

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 degree programme in Geological Sciences provides access to the Master’s Degree in Geosciences, Georisks and Georesources (LM-74). Students may enrol in other scientific, technological or teaching-oriented Master’s degrees, subject to verification of the admission requirements. They may also enrol in first-level master programmes and short professional programmes.

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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Bachelor's Degree / Science
Natural Sciences

STUDY PROGRAMME
(CFUs are in brackets)

FIRST YEAR
Assessment of additional training obligations – (no CFUs)
Chemistry (9)
Mathematics (9)
Comparative anatomy with elements of cytology and animal histology (12)
English (6)
Botany (10)
Zoology (9)
Physical geography (6)

SECOND YEAR
Physics (6)
Organic chemistry (6)
Mineralogy (12)
Genetics (7)
Biology of mammals: diversity, adaptation, conservation (6)
Geomorphology (6)
Geology (12)
Palaeontology (10)

THIRD YEAR
Ecology (10)
Petrography (8)
Environmental chemistry (6)

One teaching to choose from:
- Minerals of soils and sediments (6)
- Paleoenvironmental evidence (6)
- Diversity of terrestrial plants (6)

12 CFUs to be chosen by the student
Training internship (6)
Degree thesis (6)

OVERVIEW
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 improvement of natural systems.

PROGRAMME CONTENTS
The Bachelor’s Degree Programme in Natural Sciences offers an inspiring atmosphere with an excellent professor/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 assets offer students the opportunity to enter the world of work.

JOB OPPORTUNITIES
The Degree in Natural Sciences trains students to professional jobs such as Environmental control Technicians, Agronomists and forestry Technicians, Specialised Guides, Teachers in vocational training and similar, Museum and library Technicians and similar. 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); Agrotechnician and Agrarian Expert.

The degree in Natural Sciences allows access, with no credit obligations, 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 university vocational master programmes (1st level).
OVERVIEW

The Bachelor’s Degree Programme in Biotechnologies 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 characterised by a strong interdisciplinary 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 such as mathematics and physics, which 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 professors’ 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 the biomedical field and 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. Biotechnologists can take the State Examination for the exercise of the profession of Junior Biologist - Pres. Decree no. 328 of 05/06/2001. 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.
**OVERVIEW**

Biology is a core science in society. 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, then the organism, populations and communities, up to 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 degree thesis and are carried out in the university laboratories or in external companies and 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 enables students to enrol in the Master’s Degree Programme in Medical Biotechnologies, Industrial Biotechnologies, and Experimental and Applied Biology.

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**Campus:** via Giuseppe Campi, 213/d 41125 Modena  
**Duration:** 3 years  
**Training credits (CFUs):** 180  
**Degree Class:** L-13 Biological Sciences  
**Study qualification required:** High school diploma  
**Admission:** Limited number of places (120), details in the call for applications.

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**STUDY PROGRAMME**  
(CFUs are in brackets)

**FIRST YEAR**  
Botany (9)  
General genetics (7)  
Cytology and Animal histology (7)  
General chemistry (8)  
Organic chemistry (8)  
Mathematics (7)  
Physics (8)  
English (3)

**SECOND YEAR**  
Plant physiology (5)  
Microbiology (6)  
Biology of Invertebrates (8)  
Molecular biology and molecular techniques (9)  
Biochemistry (7)  
Biology of development and Cell biology (10)  
Ecology (7)  
Laboratory of experimental biology (7)  
Informatics (3)

**THIRD YEAR**  
Comparative anatomy (8)  
Pharmacology, Toxicology, and Hygiene (10)  
Immunology and General pathology (8)  
Physiology (9)  
Subjects to be chosen by the student (12)  
Internship and Final examination (12+2)

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www.dsv.unimore.it/L/ScBio
OVERVIEW

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 producing materials, machinery and equipment, adjuvants, ingredients and pesticides.
Pharmaceutical Chemistry and Technology

STUDY PROGRAMME

(see brackets for CFUs)

FIRST YEAR
Human Anatomy (6)
Animal Biology (6)
General and Inorganic Chemistry (9)
Principles 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 II (9)
General physiology (7)
Analysis of medicinal products (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 I (10)
Laboratory for extractive and synthetic drug preparation (10)
Physical methods of organic chemistry (6)
Food chemistry (6)
Pharmacognosy (6)
Pharmacology and pharmacotherapy - Molecular pharmacology (6+6)

FOURTH YEAR
Instrumental analysis of medicinal products (10)
Pharmaceutical and toxicological chemistry II (10)
Technology, socioeconomic and pharmaceutical legislation and galenic laboratory (12)

FIFTH YEAR
Practical-professional internship (30)
Final examination (30)

OVERVIEW

Are you fascinated by science subjects? 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 be a scientist in a laboratory dedicated to the design, development, production and control of drugs? The single-cycle Master’s Degree in Pharmaceutical Chemistry and Technology offers you these opportunities. Through a well-structured activity plan that focuses on the needs of the pharmaceutical and health products industry, the programme provides skills and know-how in the field of production, quality control and distribution of pharmaceuticals, foods, cosmetics and biomedical products. The wide training activities allow graduates to access both the Orders of Pharmacists and Chemists.

Even in the year of the pandemic, the employment rate one year after graduation remained high (close to 75%) and, considering the average of the last three years, the value is well over 80%. The effectiveness of the Degree is more than satisfactory; in fact, only 6% of graduates consider the Degree in the work carried out to be ineffective (Alma_laurea 2021 Survey).

PROGRAMME CONTENTS

The single-cycle Master’s degree programme in Pharmaceutical Chemistry and 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...) 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, 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 Pharmaceutical Chemistry and Technology are patenting and registration of drugs, marketing and workshop management for the production of galenics and cosmetics. Once the qualification has been obtained, graduates may work as chemists or pharmacists.

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www.dsv.unimore.it/LU/CTF
Single-cycle Master’s Degree / Life Pharmacy

STUDY PROGRAMME (CFUs are in brackets)

FIRST YEAR
Mathematics and Physics (12)
General and inorganic chemistry (10)
Plant biology (6)
Organic chemistry (12)
Analytical chemistry (6)
Pharmaceutical botany (6)
English language (5)

SECOND YEAR
Human anatomy (8)
Biochemistry (10)
Analysis of medicinal products I (9)
General physiology (9)
Microbiology (6)
Applied biochemistry (6)

THIRD YEAR
Pharmaceutical and toxicological chemistry I (11)
General pathology (with elements of medical terminology) (10)
Pharmaceutical and toxicological chemistry II (11)
Pharmacology and pharmacotherapy - Pharmacogenetics and pharmacogenomics (6+6)

Hygiene (6)
Pharmacognosy and phytotherapy (10)

FOURTH YEAR
Analysis of medicinal products II (9)
Pharmaceutical regulation and pharmacoconomics (7)
Pharmaceutical technology and innovative pharmaceutical forms (13)
Toxicology (10)
Laboratory of galenics (6)
Dietary products (8)

FIFTH YEAR
Cosmetic products (6)
Health and communication (6)
Subjects to be chosen by the student (12)
Other training activities (7)
Practical-professional internship (30)
Final examination (15)

OVERVIEW
Are you interested in a profession that deals specifically with personal health and well-being issues? 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 a job mainly as pharmacist in public or private pharmacies or, after obtaining a specialization in Hospital Pharmacy, in hospitals and local health authority facilities (AUSL). 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 will also be able to apply their skills in the field of healthcare information and training or production and trade of drugs and healthcare products. Graduates in pharmacy find employment within approximately one year after graduation (89%, AlmaLaurea 2021 data). In their opinion, their degree is very effective for their job, and 100% of graduates, one year following graduation, are overall satisfied with the Department of Life Sciences degree programme (AlmaLaurea 2021 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 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 (Portugal, Spain, Switzerland, Greece, England, France, Germany, Hungary, and the Czech Republic).

JOB OPPORTUNITIES
At the end of the university, students will graduate having acquired specific skills in the field of distribution of medicines and health products, services in pharmacy and health education. These skills open up a range of job opportunities as associate pharmacist, manager or owner in a private pharmacy or a parapharmacy and after obtaining the specialisation in Hospital Pharmacy at the hospitals and territorial structures of the local health authorities (ASL). Master’s Graduates in Pharmacy can also apply their knowledge in the field of professional drug information, playing a primary role in the presentation of therapeutic innovations as medical sales representatives. Master’s graduates in Pharmacy may work as healthcare products and drugs...
experts (cosmetics, dietetic and nutritional products, herbal products, medical-surgical aids, healthcare products, etc.), both in the production and intermediate distribution fields.

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www.dsv.unimore.it/LU/farma
Constructions and Territorial Management

Bachelor’s Degree / Technology

Double study qualification with the University of the Republic of San Marino.

STUDY PROGRAMME (CFUs are in brackets)

FIRST YEAR:
- Mathematical analysis and geometry (9)
- Physics (6)
- Chemistry laboratory and building materials (6)
- Informatics and statistics workshop (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)
- Laboratory of Energetics and plants (9)
- Economics and corporate accounting (9)
- Architectural and urban composition with laboratory (6)
- Building science with laboratory (9)
- Laboratory of land-use planning and town planning (6)
- Laboratory of environmental sustainability (6)

THIRD YEAR:
- Real estate appraisal and valuation with laboratory (9)
- Examinations to be chosen by the student (12)
- Internship (professional experience and construction site) (51)
- Degree thesis - Final examination (6)

Elective examinations:
- Law of contracts, tenders and civil works (6)
- Advanced English (3)
- Environmental law (6)
- Labour law (6)
- Legislation on public works and safety at work (6)
- CAD (3)
- Soft skills for sustainability (3)

OVERVIEW

The job-oriented Degree Programme in Constructions and Territorial Management (degree class L-P01) offers an adequate mastery of scientific and technological methods and contents by acquiring specific professional skills and competences required in the field. 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 may be associated with the graduate surveyor, as identified by the recent EU regulation on intermediate professions (MD 446/2020). The Degree Programme qualifies graduates as professional surveyors.

