



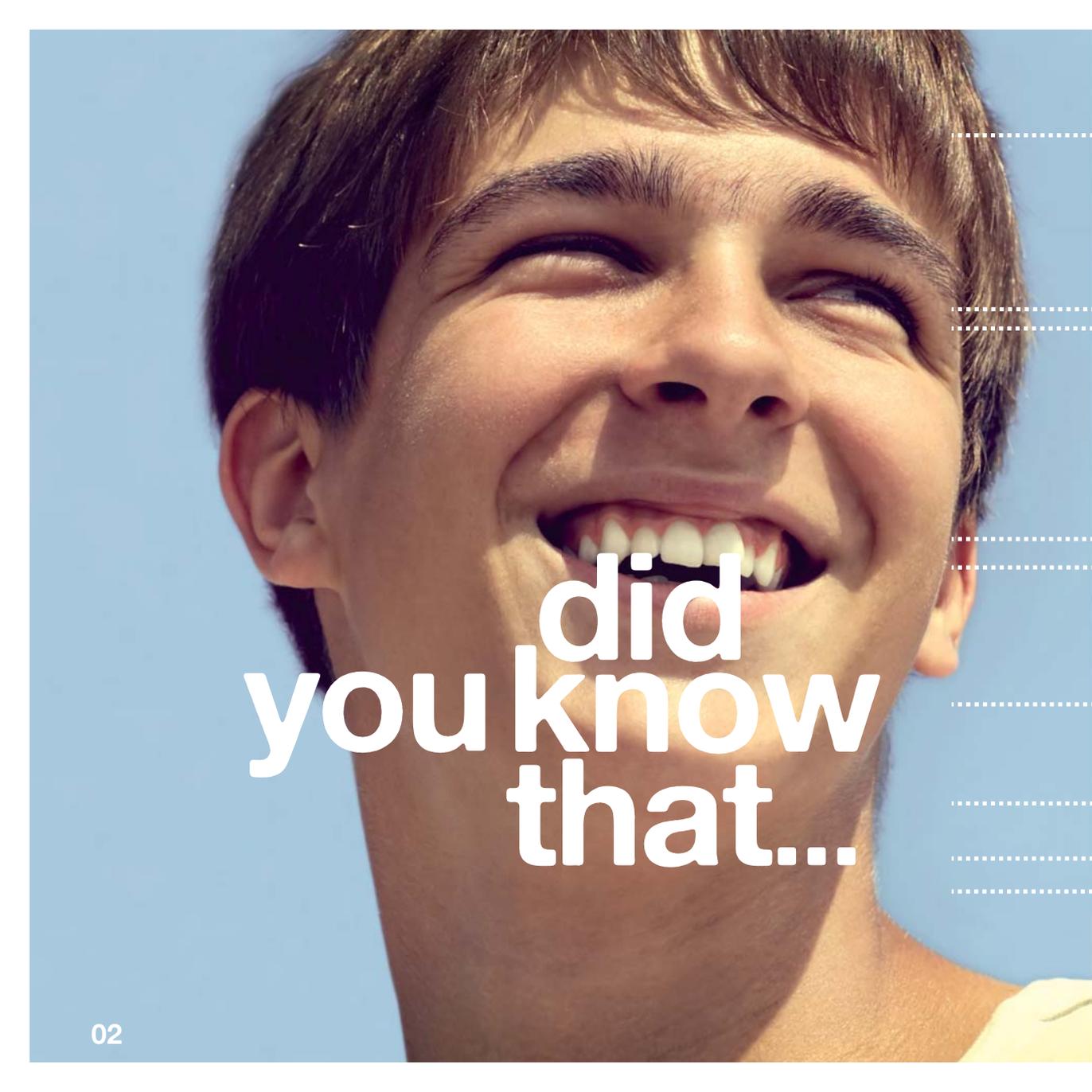
**University of Minho**

Braga · Guimarães

Portugal

**i'm  
on it!**

bachelors  
integrated masters



did  
you know  
that...

portugal significantly values **entrepreneurship**

attested by the creation of several business incubators?

**portuguese language**

is spoken by about 230 million people around the world and is the official language of 9 countries?

portugal is a united nations case study in terms of **e-governance**

and its availability of online public services?