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 valuations and curricular internship.

JOB OPPORTUNITIES

The purpose of the Programme is to train - in the sector of constructions and civil and rural infrastructure - a polyvalent technical figure, versatile and with a strong focus on the use of 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 cadastral management and update; estimate valuations and work accounting.

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https://www.ingmo.unimore.it/site/home/didattica/lauree-professionalizzanti/costruzioni-e-gestione-del-territorio-2122.html
STUDY PROGRAMME
(CFUs are in brackets)

FIRST YEAR
Mathematical analysis I (9)  
Mathematical analysis II (9) 
Informatics (6) 
Applied geology (6) 
General physics (9) 
Verification of suitability in English (3)

Environmental Engineering Curriculum:  
Fundamentals of chemistry (6)  
Fundamentals of chemistry for the environment (9)  
Geometry and linear algebra (6)

Civil Engineering Curriculum:  
Fundamentals of Chemistry (6)  
Drawing (6)  
Geometry (9)

SECOND YEAR
Technical physics (9) 
Hydraulics and hydraulic constructions (9) 
Rational mechanics and statistics (9) 
Geomatics (9) 
Building science (9)

Environmental Engineering Curriculum:  
Sanitary and environmental engineering (9)

Civil Engineering Curriculum:  
Chemistry applied to materials (9)

THIRD YEAR
Environmental Engineering Curriculum:  
Geotechnics (6)  
Chemistry applied to materials (9)  
Designs of structures for environmental engineering (9)

Plants for environmental sanitary treatment (12)  
Energy machinery and systems (6) 
Civil Engineering Curriculum:  
Geotechnics (9)

Building technique (12)  
Complements of building science (12)  
Structure dynamics (9)

Common to both curricula:  
Final examination (3)  
Internship/project activity/elective examinations (up to 180 CFUs in total)

Elective teachings for all:  
Law of contracts, tenders and civil works (6)  
Business economy and administration (6)  
Soft skills for sustainability (3)  
CAD (3)  
Advanced English (3)

Environmental Engineering Curriculum:  
Environmental law (6)  
Labour law (6)

Civil Engineering Curriculum:  
Chemistry applied to materials (9)  
Building technique (12)  
Complements of building science (12)  
Structure dynamics (9)

Common to both curricula:  
Final examination (3)  
Internship/project activity/elective examinations (up to 180 CFUs in total)

Elective teachings for the Environmental Engineering Curriculum:  
Environmental law (6)  
Labour law (6)

Elective teachings for the Civil Engineering Curriculum:  
Numerical calculation (6)  
Legislation on public works and safety at work (6)

OVERVIEW
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).
Bachelor’s Degree / Technology

Human centered medical system engineering

Available in mixed mode (blended) Jointly with the University of Verona and the University of Trento. Administrative headquarters at the University of Verona.

STUDY PROGRAMME
(CFUs are 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 II: applications and mathematical methods (12)
Analogue 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)
Acquisition and analysis of biomedical images (6)
Methods and devices for telemedicine (6)
Methods, measurement techniques and sensors (6)
To be chosen by the student (6)
Alternative teaching (6)
English language - language skills (3)
Design and development of medical technologies (9)
Final examination (6)

OVERVIEW

The Degree Programmes aims to train professionals who are able to 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 with regard to scientific, preventive, diagnostic, therapeutic, and rehabilitative aspects, but also from a social, moral, legal and psychological point of view.

STUDY QUALIFICATION REQUIRED:
High school diploma

ADMISSION:
Unlimited, non-selective entry test.

STUDY PROGRAMME
(CFUs are 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 II: applications and mathematical methods (12)
Analogue 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)
Acquisition and analysis of biomedical images (6)
Methods and devices for telemedicine (6)
Methods, measurement techniques and sensors (6)
To be chosen by the student (6)
Alternative teaching (6)
English language - language skills (3)
Design and development of medical technologies (9)
Final examination (6)

OVERVIEW

The Degree Programmes aims to train professionals who are able to 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 with regard to 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 order of biomedical and clinical engineers, section B.
Bachelor’s Degree / Technology
Vehicle Engineering

OVERVIEW

The Bachelor’s Degree Programme is intrinsically connected with the automotive industries operating in the area. Thanks to their cross-cutting and broad spectrum training, graduates may access any industrial sector, even if not strictly connected with the automotive and motorcycle 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.

In addition to classroom lectures, laboratory activities are also provided. 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 interdisciplinary 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 credit obligations.

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http://www.ingmo.unimore.it/site/home/didattica/lauree/ingegneria-del-veicolo.html

STUDY PROGRAMME
(CFUs are in brackets)

FIRST YEAR
Mathematical Analysis I (9)
Industrial technical drawing (6)
Geometry and linear algebra (6)
Mathematical analysis II (9)
General Physics (12)
Chemistry (6)
English (3)

SECOND YEAR
Rational Mechanics (9)
Materials for the vehicle (6)
Technical Physics (9)
Fundamentals of sensors (6)
Electrical Engineering and Electrical Machinery (9)
Numerical Calculation and Mathematical Software (9)
Fundamentals of Machinery Construction (6)

THIRD YEAR
Machinery construction (9)
Fundamentals of machines and engines (12)
Fundamentals of design and CAD (6)
Vehicle Mechanics (12)
Vehicle Technology (9)
Set up and development of SAE* formula vehicles (9)
Elective subjects (12)
Business economy and administration (6)
Safety of industrial plants (6)
Advanced English (3)
Final examination (6)
Internship/Project activity (3/9/15)

Campus: via Pietro Vivarelli, 10
41125 Modena
Duration: 3 years
Training credits (CFUs): 180
Degree Class: L-9
Industrial engineering

Study qualification required:
High school diploma

Admission:
Limited number of places, details in the call for applications.
OVERVIEW

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 Informatics, 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 Electronics Engineering allows graduates to access the International Master Degree in Electronic Engineering, fully provided in English, with no credit obligations.
Bachelor's Degree / Technology

Management Engineering

STUDY PROGRAMME

(CFUs are in brackets)

FIRST YEAR

Fundamentals of mathematical analysis (12)
Applied mathematics (9)
Chemistry (6)
General physics I (6)
Fundamentals of programming (6)
Geometry and linear algebra (9)
English-Suitability (3)

SECOND YEAR

Physics II (6)
Automated controls (6)
Fundamentals of business administration (9)
Principles and applications of electricity (6)
Fundamentals of operational research (6)
Systems and organisational behaviour (9)
Technologies and industrial plants (12)
Information systems (12)

Third year

Business management (6)
Logistics and production management (9)

Ict-data management curriculum
Telecommunications 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 plants for digital and creative industries (6)
Industrial electronic systems (9)
Methods and algorithms for optimisation in the digital and creative industry (9)

Energy production curriculum
Design of sustainable industrial plants and buildings (9)

OVERVIEW

Management Engineers have a versatile professional profile, characterised by a strong engineering and multidisciplinary approach to problems. The degree programme is divided into four curricula: 1) Production – 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:

Production - Goods and services, focusing on the design of products and processes for the manufacturing and service industry.
Production - Energy, focusing on identifying and optimising the energy needs of the production processes for the realisation of products or for the provision of services.
ICT - Digital and creative industries, focusing on the innovative digital and creative industries (e.g. highly-automated companies, including collaborative robotic solutions, enterprises in the fashion sector, enterprises offering solutions for the Web).

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.

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STUDY PROGRAMME

(CFUs are in brackets)

FIRST YEAR
Fundamentals of informatics (9)
Geometry (9)
Mathematical analysis I (9)
Data structures and algorithms (9)
Mathematical analysis II (8)
Applied Mathematics and Statistics (5)
Business economy and administration (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)
Fundamentals of telecommunications (9)
Computer networks (9)
Web and mobile technologies (6)
To be chosen by the student (15)
Final examination (3)

OVERVIEW

The IT Engineer is the profession of the future because everything around us is governed by software and will be increasingly so. Companies need IT Engineers, that is why a university degree in Computer Engineering ensures an easy access to the job market: the demand for IT Engineers in the job market is indeed definitely higher than the number of graduates. For girls, becoming an IT Engineer may offer unlimited professional opportunities: see for example www.ragazzedigitali.it.

PROGRAMME CONTENTS

47% of the subjects studied are specific of Computer Engineering and include laboratory practical activities aimed at immediately verifying the student’s learning level. 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 93% confirm that “the study programme has proven to be effective in their job”.

JOB OPPORTUNITIES

You will become an IT Engineer with a broad training that will allow you to understand all IT aspects in its multiple sectors. You 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 local (Emilia Romagna) 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: 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 with no credit obligations.

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Campus: via Pietro Vivarelli, 10
41125 Modena
Duration: 3 years
Training credits (CFUs): 180
Degree Class: L-8
Information engineering

Study qualification required:
High school diploma
Admission: Limited number of places, details in the call for applications.
OVERVIEW

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 Programme represents a unique opportunity for graduates to be suitable in the job environment of the next decades and to allow companies to successfully face the innovation challenges arising from a manufacturing world which is increasingly competitive on a global scale.

PROGRAMME CONTENTS

The study subjects focus on basic topics that are typical of engineering and specific for IT Engineering, mainly dealing with the design and development of software and IT services, the architectures of calculators and IoT devices, the systems and cloud platforms, artificial intelligence and machine learning, safety 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. Students’ training is completed with Information Engineering subjects, integrated by those of Industrial Engineering such as industrial design, smart manufacturing and industrial management to operate in increasingly automated and flexible modern manufacturing contexts.

JOB OPPORTUNITIES

You will become Computer 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 gives 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.

STUDY PROGRAMME

(CFUs are in brackets)

FIRST YEAR

- Fundamentals of Analysis (9)
- Fundamentals of Programming (9)
- Computer architecture (9)
- Algebra and Geometry (6)
- System programming (9)
- Physics (9)

SECOND YEAR

- Numerical and Statistical Analysis (9)
- Industrial Automation (9)
- Energy machinery and systems (9)
- Databases (9)
- Internet, Web, and Cloud (9)
- Smart Design and Manufacturing (12)
- Industrial Informatics (6)
- Cyber-physical Security (6)
- Final examination (3)

THIRD YEAR

- Information Engineering subjects, integrated by those of Industrial Engineering such as industrial design, smart manufacturing and industrial management to operate in increasingly automated and flexible modern manufacturing contexts.

Internship (9)

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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. In addition, graduates in Mechanical Engineering may access any other industrial sector, even if not strictly mechanic-related, and therefore the global demand for young mechanic engineers is strong and far exceeds the supply.

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 students the opportunity to study abroad and approach the job market even before obtaining the degree by taking up internships in companies.

JOB OPPORTUNITIES

Graduates obtain the Bachelor’s Degree in Mechanical Engineering.
OVERVIEW

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 mechanical 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 distinctive feature of the two curricula are as follows:

- Smart product: the programme focuses on topics that are typical of drives and energy static conversion, monitoring, diagnostics and modelling of components and product development.
- Factory of the Future: the programme completely focuses on topics of business economy and innovation organisation, fluid dynamics 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 with no credit obligations.
STUDY PROGRAMME (CFUs are in brackets)

FIRST YEAR
Mathematics for engineering with Laboratory (4+2)
Body Physics (6)
Industrial thermodynamics, with Laboratory (2+4)
Applied electronics with Laboratory (3+3)
Computer programming with Laboratory (3+3)
3D CAD design with Laboratory (3+3)
Technical English (6)
Safety regulations for work places with Laboratory (3+3)

SECOND YEAR
Systems supporting decision-making with Laboratory (3+3)
Architectures and Programming of Industrial Controllers, with Laboratory (3+3)
Fluid Automation with Laboratory (3+3)
Industrial Design Tools and Methods (6+3)
Internship 2nd year (30)

THIRD YEAR
Internet of things with Laboratory (2+4)
Inverters and electric machines for the industry, with Laboratory (2+4)
Logistics and production systems with Laboratory (3+3)
Collaborative robotics with Laboratory (2+4)
Safety of production systems, machines and robots, and Laboratory (2+4)
Internship 3rd year (30)
Activities to be chosen by the student (6)
Final examination (3)

OVERVIEW

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 soft 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 technical 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. In particular, graduates will be able to work in manufacturing companies belonging to the mechanic, mechatronic and hydraulic sector;
- Graduate technician in the technical office for the development of automation systems for the industry: graduates may work in companies providing industry automation systems and services, such as machinery for industrial automation, systems for automated logistics, and systems for the automation of manufacturing control. In particular, graduates will be able to work in manufacturing companies in the mechanic and mechatronic field, logistic companies, companies for industrial automation;
- 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. In particular, graduates will be able to work in manufacturing and utility companies, and consulting firms, or work as freelance professionals.
- Freelance professionals registered in the Association of Graduate Industrial Technicians.
Master’s Degrees*

(*) The activation of the courses is, however, subject to the successful completion of the ministerial accreditation process; updates and study plans will be available online at: www.unimore.it

**Society and Culture**

**Master’s Degrees**

*Modena campus*
- Data analysis for economics and management
- Financial analysis, Consulting and Management
- Anthropology and history of the contemporary world
- General management and consulting
- Economics, public policies, and sustainability
- Philosophy
- International Management
- Languages for Communication in International Enterprises and Organisations
- Languages, cultures, communication
- Labour relations

*Reggio Emilia campus*
- Economics and law in business and public administration
- Management and business communication
- Media Education for literary disciplines and publishing
- Advertising, digital communication and creative business processes
- Pedagogy

**Life**

**Master’s Degrees**

*Modena campus*
- Experimental and applied biology
- Industrial biotechnologies
- Medical biotechnologies

*Reggio Emilia campus*
- Food safety and control
- Food Safety and Food Risk Management
- Integrated sustainability of agricultural systems

**Sciences**

**Master’s Degrees**

*Modena campus*
- Didactic and Communication of Sciences
- Physics
- Geosciences, georisks, and georesources
- Informatics
- Mathematics
- Quaternary, prehistory and archaeology
- Chemical Sciences

*Reggio Emilia campus*
- Economics and law in business and public administration
- Management and business communication
- Media Education for literary disciplines and publishing
- Advertising, digital communication and creative business processes
- Pedagogy

**Technology**

**Master’s Degrees**

*Modena campus*
- Electronic Engineering for Intelligent Vehicles
- Advanced Automotive Engineering
- Electric Vehicle Engineering
- Electronics Engineering
- Civil and Environmental Engineering
- Materials Engineering
- Vehicle Engineering
- Computer Engineering
- Mechanical Engineering

*Reggio Emilia campus*
- Digital Automation Engineering
- Management Engineering
- Mechatronic Engineering

**Health**

**Master’s Degrees**

*Modena campus*
- Health and sport

*Reggio Emilia campus*
- Nursing and midwifery sciences
STUDY PROGRAMME

(CFUs are in brackets)

FIRST YEAR

Teaching 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 modeling (9)

SECOND YEAR

Teaching activities - Economics Curriculum
Advanced macroeconomics (9)
Advanced microeconomics (6)
Law of digital economy (6)
Digital business strategy (6)

A teaching activity to be chose from the following:
- Economics and politics of sustainable development (6)
- Decision-making methods for economy and finance (6)
- Econometrics of time series (6)
- Macroeconomic policies (6)

Teaching activities - Management Curriculum
Data driven human resource management (6)
Law of digital economy (6)
Economics and politics of sustainable development (6)
Data driven marketing (9)

A teaching activity to be chose from the following:
- Decision-making methods for economy and finance (6)

Teaching activities of the common path
- Teaching activities to be chosen by the student (12)
- Final examination (18)

OVERVIEW

The Master’s Degree Programme aims to train economists, politicians, and businessmen with a solid quantitative knowledge, who are expert in the extraction, processing, visualisation and analysis of data of economic and business interest, as well as in the communication of results.

It has been defined following an intensive and profitable consultation with the Stakeholders: representatives of national and international economic institutions; representatives of the main economic associations of the local territory; representatives of leading enterprises and associations at regional and national level in the financial, industrial, and business consultancy field, in particular in the fields of data analysis and ICT and personnel management and services; national and international PhD coordinators.

The consultation revealed two strong motivations for the activation of the new degree programme:

- the existence of a growing demand for the training profile devised, both for digital companies and for those who intend to become digital;
- the importance of developing data analysis skills and their interpretation in a strategic key to understand the business value of the information in the data, also in relation to the ability to manage business processes.

PROGRAMME CONTENTS

The Degree Programme is an interclass Master’s Degree in LM56 (Economics) and LM77 (Economics and Business Sciences).

The Degree Programme includes two curricula, Economics and Management, with a broad base of common teachings that provide solid IT, statistics, and econometrics skills, advanced knowledge of industrial, business and financial economics, legal content related to the current legislation on the use and processing of data.

The economic 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 skills in marketing, human resource management, and business management in general, with a focus on data usage aspects for business decisions.

The teaching methodology includes individual and group projects, also carried out in companies and/or external bodies, with a final presentation of the results; the involvement of business managers; teaching
materials or lessons in English.

**JOB OPPORTUNITIES**

Students may choose between two professional profiles:
- Data analyst for economic-financial institutions;
- Expert of data-driven business processes.

The first profile has employment opportunities in economic and financial institutions, public and private study centres, public administration, national and international organisations (such as ISTAT, Eurostat, OECD, Banca d’Italia, ECB, IMF), statistical and research offices of local authorities and private enterprises.

The skills gained are essential to continue the studies in PhD programmes in economics, both in Italy and abroad.

The second profile offers employment opportunities in native digital enterprises or businesses involved with processes of innovation or data-driven transformation; related business consulting activities.

The skills gained enable students to continue their studies in PhD programmes in management.

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OVERVIEW

The Degree Programme in Financial analysis, consulting and management is aimed at training master graduates to carry out highly professional roles in the management of credit companies and in financial management of enterprises, in the analysis, consulting and portfolio management and in measuring and covering the risks by means of 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), macrofinance 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. Examples of actual job opportunities of recent graduates are as follows: 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, Voilàp Digital), insurance companies (including SACE, Assicurazioni generali, Unipol, CredemVita), Italian and foreign investment companies (Brevan Howard, Optima, Pharus, Prometheus), auditing firms (including Deloitte, Ernst&Young, PwC), national and foreign institutions (including Bank of Italy, ECB). Graduates in Financial Analysis, Consulting, and Management are also registered in the Orders of Chartered Accountant, Accountant, Actuary. Other graduates in Financial Analysis, Consulting, and Management operate in the university world as lecturers, PhDs and PhD students.
OVERVIEW

Anthropology and history of the contemporary world is an interclass Master’s degree programme unique of its kind. 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 tools that will enable them to assess current issues in a comparative historical perspective, open to the whole range of human behaviours. The course main objective is to provide the suitable tools and methodologies to understand the complex contemporary world and analyse its intrinsic cultural conflicts by following an 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 organisations, in the field of cooperation, development and humanitarian action. 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. Graduates who choose history will also find jobs in public administration, museums, archives and libraries;

those who choose anthropology can find employment in institutions dealing with migration processes, cultural mediation, and social issues.

Students will be able to continue their studies and enrol in the several History and Anthropology advanced master programmes, among which the cutting-edge Public History advanced master programme, started in the academic year 2015-16, as well as in Doctoral research programmes.