**braga**

is one of the ancient cities in portugal, where you can still find many archaeological remains?

braga's markedly young population has led to its nomination as **european capital of youth**

by the european youth forum in 2012?

braga is the 3th largest metropolitan area in portugal, with about 181 thousand inhabitants, being the **capital of minho's region?**

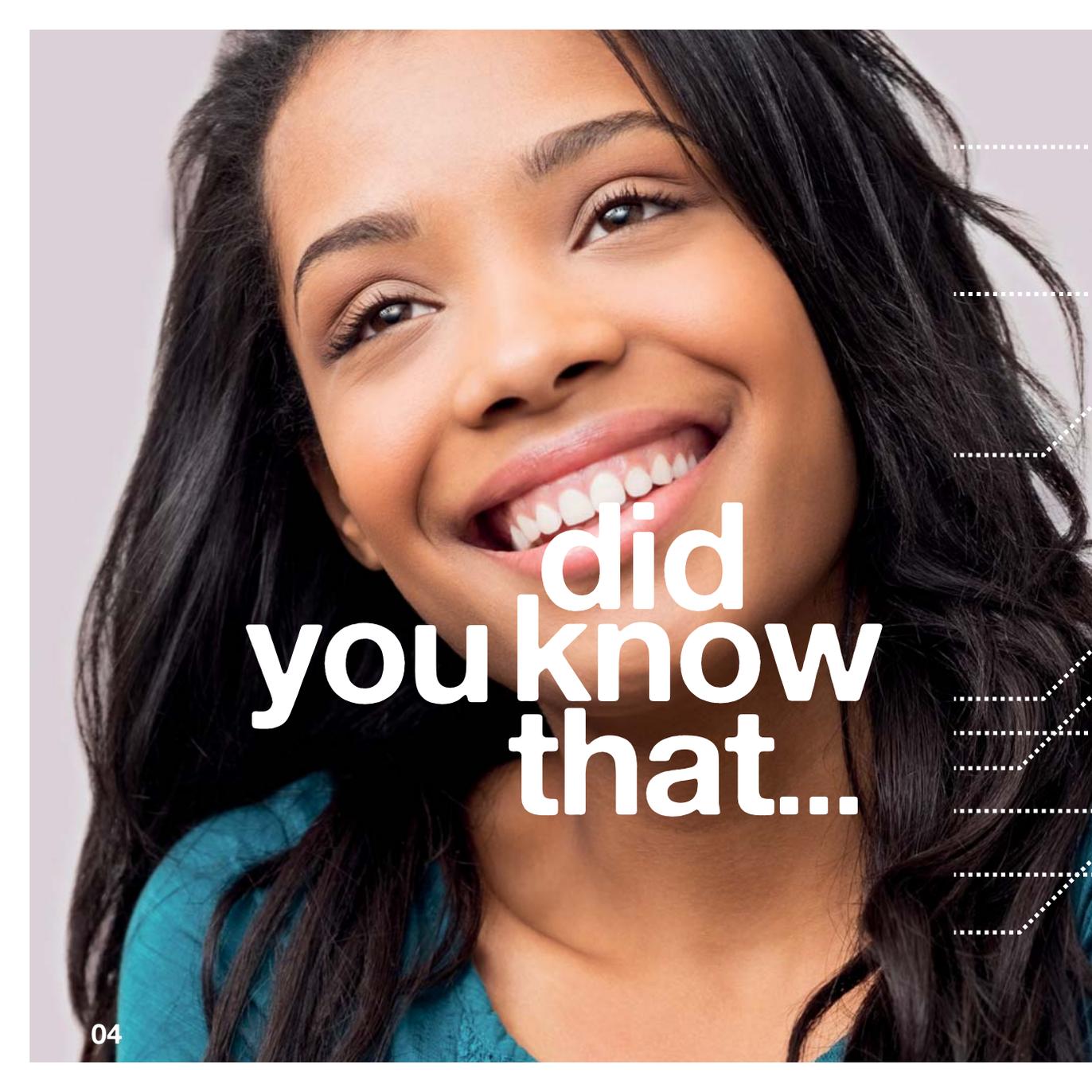
**guimarães**

is a city with an outstanding historical past, associated to the foundation and identity of the Portuguese nationality, being proudly recognised as "portugal's cradle"?

guimarães' historical centre was classified by UNESCO, in 2001, as a

**world heritage site?**

in 2012, guimarães was one of the **european capitals of culture?**



**did  
you know  
that...**



# university of minho

is a comprehensive  
university with  
**11 schools  
and institutes?**

has **32 research  
centers** most of which classified  
as “very good”, “excellent”  
or “outstanding”?