This degree programme also allows students to get the credits that, with any additions required, would allow them to access training internships and apply for the selections to get the qualification for teaching historical and philosophical subjects.

Campus: large SANT’EUFEMIA, 19 - 41121 Modena
Duration: 2 years
Training credits (CFUs): 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
Study qualification required: Bachelor’s Degree
Admission: unlimited access, assessment of previous career.

STUDENT PROGRAMME

(CGUs are 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
Digital sources and data for historical research (6)
Philosophies of human nature: module of philosophical nature + module of history of ideas (12)

Students can choose from (9):
- Economic anthropology
- Ethnography

Students can choose from (9):
- Nations and nationalisms
- History of social and political movements

Elective credits (9+2)
Thesis (13)

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www.dslc.unimore.it/LM/ASMC
STUDY PROGRAMME

(CFUs are in brackets)

FIRST YEAR
Financial analysis and advanced management control (9)
Statutory financial statements and IAS/IFRS (9)
Company Law (6)
Tax Law (advanced) (9)
Industrial economy (12)
Project management (6)
Statistical learning and prediction from data (6)

SECOND YEAR
Strategic analysis and business plan (9)
Business financial decisions (6)
One exam chosen from the following
- Extraordinary corporate transactions (6)
- Strategy of sustainable development of enterprises (6)
One exam chosen from the following
- Business intelligence (6)
- Law of business crises (6)
- Advanced marketing (6)
- Public management (public accounting) (6)
- Public management (Economics of public enterprises) (6)
- Corporate auditing (6)
- Company assessment (6)
Training activities to be chosen by the student (12)
Internship/English language (6)
Final examination (18)

OVERVIEW

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.
Economics and law in business and public administration

STUDY PROGRAMME

(Units are in brackets)

FIRST YEAR

English language (6)
Statistic models for corporate decisions (9)
Economy and performance of public and private businesses (9)
To be chosen by the student (9)
Curriculum: International Business and Law
Commercial law (9)
Transnational labour law (6)
International economics (12)
Curriculum: Public Management
Comparative public management (6)
Administrative law (9)
Labour law in public administration (6)
Financial sciences and welfare systems (12)

SECOND YEAR

Banking law (6)
Sociology of organisations (9)
Internship - other activities (9)
Final examination (15)
Curriculum: International Business and Law
International business management (9)
International trade law (6)
International business organisation (6)
Curriculum: Public Management
Accounting and management control in public companies (9)
European union law (6)

OVERVIEW

The Master’s degree programme in Economics and law in business and public administration meets the need to train young managers and directors able to operate in organisations and institutions that are mainly involved in the fast evolution of the public and private sectors. The programme includes the specific features of the two classes in which it was established, LM-77 Economic and Business sciences and LM-63 Public Administration sciences, and is therefore an interdisciplinary programme. The programme is jointly organised by the Departments of Communication and Economy (educational and managerial headquarters), Marco Biagi Economics and Law.

PROGRAMME CONTENTS

The training programme follows complementary directions, which allow students to acquire economic and business skills for the strategic management of public and private organisations. The programme also gives the opportunity to develop expertise in the legal field, in order to manage and coordinate contractual and institutional relations with the reference environment. Furthermore, it provides for the acquisition of fundamentals of political economy, sociology, statistics. Training activities are divided into two curricula: “International Business and Law” and “Public Management”. The first one integrates the basic knowledge with the economic and legal skills required to operate in international markets. Whilst the second one explores the knowledge required to carry out managerial roles in public administration. Educational activities in the classroom also offer the opportunity to listen to the recordings of the lectures via ONELab services; the service also includes a timetable for contacting the professors online in addition to the traditional visiting hours.

JOB OPPORTUNITIES

Graduates in Economics and Law for Enterprises and Public Administrations will be able to carry out high responsibility functions within public and private companies, public institutions, trade associations, offices, studies and research centres. Graduates in class LM-77 may register in the Registry of Trainee Accountants. The programme allows graduates to enter the job market as managers in companies operating in the industrial and service sectors, as independent professionals, experts and consultants.

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www.dce.unimore.it/LM/EDIPA
STUDY PROGRAMME
(CFUs are in brackets)

FIRST YEAR
Analysis of public policies (12)
Data Management (12)
Administrative and local government law (6)
Local and global development (6)
Health economics and policies (9)
6 CFUs to choose from the following teachings:
- Governance of territorial welfare (6)
- Analysis and funding of public policies (6)
- History of institutions and regional development (6)
One teaching to be chosen by the student (6)

SECOND YEAR
Economics and politics of sustainable development (6)
Public management (12)
Methods for policy impact evaluation (9)
12 CFUs to choose from the following teachings:
- Economics and policies of digital innovation (6)
- Performance, digitisation and inclusion (6)
- Sustainability report (6)
- Training and law assessment (6)
One teaching to be chosen by the student (6)

Final examination (18)

OVERVIEW

The Master’s Degree in Economics, Public Policy and Sustainability (EPPS) aims to train experts to design, implement, monitor and evaluate public policies and to define management strategies in compliance with economic, social and environmental sustainability objectives. The programme responds to the need to formulate regulation and support policies for the economic development of companies and territories with the aim of improving the future of the next generations.

The curriculum combines multidisciplinary skills in economics, business, law and data analysis. Graduates can take on decision-making roles of significant responsibility in a range of working environments, in the public, private and third sectors.

The link with the labour market is enhanced by the opportunity of internships with national and international research bodies, local administrations, businesses 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, which are included in some teachings that also make use of innovative teaching methods.

JOB OPPORTUNITIES

Graduates can hold management/executive positions in the public, private or third sector or can work in consultancy as: applied economist, management and control specialist in PA, specialist in the acquisition of goods and services, specialist in economic systems, expert in business economics, market analyst. These professionals can be employed in: European and national institutions; companies and public bodies; trade unions; business associations; non-profit organisations; cooperatives; chambers of commerce; companies and financial institutions that have relations with the PA; public and private research centres; think tanks; evaluation agencies; national and international organisations; statistical and research offices; consultancy firms.
Philosophy

Joint Degree Programme of the University of Ferrara and the University of Parma

STUDY PROGRAMME
(CFUs are in brackets)

FIRST YEAR

Students can organise their study plan distributing the teachings as they prefer between the first and second year, within the educational offer of 3 Universities. Here, by way of example, we report only the first group of philosophical teachings within which 24 CFUs may be selected; other historical philosophical, humanistic and linguistic teachings will follow, from which students can choose the remaining CFUs.

Distinctive activities (TAF B) - Principles of philosophy

Four teachings, for a total of 24 CFUs, to be chosen from:

- Philosophy and communication (Parma)
- Theoretical and social philosophy (Parma)
- Theoretical philosophy and critical theory (Parma)
- Theoretical philosophy and theory of action (MO-RE)
- Theoretical philosophy and theories of culture (Ferrara)
- Philosophy of science (Parma)
- Logics and grammar (Parma)
- Philosophy and contemporary sciences (Parma)
- Science and philosophy (Ferrara)
- Ethical Theories and Naturalism (Parma)
- Ethics and hermeneutics (Ferrara)
- Philosophical anthropology (MO-RE)
- Aesthetics and theory of arts (Parma)
- Aesthetics (Ferrara)
- Aesthetics and languages of art (MO-RE)
- Philosophy of language (Parma)
- Philosophy of Mind (Parma)
- Language and contemporary philosophy (Ferrara)
- Language and knowledge (MO-RE)

For the complete study plan please go to the website of the Degree Programme in philosophy: https://cdlm-filo.unipr.it/it

OVERVIEW

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 aesthetic 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 aesthetic 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: 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), doctoral 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.

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International Management

Course taught entirely in English. Double study qualification with the University of Bochum (Germany).

OVERVIEW

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 regulated 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 strategies and the corporate management tools in the internationalisation processes. The second one focuses on marketing with specific reference to innovation policies, and management of channels/clients and sales networks on 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 professors 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.

STUDY PROGRAMME

(CFUs are in brackets)

FIRST YEAR
Elementary applied econometrics for international economics (9)
Industrial economics and digital platforms (6)
Internationalization strategies (9)
Organizational 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)

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www.economia.unimore.it/site/home/didattica/corsi-di-laurea-magistrale/international-management.html
Languages for Communication in International Enterprises and Organisations

Course taught entirely in English

STUDY PROGRAMME
(CFUs are 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)
- Language strategies and digital tools for institutional communication or Professional communication and digital discourse or Digital humanities (6)
- Credits for elective courses (9) (Advanced Chinese language or Advanced Russian language or any courses offered by the Department)

SECOND YEAR
- English specialised language and translation (9)
- French/German/Spanish specialised language 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)

OVERVIEW

Languages for communication in international enterprises and organizations. The name of the programme is in English because all subjects are taught in English. Exceptions are the teaching named "Language strategies and digital tools for institutional communication", which is taught in Italian being focused on the Italian language for institutional communication, and foreign languages (that are always taught in the language being studied). 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. The same 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, and Comparative business law.

JOB OPPORTUNITIES

Master’s 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 contextualization of the experience within a theoretical framework, thanks to the final 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.
OVERVIEW

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.
STUDY PROGRAMME
(CFUs are in brackets)

FIRST YEAR
Statistical analysis of data for market research (9)
Business planning and strategic control (6)
Law of economy and markets (9)
To be chosen by the student (9)

Curriculum: Business Communication and Image
Strategic analysis for marketing positioning (6)
Organisation of labour relations (6)
Management of financial communication (12)
Applied psychology (12)

Curriculum: General Management
Strategic analysis for competitive positioning (6)
Human resource management (6)
Psychology of persuasion (6)
Financial tools and markets (12)

SECOND YEAR
Internship - other activities (6)
Final examination (12)

Curriculum: Business Communication and Image
Advertising communication and brand imaging (6)
Organisation and management of culture and creativity (6)
Planning of business communication (9)
History of consumption and marketing models (12)

Curriculum: General Management
Financial statements and reporting models (9)
Finance for growth (6)
Sustainability strategy and management (6)
Economic and competitive scenarios (12)
Data collection techniques (6)

OVERVIEW

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. Educational activities in the classroom also offer the opportunity to listen to the recordings of the lectures via ONELab services; the service also includes a timetable for contacting the professors online in addition to the traditional visiting hours.