**registers  
30 patents/year?**

has over 19500  
students of which over

**1300 are  
international  
students?**

has partnerships with over  
**400 universities**  
from all around the world?

promotes over  
**500 cultural  
events/year?**

has **1 orchestra?**

was the 1<sup>st</sup> portuguese  
university to publish its  
**sustainability report?**



## University of Minho

Braga · Guimarães  
Portugal

i'm  
on it!

UMinho is a young and vibrant Portuguese university which was founded in 1973. It has three campi located in two charming and historic cities, Braga and Guimarães. UMinho is a successful and inclusive university that has its doors open to international students seeking a higher education institution of high quality, strongly anchored in top research, and with a warm interpersonal environment.  
**Come study with us!**



culture  
science  
excellence  
multiculturalism  
challenge  
future  
sport  
knowledge  
education  
development



**University of Minho**

Braga · Guimarães

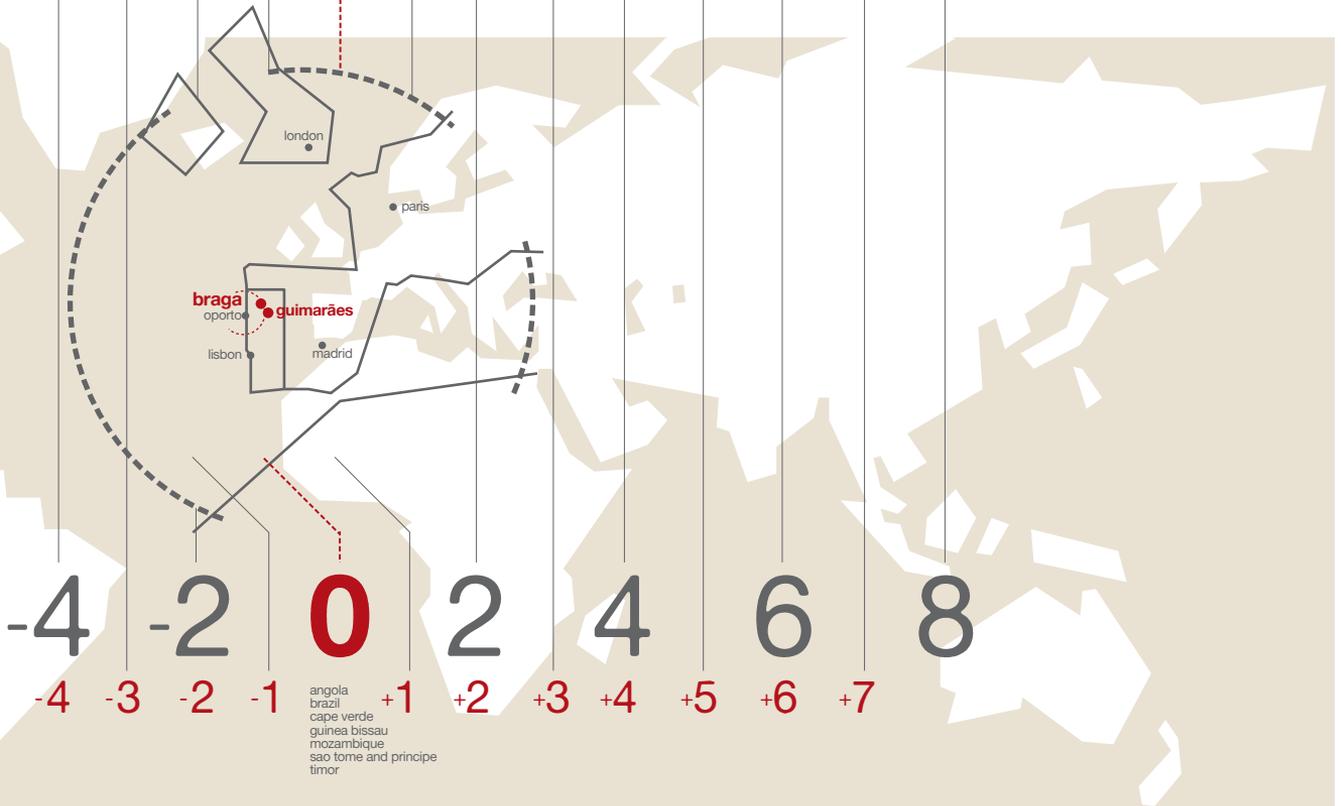
Portugal

# UMinho among the world's best universities

As a recognition of its quality, UMinho has been featuring year after year, among the best universities in the Times Higher Education (THE) world ranking, placed in the top 150 world universities under 50 years, as well as in the reputed CWTS Leiden Ranking, which assesses the quality and impact of scientific production worldwide.

# UMinho /AAUM is the best of europe in sports

In 2012, UMinho was ranked first in the European University Sports Association (EUSA) ranking, which includes 400 academies. This prestigious award results from the combined efforts of the University and its Students Union (AAUM).



# study abroad with our mobility programs

UMinho firmly invests in the internationalisation of education, by having partnerships with more than 400 universities around the world and by integrating several international cooperation networks. Our students are offered many opportunities to study abroad through exchange programs such as ERASMUS+ for periods that vary between 3 to 12 months.



**University of Minho**

Braga · Guimarães

Portugal

# support and resources for internacional students

# international student support desk

The International Student Support Desk is a helpful resource available to all UMinho's international students. It aims to be the starting point to handling issues and problems that students face on their daily life at the university, either by providing an immediate response, or by offering the adequate guidance to the various UMinho services, such as the Academic Services or the International Relation Services.

—  
Contact us on [balcao\\_ei@reitoria.uminho.pt](mailto:balcao_ei@reitoria.uminho.pt)  