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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www.dce.unimore.it/LM/MCI
OVERVIEW

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

During their training, graduates are provided with cross-sector knowledge in various disciplines, in particular:
- information technology,
- languages and literatures,
- history, law, arts and philosophy,
- anthropological-psychological-pedagogical, and teaching methods and technologies (with the opportunity to gain 24 credits in such disciplines, a requirement to work as teachers, (LD no. 59/2017).

The training offer also includes workshops and internship.

JOB OPPORTUNITIES

The Master’s Degree Programme trains graduates to work as:
- teachers of humanities in (lower and upper) secondary education (under current legislation, graduates with sufficient credits in adequate disciplinary sectors will be eligible to take the admission tests for teaching training programmes),
- scholars, consultants and coordinators collaborating with the entire school personnel (digital animator), or working in bodies operated by the Public Administration and private entities, for the use of methodological and digital solutions;
- digital publishing and edutainment experts;
- experts in digital management of cultural resources.
OVERVIEW

The degree programme in Advertising, digital communication and creative business processes aims to train specialists in coordinating and managing innovation processes that involve internal and external business communication and experts of digital, advertising, and multimedia communication.

PROGRAMME CONTENTS

The programme includes the acquisition of advanced psychological, linguistic, semiotic, sociological, data analysis and business communication skills. These competences are necessary to deepen professional skills related to: a) strategic models of brand and advertising communication; b) the use of the web, with the aim of building abilities linked to the new media potentials; c) the creation of specific languages of multimedia communication; d) the emerging management trends for handling communication, which requires the use of innovative languages and contents.

The teaching activity will be organised in traditional lectures that are always integrated with exercises and seminar activities. The learning results will be ascertained by means of written tests and oral interviews, sided by the evaluation of project works developed individually or in group, as well as classroom talks about 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. In addition, from the first year, students can choose an independent programme to deepen their knowledge by choosing subjects offered as alternatives in the degree programme or through free-choice 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.
OVERVIEW

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 unions and business associations, in agencies for personnel recruitment and selection or employment administration.
Pedagogy

OVERVIEW

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 trains students 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 and psychological consultants in the public and private sector dealing with prevention, education and recovery of the discomfort and reduction of handicap, as well as the integration between genders, generations, social groups, cultures, and professional guidance and training;
- pedagogical coordinators in educational services for children, adolescents, youths, adults and the elderly;

STUDY PROGRAMME

(CFs are in brackets)

FIRST YEAR
Examinations in common for the 2 curricula:
- Philosophy of 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)
- Educational consulting and planning curriculum
  - Comparative law of children (8)
  - Social statistics with Laboratory (6)
  - Clinical psychology (6)
- Human sciences for pedagogical research curriculum
  - History of Church-State relations in Italy (6) or Pragmatics of spoken and written communication (6)
  - Theory and history of narrative genres (8)
  - History of globalisation (6) or Clinical psychology (6)

SECOND YEAR
Examinations in common for the 2 curricula:
- Psychology of learning processes + Psychology of behaviours and opinions (12)
- Training theories and methods + Planning in educational and training contexts (16)
- Elective credits (8)
- Final examination (20)
- Educational consulting and planning curriculum
- Pedagogic coordination and training assessment (6)
- Human sciences for pedagogical research curriculum
  - History of philosophy (6)
OVERVIEW

The Master’s Degree Programme in Health and Sport, Class LM-67 in Sport Science for Prevention and Rehabilitation, is aimed at training highly qualified professionals with advanced scientific knowledge in the field of human motor activities, with particular regard to prevention and adaptation.

PROGRAMME CONTENTS

Training activities include basic, distinctive and similar disciplines in the areas of nursing and biomedical sciences, as well as social, psychological and pedagogical sciences. During the programme, students carry out independently chosen internships/traineeships at highly qualified national and international sports facilities.

JOB OPPORTUNITIES

Master’s graduates in Health and Sport (kinesiologist of adapted motor activity) are in charge of planning and implementing protocols of motor activity for healthy subjects with the aim of prevention, subjects at risk or already affected by diseases, in different age groups and physical conditions, aimed at the management of preventive measures and in particular the control and improvement of diseases 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, recreation 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 of individual or collective motor activities, health development promotion, tourism-recreational, educational-psychomotor activities are carried out, aimed at children, adults, the elderly, and disabled people;
(c) Gyms promoting health. They can also 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.

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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.

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 healthcare facilities for special qualifications.

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.
STUDY PROGRAMME

(12) Complements of Mathematics for Science
(12) Ecology and global changes
(6) Methods and tools of scientific communication

GEOSCIENCE (12) two teachings to choose from:
Principles of Geology
Palaeontology and evolution of Vertebrates
Dynamics of lithosphere and hydrosphere
Minerals and ecosystem
Magmatism and vulcanology

BIOSCIENCE (12) two teachings to choose from:
Principles of Biology
Plant biodiversity and evolution
Didactic and Communication of Biology
Physiology of animal systems

CHEMISTRY (6) one teaching to choose from:
Analytical chemistry of environmental processes
Physical chemistry of natural systems

SECOND YEAR

Methods and tools of digital communication

One block to choose from the following three options (12)

Option I (12)
History of Mathematics
Fundamentals of Mathematics

Option II (12)
Complements of Physics for the Didactic of Sciences
Psychology of handicap and rehabilitation

Option III (12)
Didactic and Communication of Chemistry
Didactic and Communication of Earth Sciences

Teaching English for Science (6)
12 CFUs to be chosen by the student
Thematic seminars (1)
Internship (6)
Degree thesis / Final examination (17)

OVERVIEW

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 digital 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. The strength of graduates in S4EDU lies in their versatility: in line with the recent legislative reform in the field of teaching, they will be able to teach science in secondary schools and mathematics and science in middle 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.

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www.s4edu.unimore.it
STUDY PROGRAMME

Three curricula are activated:

- ‘Theoretical and computational physics’
- ‘Nano-physics and quantum technologies’
- ‘Bio-physics and applied physics’

Based on the curriculum chosen by the student, the following teachings are available (in brackets the training credits):

- Advanced quantum field theory (6)
- Advanced quantum mechanics (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)
- Laboratory of condensed matter physics (6)
- Laboratory of electron microscopy and holography (6)
- Laboratory of nanofabrication (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)
- Statistical mechanics and phase transitions (6)
- Synchrotron radiation: basics and applications (6)

Job-oriented training activities:

- Good practise in research (3)
- Research integrity in sciences (3)
- Science-based innovation (6)
- High-Performance-Computing in sciences (3)

Courses to be chosen by the student (12)

- Thesis project and final examination (36)

OVERVIEW

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.
**STUDY PROGRAMME**

(CFUs are 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 to choose from:
- Global geological events (6)
- Paleoclimatology (6)
- Applied biostratigraphy (in English) (6)
- Geo-energies (6)

6 CFUs to choose from:
- Integrated stratigraphy and astrochronology (in English) (6)
- Advanced mineralogical analysis (6)

**SECOND YEAR**
- Geothermal surveying and cartography (9)
- Activities to be chosen by the student (12)

Internship (11)
- Thematic seminars (1)
- Thesis/Final examination (18)

Teachings that can be chosen from both curricula of the Degree Programme and/or other Programmes of the University, provided that they are consistent with the training objectives of the degree.

**OVERVIEW**

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 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. The programme also envisages activities chosen by the student, training seminars and an internship to be carried out in Italy or abroad, in professional studies, 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 examination, graduates can register in the professional order and work as a freelance 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.
OVERVIEW

Recently activated, the Master's Degree Programme in Informatics has the objective of training specialized professionals in the IT field, with specific and in-depth skills in software design. At the end of their studies, students will be able to analyse, design, develop and maintain even complex computer applications and systems, which generate and process data for dealing with the countless information issues that arise in companies, Public Administrations, and research institutions.

PROGRAMME CONTENTS

The Master’s Degree Programme in Informatics provides a set of compulsory teachings that allow students to explore their modelling, design and information management skills, taking care of both the theoretical and the applicative aspects. In the second year, students also have the opportunity to select some free-choice courses to complete their training, in order to improve their skills and abilities in areas of greater interest and / or according to their professional vocation.

While generally dealing with software design, from a most applicative point of view the Master’s Degree Programme in Informatics focuses on distributed aspects, mobile computing, and computational intelligence.