or on +351 253 601 055

# language centre

## babeliUM

BabeliUM - UMinho's Language Centre - offers short- and long-term Portuguese language courses to international students. BabeliUM has innumerable language and culture courses available to everyone at UMinho as well as to the general public.

—  
For more information, visit  
<http://babelium.ilch.uminho.pt>

## accommodation

UMinho has 4 university halls of residence - "Lloyd Braga" and "Santa Tecla" at Braga, as well as "Azurém" and "Combatentes" at Guimarães. These offer all the necessary conditions for academic success and the well being of students, including dining rooms, laundry, study rooms and wireless internet broadband.

For more information, visit [www.sas.uminho.pt](http://www.sas.uminho.pt)

—  
UMinho has also a collaboration protocol with Uniplaces, which supports students in the search for private accommodation.

For more information, visit <https://www.uniplaces.com>



## food facilities

UMinho has several canteens and bars in Braga and Guimarães, both at the Campi as well as at the halls of residence. There is also a University restaurant at Gualtar Campus and Azurém Campus.

—  
For more information, visit [www.sas.uminho.pt](http://www.sas.uminho.pt)

## sports

UMinho has a strong tradition and is very successful at sports, which is reflected on more than 60 physical activities offered in several facilities at Braga and Guimarães. So, no excuse! Come and exercise for a healthy body and mind.

—  
For more information, visit [www.sas.uminho.pt](http://www.sas.uminho.pt)



**University of Minho**

Braga · Guimarães

Portugal

can I apply to  
**UMinho**  
as an  
international  
student?

**yes! if...**

You do not have Portuguese citizenship;  
You are not a citizen of a Member State of the European Union;

You have not been legally living uninterruptedly in Portugal for more than 2 years as of 31 August of the year of application;

You are not on a programme of international mobility coming from a foreign university.

—  
For more information, contact [acesso@saum.uminho.pt](mailto:acesso@saum.uminho.pt)

is there  
a foundation  
**COURSE** for  
international  
students?

**yes, there is!**

UMinho offers a Preparatory Course for Access to Higher Education for International Students for anyone coming from countries outside the European Union that has finished secondary education in their country of origin. This course is the best option for students who want to do a foundation course before applying to one of UMinho's bachelor or integrated masters, as it prepares them for entry at the course of their choice while introducing them to the Portuguese language and culture, thus facilitating the adaptation process to a new academic and cultural environment.