JOB OPPORTUNITIES

The training provided by the Degree Programme is in line with the best international standards and gives graduates the opportunity to seek a position on the territory, in Italy or abroad, in different fields and at different levels of responsibility. In particular, the knowledge and skills provided allow master graduates to deal with the design and development of even complex IT applications and systems. These skills favour not only the placement in software development companies, but also the opportunity to work as a designer and project manager in Public Administrations and in non-ICT companies, where the role of information technology is relevant. An available alternative is working as a freelance professional, an IT consultant not tied to a particular company. The most enterprising graduates also have real chances, encouraged by the low costs required for infrastructures, to become entrepreneurs of their own software development companies, as is also the case of bachelor graduates. Last but not least, the Master’s Degree allows graduates to access to PhD programmes in Informatics or related subjects, in Italy and abroad, necessary to undertake an academic career or to work in research centres.
STUDY PROGRAMME

(CFUs are in brackets)

- General curriculum
  Higher algebra (6)
  Geometry of surfaces (6)
  Higher analysis (12)
  Statistical mathematics (6)
  Signal processing and inverted problems (12)
  Dynamic systems (6)

- Educational curriculum
  Mathematics teaching (6)
  Elementary mathematics from a higher point of view (6)
  Mathematical analysis: complements (12)
  Geometry of surfaces (6)
  24 CFUs of Model-Application training to be chosen by the student

- Data Science Curriculum
  Computational and statistical learning (9)
  Big data analytics (9)
  Higher analysis (12)
  Stochastic processes (6)
  Geometry of surfaces (6)
  6 CFUs of Advanced theoretical training to be chosen by the student
  12 CFUs of Model-Application training to be chosen by the student

Optional teachings (6 CFUs each) to choose from the following exams: (based on the curriculum)

- Higher algebra
- Algebraic structures
- Combinatorial geometry
- Discrete mathematics
- Computational topology
- Geometric topology of varieties
- History of mathematics
- Calculus of variations
- Convex analysis and optimization
- Evolution equations
- Partial differential equations
- Mathematical methods for finance
- Stochastic methods for simulations
- Models of mathematical physics (in English)

Systems of interacting particles
Digital signal processing
Scientific data processing
Introduction to Quantum Information processing (in English)
Physics education (in English)
Cryptography algorithms
Complex systems (in English)
Intercultural pedagogy

Internship, Language skills, Computer skills, Seminar activities (3)
Advanced scientific English (3)
Final examination (24)

OVERVIEW

As of academic year 2020-21, the Programme offers three different paths:

- General curriculum
- Educational curriculum
- Data Science Curriculum

The programme is intended not only for Bachelor’s graduates in Mathematics, but also for all graduates in Scientific, IT, Economics and Engineering disciplines wishing to complete their studies in Mathematics and gain the skills required to enter a highly-qualified job market or continue their studies with a PhD.

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, Mathematical Physics, and 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 get a full teaching qualification by participating in the activities provided by the Teacher Training programme.
Master’s Degree / Sciences
Quaternary, Prehistory and Archaeology

Joint degree programme with the University of Ferrara

STUDY PROGRAMME (CFUs are in brackets)

FINST YEAR
Ancient sources (6)
Human palaeontology and palaeoanthropology (6)
History of the classic world (6)
Geoarchaeology, morphology, and formation processes (6)
Internship (6)

Three teachings to choose from the following:
- Archaeobotany (6)
- Archaozoology and taphonomy of animal hard materials (6)
- Archeopetrography (6)
- Evolution of fauna groups of the Quaternary period (6)
- Chronology and cultures of Palaeolithic (6)

Two teachings to choose from the following: Recommended for Prehistory and Protohistory curricula:
- Chronology and cultures of Mesolithic and Palaeolithic (6)
- Methodologies: technology of vascular forms (6)
- Chronology and cultures of the Metal Age (6)
- Technology and type of lithic industries (6)
- Methods and techniques for archaeologic research (6)

Recommended for the Archaeology curricula: Methods and techniques for archaeological research (6)
- History of Greek and Roman art (6)
- Classic archaeology (6)
- Archaeology of High Middle Age (6)
- Archaeology of Low Middle Age (6)

SECOND YEAR
Two teachings to choose from the following:
- Archaeotechnology of materials (6)
- Biology of human skeleton (6)
- Communication of sciences of Quaternary, Prehistory, and Archaeology - Dissemination and Museums (6)
- Business administration of cultural heritage with elements of Legislation (6)
- Geoaarchaeology of soils and archaeologic sediments (6)
- Archaeology of landscape (6)
- Thematic cartography and GIS (6)
- Laboratory of archaeobotany (6)
- Methods of dating for archaeology (6)
- Applied geophysics for archaeology (6)

For Prehistory and Protohistory curricula, one teaching to choose from:
- Etruscology (6)
- Technical and functional analysis of lithic artefacts (6)
- Populations genetics and ancient DNA (6)
- History and archaeology of Ancient Near East (6)

For Archaeology curriculum, one teaching to choose from:
- Ancient numismatic (6)
- History and archaeology of Ancient Near East (6)
- Archaeology or Roman provinces (6)
- Ancient topography (6)

OVERVIEW

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 thematic 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 archaeoexcavations 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, superintendence official. Graduates’ professional outlets 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; specialist publishing and scientific dissemination; professional training courses.

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www.dscg.unimore.it/LM/QPAS
OVERVIEW

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 Master’s Graduates in Chemical Sciences to pursue rewarding jobs in industry, 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;
• work as freelance professionals and consultants, passing the qualifying examination and enrolling in the Chemists’ Register, Section A;
• continue their training enrolling in PhD programmes, Specialisation and Advanced Master Programmes (2nd level);
• take part in teacher training programmes for secondary school teachers (middle and high school).
Master's Degree / Life

Experimental and Applied Biology

**OVERVIEW**

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 programme includes the subjects that play the basic role of biology, in a common path, and the subjects applied especially to the understanding of 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 that provide 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, students may choose between two curricula. In the 'Study, control and protection of health' curriculum, students will deepen topics relating to food and nutrition, laboratory diagnostics, quality control in laboratories, chemical-clinical analysis, physiology of metabolism, biology and pathophysiology of nutrition, pathology and immuno-endocrine integration, pharmacology. The 'Evolution, monitoring and protection of biodiversity and environment' 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.

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**STUDY PROGRAMME**

*(CFUs are in brackets)*

**FIRST YEAR**

Molecular genetics and epigenetics (7)  
Methodologies of biomolecular and genomic analyses (6)  
Quality systems for health and environment (9)  
Experimental drawing and data analysis in biology (8)  
Microbiology for clinic diagnostics, environmental monitoring and food analysis (6)  
Evolution, control and protection of biodiversity and the environment (7)  
Biodiversity and animal phylogeny (7)  
Biological evolution (7)  
Anthropic alterations of ecosystems: monitoring and management (8)  
Study, control, and protection of health (7)  
Physiopathology and pathology of nutrition (8)  
Integrated immunobiology and biological functions (12)

**SECOND YEAR**

Seminars in life sciences (3)  
Subjects to be chosen by the student (12)  
Internship and Final examination (24)  
Evolution, control and protection of biodiversity and the environment (7)  
Plant bioindicators, environmental transformations and sustainability (7)  
Conservation and management of animal and plant biodiversity (10)  
Zoology for biomonitoring and biologic control (6)  
Study, control, and protection of health (7)  
Histologic and molecular diagnostics (6)  
Translational medicine (6)  
Pharmacology and pharmacognosy (6)
OVERVIEW

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,
- 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 research 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.
OVERVIEW

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).
OVERVIEW

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.

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 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.

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**OVERVIEW**

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 mycotoxico logical problems and pesticide residues.

**STUDY PROGRAMME**

(CFUs are in brackets)

**FIRST YEAR (UNIVERSITY OF PARMA)**

Food toxicology (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 (University of 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 agrifood products (6)

Risk Mitigation curriculum (University of Piacenza)
Mitigation of risk in food production (6)
Emerging risks (6)
Mitigation of process-related toxicants (6)
Food Allergens (6)
Risk Management curriculum (University of 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 health (6)

**JOB OPPORTUNITIES**

Master’s graduates in Food Safety and Food Risk Management operate at different levels of the agri-food supply chain, including the Development of an adequate Regulation regulating production safety and sustainability. In international bodies, in the control bodies, in agri-food companies, Master’s degree graduates play leading, coordination, and responsibility roles for the management aspects of safety and sustainability related to production, procurement and handling of raw materials, process control, development of new products, marketing and distribution at national and international level.

**STUDY PROGRAMME**

(CFUs are in brackets)

**FIRST YEAR (UNIVERSITY OF 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 (University of 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 agrifood products (6)

Risk Mitigation curriculum (University of Piacenza)
Mitigation of risk in food production (6)
Emerging risks (6)
Mitigation of process-related toxicants (6)
Food Allergens (6)
Risk Management curriculum (University of 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)
STUDY PROGRAMME

(CFUs are in brackets)

FIRST YEAR
Agroecology and biodiversity protection (6)
Management and business development (8)
Agro-herbaceous ecosystems (6)
Agro-arboreal ecosystems (6)
Assisted evolution technologies in agriculture and soil fertility (9)
Integrated approaches to pathogen defence (6)
Integrated approaches of phytophagous management (6)
Professional soft skills (3)
Elective subjects (6)

SECOND YEAR
Sustainable livestock production (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)

OVERVIEW

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 on sustainability, developing and managing the innovation of agricultural enterprises and supply chains, encouraging their development also in a territorial approach.

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 Sustainability 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., as well as important roles in agricultural research and experimentation bodies, public administration, land reclamation consortia, park authorities, etc., consultants (freelance agronomist).
Electronic Engineering for Intelligent Vehicles

Course taught entirely in English. Joint degree programme with the Universities of Bologna, Ferrara and Parma. Administrative headquarters at the University of Parma

STUDY PROGRAMME
(credits are in brackets)

FIRST YEAR - MUNICIPALITY - BOLOGNA
Advanced Automotive Sensors (6)
Hardware-Software Design of Embedded Systems I.C. (12)
Automatic Control (6)
12 credits to choose from: 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 credits to choose from: Dynamics and Compliant Design of Road Vehicles (6), Deep Learning for Engineering Applications (6)
3 credits to choose from: 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 credits to choose from: 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 credits to choose from: 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 - MUNICIPALITY - MODENA/PARMA
Examinations to be chosen by the student (12)
Final examination (24) to choose from: final examination (24), final examination and internship (24)

OVERVIEW
An electronic engineer working in the automotive industry must currently be able to deal with the challenges related to the evolution of the vehicle in a high-tech complex system based on deep interconnections among mechanics, electronics, telecommunications, and informatics. This programme provides suitable training for a professional profile focused on the design and development of the main subsystems included in car vehicles and road motor vehicles, with specific reference to the premium and motorsport markets, specifically focusing on the professional knowledge in information engineering. The Master’s Degree Programme in Electronic Engineering for Intelligent Vehicles (EEIV) is an inter-university 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 is also peculiar for being fully offered in English, and for mainly focusing on providing theoretical and laboratory contents, based on a Learning by Doing approach; for organising internships at the industrial partners and carrying out thesis activities based on a Project Working mode at university and corporate research laboratories.