—  
For more information, contact [acesso@saum.uminho.pt](mailto:acesso@saum.uminho.pt)

so why  
should I go  
to study  
at UMinho?

**because...**

Portugal is a **very safe** country;

Portugal is located in an **excellent spot**  
in the European Union, by the sea, and with very easy  
and cheap access to other European countries;

The Portuguese **climate** is very enjoyable;

Portuguese people are **very warm**  
towards non nationals;

UMinho is a very dynamic university where education  
and research are very much intertwined and everyone  
can witness the

**creation of knowledge;**

The living conditions for students at Braga  
and Guimarães are very good and

**affordable.**

so our final question  
to you is: **why not?**



**University of Minho**

Braga · Guimarães

Portugal

**i'm  
on it!**

bachelors  
integrated masters

**16. institute of arts & humanities**

applied languages  
cultural studies  
european languages & literatures  
music  
oriental languages & cultures  
philosophy  
portuguese & lusophone studies  
theatre

**20. institute of education**

education  
basic education

**22. institute of social sciences**

archaeology  
communication sciences  
geography & planning  
history  
sociology

**26. school of architecture**

architecture  
product design

**28. school of economics  
& management**

accounting  
economics  
international business  
international relations  
management  
marketing  
political science  
public administration

**32. school of engineering**

biological engineering

biomedical engineering  
civil engineering  
engineering & management of information systems  
fashion design & marketing  
industrial electronics & computers engineering  
industrial management & engineering  
informatics engineering  
materials engineering  
mechanical engineering  
physics engineering  
polymer engineering  
telecommunications & informatics engineering  
textile engineering

**40. school of law**

criminology  
law

**42. school of nursing**

nursing

**44. school of psychology**

psychology

**46. school of sciences**

applied biology  
applied statistics  
biochemistry  
biology - geology  
chemistry  
computer science  
environmental sciences  
geology  
mathematics  
optometry & vision sciences  
physics



University of Minho  
Institute of Arts and Humanities



bachelor [3/years]

# applied languages

It is the aim of this bachelor degree to train in Mother Tongue and Foreign Languages, from the perspective of its application to areas of social, economic, scientific and technical life, combined with translation and documentation skills and the capacity to use information and communication technologies. The graduate in Applied Languages has extensive knowledge in the areas of Linguistics, Translation Studies and Documentation, as well as writing skills and oral use of languages and management and use of IT resources to support the work of languages.

bachelor [3/years]

# cultural studies

This bachelor degree aims to train agents and mediators endowed with multiple skills that allow to integrate professional projects in public and private organizations of the socio-cultural sector. The curriculum is characterized by multidisciplinary, valuing various areas of knowledge. The graduate must be proficient in two foreign languages (intercultural communication) and have solid knowledge of both the Lusophone cultural diversity and other cultures' diversity. The historical and comparative approaches, combined with the study of various aspects of the contemporary civilizational life (science, technology, digital culture), aimed at developing an analytical and critical mind who will to be able to understand the complexity of practices and cultural discourses.



# institute of arts & humanities

16  
17  
18  
19

bachelor [3/years]

## european languages & literatures

Students who join this bachelor degree will get a solid training in the Humanities (Language, Linguistics, Literature and Language Culture I - major Portuguese/English and Language II - minor English/German/French/Spanish), connected to a more practical and professional component, aiming for the qualification of professionals in the fields of culture, media, the editorial supervision, cultural industries and content creation, translation and preservation of heritage. The English monolingual variant aims to provide a solid background in English Studies. In articulation with 2nd cycle courses, it qualifies students for teaching in primary and secondary teaching. Major English - minor German/Spanish/French Major Portuguese - minor German/Spanish/French English/Monolingual.

bachelor [3/years]  
evening course

## music

The Bachelor degree in Music provides a highly specialized training in: Instrument, Musicology, and Coral Direction. Mobility and academic exchange in a training framework provided by the institutions of the European University and Higher Education Network are stimulated. In a culture of competitiveness and employability, internationalisation and root in community are paradigms of this educational project with an international faculty and a strong performative and investigative component of University nature oriented to the exercise of musical professions and access to the 2nd professional cycle in the education field.