PROGRAMME CONTENTS
The AAEW Master’s Degree Programme offers students the opportunity to develop their skills by directly focusing on the vehicle and motor vehicle sector of the premium, racing, or self-driving segment.

Since the first year, the degree programme is divided into two curricula:
- Electronics and Communications Systems - ECS (Bologna campus and Modena campus): study of the principles of operation and design of the main electronic systems and telecommunications in the automotive sector
- Autonomous Driving Engineering - ADE (Bologna and Parma campus): study of information engineering...
systems and technologies for the development of autonomous driving systems.

**JOB OPPORTUNITIES**

The main job opportunities offered by the master’s degree programmes of this class are related to the innovation and development of products and processes, advanced designing, production planning and programming, and complex system management in manufacturing or service companies that deal with the design and production of vehicles and motor vehicles of the premium or racing segment of the market, in their relevant production chains, operating in the international field.

Graduates in EEIV may continue their studies by completing their preparation in a PhD School or a 2nd level Master. Master graduates also possess the skills and meet the requirements in accordance with the applicable legislation to work as Engineers in the various specialisations that are governed by the State law within the Professional Association of Engineers, section A, sector C-Information.

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www.motorvehicleuniversity.com
Advanced Automotive Engineering

Course taught entirely in English. Joint degree programme between the Universities of Bologna, Ferrara, and Parma. Administrative headquarters at Unimore.

**STUDY PROGRAMME**

(CFUs are in brackets)

**FIRST YEAR**

First semester in common - 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 (6)
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)

**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)
Elective subject (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)
Elective subject (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)
Elective subject (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)
Elective subject (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)
Elective subject (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)
Elective subject (12)
Thesis (12)
Internship and/or Laboratory (12)

**OVERVIEW**

The Master’s Degree Programme in Advanced Automotive Electronic Engineering is an Interuniversity International programme sponsored 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 (administrative headquarters of the programme), Parma, and the world’s most prestigious automotive companies based in the territory: Automobili Lamborghini, Dallara, Ducati, Ferrari, Haas F1 Team, HPE Coxa, Marelli Europe s.p.a., 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 from 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. In addition, 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 first semester shared by all students and organised at the University of Modena, aimed at introducing the fundamentals on high-performance vehicle design and production: design approach of the vehicle lay-out, manufacturing processes for the construction and system assembly, choice and use of innovative materials, main mechanical consequences on systems and components.

Subsequently, the training programme is divided into six curricula, whose contents have been defined with the contribution of the partner companies, in order to professionalise the students’ path according to the most advanced needs of the labour market:

- Advanced Powertrain (Modena and Bologna sites): studies 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, through to the most advanced engine control and calibration techniques.
- High Performance Car Design (Modena campus): studies the main aspects of design, vehicle dynamics and NVH (Noise Vibration Harshness), material behaviour, mechanical technology, aerodynamics, thermofluid dynamics, automatic controls, electronics and sensors, aerodynamics.
- Racing Car Design (Modena campus and Parma campus from the second year): studies the main design aspects of the chassis system and architecture of racing vehicles are studied, with particular attention paid to the use of materials and special solutions, also considering the highly experimental nature of development activities and the attention paid to aerodynamic and performance aspects.
- Advanced Motorcycle Engineering (Bologna campus): studies aspects of mechanical engineering, electronics and industrial design typical of high-performance and competition motorcycles, related to design, vibration mechanics, mechanical technology, dynamics, the design of endothermic engines and BEVs, and drive assistance systems.
- Advanced Sportscar Manufacturing (Bologna Campus): studies process engineering for the production of high-performance vehicles, the design of robotic industrial systems, the management and optimisation of production, the main technologies for digital factory and quality control process management.

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 from the understanding of the fundamental aspects, and designing all main cold units and subunits 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. This AAE is more specialised in terms of aerodynamics, use of lightweight materials (Carbon Fibre Reinforced Materials), and has a strong ability in carrying out experimental activities.
- Advanced Automotive Engineer expert in motovehicles. 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. S/he 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.
OVERVIEW

The degree programme aims to train professionals experienced in digital automation engineering, able to master, both from a theoretical point of view and from a practical point of view, the mathematical tools, computer and technical disciplines that govern automation processes in a digital context, allowing graduates to design, build and manage automated systems and digital infrastructures.

PROGRAMME CONTENTS

Entirely taught in English, the programme offers a common programme in the first year, and three competence profiles in the second year: “Digital Infrastructure”, “Digital Design”, and “Digital Manufacturing”. The common programme provides training in 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 apply digital automation engineering to specific contexts, such as digital infrastructure management, digital design techniques, and digitisation of production systems.

JOB OPPORTUNITIES

Graduates in Digital Automation Engineering will be able to manage the rapid evolution of automation engineering technologies, to deal with the applications of digital automation in Industry 4.0 scenarios and, in addition, to work in teams on complex and multidisciplinary projects. The Degree Programme provides the skills to meet the challenges and opportunities of the digital revolution, based on the use of mathematical, computer and technical tools from the different disciplines covered. These skills create numerous employment opportunities in design studios, consultancies and companies at the forefront of the development and use of digital systems, both in the production and service sectors, as well as in the analysis and manipulation of large amounts of data.
OVERVIEW

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 - heat and air conditioning systems
- Auxiliaries: CC/CC converters, wiring
- Sensors for purely electric and Plug-In Hybrid vehicles.

For the different subsystems and the integrated system, the EVE engineer will deal with the following themes:

- Control algorithms
- Thermal management
- Electric safety
- Failure modes, reliability, quality, monitoring and diagnostics
- Electric, mechanic, and 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.

S/he 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.
OVERVIEW
Thinking of a machine, installation or tool without any electronic component is today extremely improbable, still it is even more difficult thinking of our life without a “prosthetic” digital instrument (such as a smartphone or IoT).
Enrolling in the Master’s Degree Programme in Electronic Engineering means training for high-level careers in the industry, service, or research sectors in Italy and abroad.
The degree programme in Electronics Engineering aims to train Master graduates both for the sector of industrial automation, and for the sector of new “smart and connected” technologies, by offering a study programme divided into two curricula: 1) Industrial Automation 2) Smart Connected Systems

PROGRAMME CONTENTS
The Degree Programme allows students to further explore their general and specific engineering skills in one of the two curricula: “Industrial Automation” and “Smart and Connected Systems”. Students may also choose additional teachings on aspects they are interested in, by attending 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 design 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.

STUDY PROGRAMME (CFUs are in brackets)
Electron Devices and Components (9)
Techniques and Systems for Digital Communications (9)
Embedded Systems Design (6)
Analog and Mixed Signal Circuit Design (9)
Photonics and Microwaves (9)
System and Control Theory (6)
Final examination (15)

Industrial Automation curriculum
Power Electronics (9)
Reliability and Safety for Industrial Applications (6)
Modeling and Control of Electromechanical Systems (6)
Industrial Measurements (6)
High Performance Electric Drives and Laboratory (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)

To be chosen by the student (15)
Network Infrastructure Technologies (6)
Biomedical Instrumentation and Measurements (6)
Industrial Co-Teaching (6)
Internship (9)

JOB OPPORTUNITIES
At the end of the study programme, students become Electronic Engineers, trained to design complex electronic systems, advanced components and circuits. The typical professional fields are those of innovation and development, advanced design, and management and control of electronic systems. Graduates may find a job in companies operating in the design and manufacturing of components, circuits and electronic systems, manufacturing industries, automation and automotive industries, public administration sectors, and service companies. Furthermore, Master Graduates may continue their studies with Second-level Advanced Master Programmes and/or PhDs, in particular in the ICT (Information and Communication Technology) area. They may also participate in the Double Degree programme with the Federal Technological University of Paraná (Brazil) to obtain a Master’s degree valid both in Italy and in Brazil.
Master’s Degree / Technology

Civil and Environmental Engineering

Joint degree programme with the University of the Republic of San Marino.

**Campus:** via Pietro Vivarelli, 10 - 41125 Modena

**Duration:** 2 years

**Training credits (CFUs):** 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

**Study qualification required:** Bachelor’s Degree

**Admission:** Unlimited access, assessment of previous career.

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**STUDY PROGRAMME**

( CFUs are in brackets)

Students can decide whether to obtain the degree in class LM-23 (Civil Engineering) or in class LM-35 (Environmental and Territorial Engineering). The choice is made by the end of the first year. The Master’s Degree Programme consists of four curricula, with common compulsory teachings and specific compulsory teachings for the different curricula. Students may choose teachings that are not included in the curriculum they have chosen for a total of 12-15 CFUs.