—  
Prerequisites



**University of Minho**  
Institute of Arts and Humanities



bachelor [3/years]

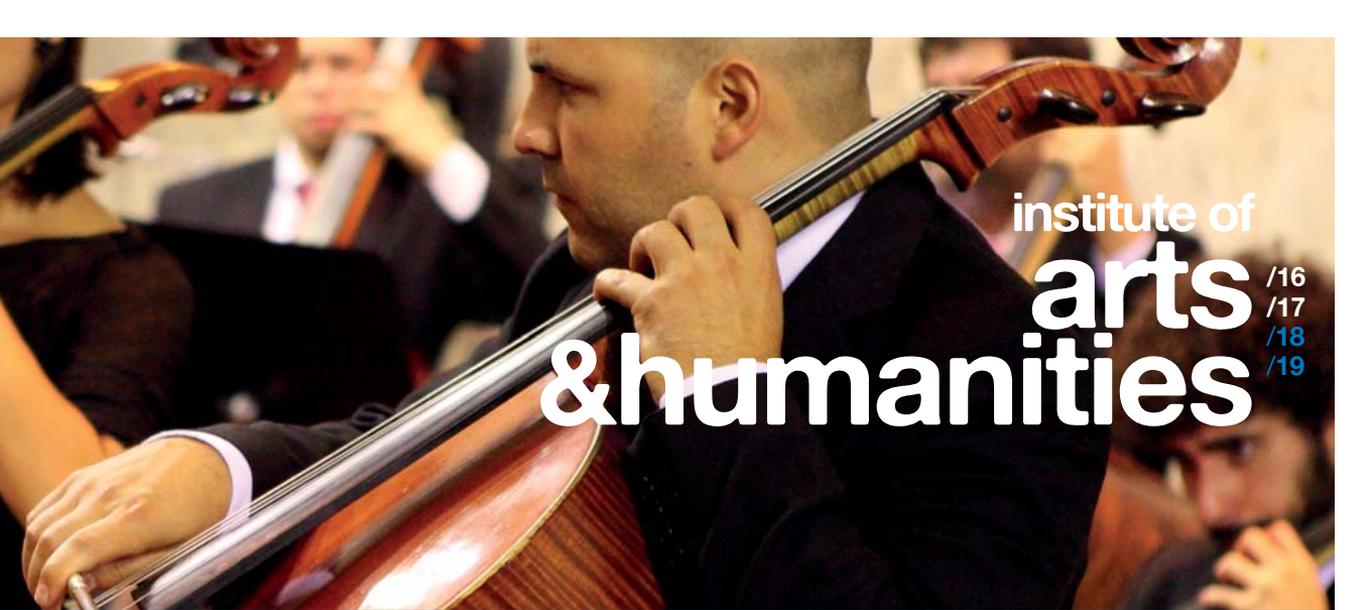
# oriental languages&cultures

Course with the core teaching in Chinese major language and Japanese minor language, both spoken and written, preparing students for a solid foundation of Chinese language, with knowledge of the cultural and socio-economic realities of China. The Chinese language teaching uses the criteria of the examination of Chinese HSK. After three years of study, students are strongly advised to further their Chinese language studies in a Master's degree. There is also the possibility of fulfilling Japanese language studies on a mobility programme, in Japan for a semester. Professional opportunities are related to the areas of translation, education, business and tourist activity.

bachelor [3/years]

# philosophy

This course enables students to deepen the main themes and problems of philosophy. The Bachelor degree in Philosophy from the University of Minho is particularly recommended to those looking for a solid cultural education and the development of critical thinking and expression skills. Thus, the profiled student for this degree includes those who have now finished their secondary education, but also those who have already had professional experience and seek for an additional qualification in a labour market where more than specialization, it is needed the ability to adapt and flexibility.



institute of  
**arts** /16  
& **humanities** /17  
/18  
/19

bachelor [3/years]

portuguese

# & lusophone studies

The Bachelor degree in Portuguese and Lusophone Studies provides a general and interdisciplinary training through the study of the Portuguese language in its European and non-European variant as well as the cultures and Portuguese, Brazilian and Portuguese-speaking African literatures, along with a solid background in field of classical studies. Having as preferred horizon employability in the areas of culture and education, this course enables its graduates to teach and to act appropriately in contexts permeated by new media and new behaviours and culture languages.

bachelor [3/years]

# theatre

This cycle of studies, with an unique profile in the country, offers a quality artistic training to students who intend to pursue professional careers in the theatre as actors, directors, set designers, playwrights, critics and teachers. In the light of an interdisciplinary and intercultural approach, the course offers a variety of performing and academic experiences which prepare students for the professional world and where students work with entertainers in the preparation of performative exercises publicly presented to the local and regional community.