Teachings in common:

- Water Resources Engineering (9)
- Environmental Monitoring and Remediation of Contaminated Land (9)
- Seismic engineering I (6)
- Exploration of Geotechnical Systems I (6)

Specific teachings of the Structure and Infrastructure Design Curriculum:

- Continuum mechanics (6)
- Theory of Structures (6)
- Seismic engineering II (6)
- Computational Mechanics (9)
- Precision surveying and deformation monitoring, BIM and GIS (12)

One to choose from:

- Bridges (6)
- Existing buildings (6)

One to choose from:

- Thermal plants (6)
- or Energy management (6)

Specific teachings of the Water Resources Management Curriculum:

- Continuum mechanics (6)
- Waterworks and Sewerage Systems (9)
- Energy sustainability and Renewable sources (6)
- Seismic engineering II (6)
- Computational hydrology (9)
- Dams and Reservoirs (6)
- Applied Geomatics, BIM and GIS (12)

Specific teachings of the Environmental Sustainability Curriculum:

- Technologies of Waste Treatment Plants (6)
- Pollutant Chemistry and Environmental Impact Control Tools (6)
- Air quality and pollutant dynamics (15)
- Applied Geomatics, BIM and GIS (12)
- Sustainable design and planning (6)

One to choose from:

- Waterworks and Sewerage Systems (6)
- Exploration of Geotechnical Systems II (6)

One to choose from:

- Environmental reactors (6)
- Environmental remote sensors (6)
- Chemical technologies for Waste Treatment (6)

Specific teachings of the Energy Sustainability Curriculum:

- Technologies of Waste Treatment Plants (6)
- Georesources and Geoenergies (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 to choose from:

- Sustainable design and planning (6)
- Applied Geomatics, BIM and GIS (12)
- Air quality and pollutant dynamics (15)
- Impact Control Tools (6)
- Pollutant Chemistry and Environmental Technologies of Waste Treatment Plants (6)

The following teachings are provided in all curricula:

- Final examination (9)
- Internship/Project activity (12)
- Elective courses (12-15)

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**OVERVIEW**

The Master’s Degree Programme in Civil and Environmental Engineering focuses on the multidisciplinary aspect of emerging issues such as prevention and control of structural collapses, floods and droughts, air quality in cities, waste and energy management. It trains engineers with a strong traditional technical-scientific background, who are able to identify emerging issues and play an active role in decision-making processes.

**PROGRAMME CONTENTS**

The Structure and Infrastructure Design Curriculum addresses the design, execution, maintenance and verification of structures and infrastructure, new or existing, with respect to structural safety, seismic resistance, elastic instability, restoration and consolidation, fire resistance, through the use of 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 subsurface.

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 thermal plants and the certification and energy of buildings.

The Degree Programme encourages the 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. Graduates can also access the selection for the Ph.D. School in Industrial and Territorial Engineering. During the Ph.D., students develop their aptitude for scientific and technological research, international scientific cooperation, and interaction with the industrial and economic area.
OVERVIEW

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 credit obligations. 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 materials science and engineering. Through laboratory activities aimed at the use of experimental methods and modelling approaches, they also develop specific skills of characterisation and design of materials and selection of materials and processing technologies based on the application.

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 in a research team for the development of advanced materials or new technologies for the transformation of materials, as well as carry out counselling activities in the sector of manufacturing, application and behaviour of the materials when used.
Vehicle Engineering

STUDY PROGRAMME (CFUs are in brackets)

FIRST YEAR
Numerical Methods for Engineering (9)
Automated Controls (9)
Aerodynamics and Vehicle Thermal Management (9)
Power unit / Internal Combustion Engines (6)
Vehicle Mechanics (6)

POWETRAIN CURRICULUM
Electric drives (6)

VEHICLE SYSTEM CURRICULUM
Automotive Electronics systems (6)

SECOND YEAR
Common to both curricula
Design methods (9)

POWETRAIN CURRICULUM
Structural design of the engine (9)
Vibration mechanics - NVH (6)
Fluid-dynamic simulation of motors (9)
Powertrain Testing, Calibration and Homologation (6)

VEHICLE SYSTEM CURRICULUM
Chassis design (9)
Vehicle Dynamics (9)
Automotive thermal control (6)
Simulation of hydraulic components and systems for vehicle applications (6)

Internship/Project activity (9)
Final Examination (15)

Elective courses (12):
Agricultural machinery (6)
Electrochemical Energy Conversion (6)
Industrial and logistic management (6)
Air pollution from vehicle emissions (6)
Composite materials (6)
Additive manufacturing (6)
Automotive construction (6)
Formula Student / Moto Student (6/15)

Students enrolled in the Master’s Degree in Vehicle Engineering specialise in the automotive sector and have the real opportunity to get in touch with important industrial companies operating locally in the field of road vehicles. The opportunities to meet such companies are offered through training internships and participation to research laboratories of the department. 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:
POWETRAIN CURRICULUM for a specialisation in the propulsion system.
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 deal with the design and development of both internal combustion and electric engines, the dynamic behaviour of vehicles, their external aerodynamics, and the techniques for structural calculation of the engine and chassis 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.

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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Campus: via Pietro Vivarelli, 10 - 41125 Modena
Duration: 2 years
Training credits (CFUs): 120
Degree Class: Class of Master’s Degrees in mechanical engineering

Study qualification required:
Bachelor’s Degree Minimum score: 90/110
Admission: Unlimited access, assessment of previous career.

OVERVIEW

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www.ing.unimore.it/LM/IngVeic
STUDY PROGRAMME

FIRST YEAR
Performance management systems (6)
Models for logistics and production optimisation (12)
Integrated logistic systems (9)
Software and service engineering (9)
Management of organisational processes and change (9)

ICT-Data management curriculum
Data science and management (9)

ICT - Digital and creative industries curriculum
Control of digital systems (6)

Energy production curriculum
Energy systems (9)

Production - Goods and services curriculum
Technology of materials and production processes (9)

SECOND YEAR
Advanced design and management of production systems (9)
Project and innovation management (9)

ICT-Data management curriculum
Models and methods for decision-making support 2 (9)
Regulatory tools for organisational, safety, and business risk analysis (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)

Energy production curriculum
Design and management of service facilities (6)

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)
Processing integrated systems (6)
Product and process sustainability (6)

To be chosen by the student (9)
Internship (3)
Final examination (15)

OVERVIEW
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) Production - 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.

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OVERVIEW

The Master’s Degree Programme in Computer Engineering is divided into four curricula: Artificial Intelligence Engineering - Applications, Artificial Intelligence Engineering - Large Scale, Cloud and Cybersecurity, Data Engineering and Analytics. At least one teaching per programme is taught in English and the Artificial Intelligence tracks are taught entirely in English. Both programmes in Artificial Intelligence Engineering start with training in machine learning, deep learning, computer vision and intelligent systems. Then, for the Applications programme, the use and design of robotic systems, objects and sensors in IoT and applications of AI in bioinformatics are covered. The Large Scale programme covers distributed agent systems, multimedia data processing and AI technologies on supercomputers. The Cloud and Cybersecurity curriculum is aimed at studying and developing safe and network-connected systems. In particular, it addresses 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 curriculum trains expert professionals in the management, manipulation and analysis of huge quantities of data. The topics covered range from software design to business intelligence, from big data management and analysis to the analysis of texts and graphs, such as social networks.

PROGRAMME CONTENTS

Each curriculum offers a set of compulsory teachings, to be completed with teachings chosen among the other curricula, similar teachings and other free choices among the University programmes. Related subjects provide expertise in discrete mathematics, IT law, network and security technologies in the automotive field. Drawing the thesis requires the student to take up an internship in a company or external entity, 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, advanced design, planning and programming, complex system management, both as independent professionals and working in service or manufacturing companies, as well as in public administrations.

STUDY PROGRAMME

(CFUs are in brackets)

Artificial Intelligence Engineering - Applications curriculum
Machine Learning and Deep Learning (Eng) (9)
Computer Vision and Cognitive Systems (Eng)(9)
IoT and 3D Intelligent Systems (Eng) (9)
AI in Bioinformatics (Eng)(9)
Smart Robotics (Eng)(9)

Artificial Intelligence Engineering - Large Scale curriculum
Machine Learning and Deep Learning (Eng) (9)
Computer Vision and Cognitive Systems (Eng)(9)
Multimedia Data Processing (Eng)(9)
Distributed Artificial Intelligence (Eng)(9)
Scalable AI (Eng)(9)

Cloud and Cybersecurity curriculum
Operating system 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 examinations from a different study programme (18)
2 related examinations (12)
2 examinations to be chosen by the student (18)
Internship/ Project Activity (9)
Final examination (18)
STUDY PROGRAMME
(CFUs are in brackets)

The Master’s Degree Programme in Mechanical engineering is divided into three curricula: General Curriculum and Industry 4.0 Curriculum. The General Curriculum trains engineers with broad skills, the Industry 4.0 curriculum aims at training engineers with skills that are complementary to traditional mechanics.

FIRST YEAR
Common to both curricula:
Numerical Methods for Engineering (9)
Automated Controls (9)
Assisted Design of Machine Parts (9)

General Curriculum:
Complements of Machinery applied mechanics (12)
Hydraulics (9)
Thermo-fluid Dynamics (9)

Industry 4.0 Curriculum:
Multibody Dynamics (9)
Hydraulic systems (6)
Electric drives (6)

SECOND YEAR
Common to both curricula:
Machine Drawing (9)

General Curriculum:
Assisted production (9)
Industrial plant management (9)

Industry 4.0 Curriculum:
Energy management and sustainability (6)
Manufacturing systems (6)
Additive manufacturing (6)
Industrial informatics (9)
Common to both curricula:
Final Examination (15)
Internship / Project Activity (9)

To be chosen by the student, for both curricula (12):
Corrosion and protection of metal materials
(6)
Simulation of hydraulic components and systems for vehicle applications (6)
Systems of integrated management of production (6)
Vibration mechanics - NVH (6)
Science and technology of plastic materials (6)
Mechanical technology for processing systems (6)
Composite materials (6)
Industrial and logistic management (6)
User experience design (6)
Student and Moto Student Formula (6 or 15 if in replacement of Internship / Project activity)

OVERVIEW

Students enrolling in the Master’s Degree Programme in Mechanical 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, machinery construction, hydraulics, industrial plant engineering, energy, automation, numerical analysis and informatics. Students will use dedicated software tools that are also commonly applied in the industrial sector. The Industry 4.0 curriculum projects graduates into the future of modern industry. 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-seat- er 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.
OVERVIEW

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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3. Department of Studies on Language and Culture
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6. Department of Chemical and Geological Sciences
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7. Department of Physical, Computer and Mathematical Sciences
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LIFE

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This University has long been engaged in a major awareness-raising effort to fight gender stereotypes. With this in mind, 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.