**University of Minho**  
Institute of Education



bachelor [3/years]

# basic education

The Bachelor degree in Basic Education endows their technicians with knowledge and skills that allow them to observe and evaluate various educational settings within the territory of childhood and basic education; to build a global view of children and their contexts of life and learning, developing skills for action in fields relating to child and basic education; building capacity to develop learning, critical thinking, intellectual curiosity and openness to diversity, a perspective of education throughout life; access to Masters that qualifies for teaching in preschool and in 1st and 2nd cycles of basic education. This cycle of studies provides knowledge and skills that enable students for the exercise of various professional functions child-centred and network services to assist the Commission in particular curriculum activities, extracurricular activities and activities to support school integration.

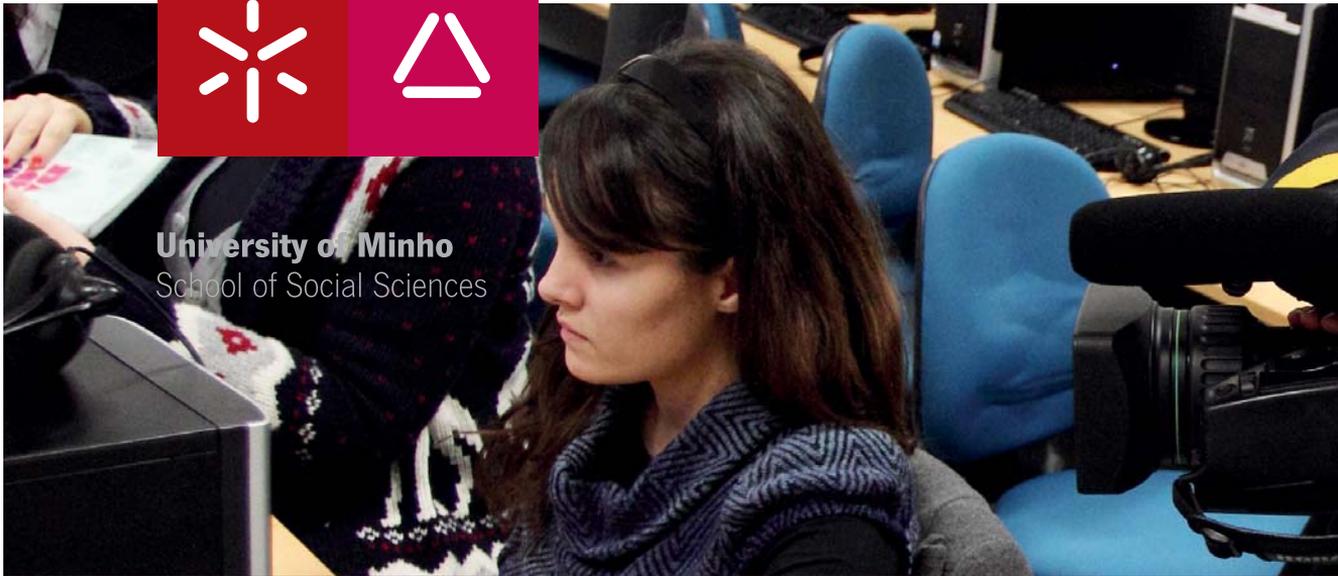
bachelor [3/years]  
day + evening course

# education

The Bachelor degree in Education provides professionals with knowledge and skills which allow them to observe and analyse socio-educational contexts, organizations with educational and training valences and activities where there are dimensions of education, training and lifelong learning; perform support functions in identifying educational problems in curriculum design courses in planning, organization, management and evaluation of programs and projects, training of educators and local development agents in youth work in community intervention and mediation. This cycle of study provides knowledge and skills that enable students to act within and outside the education system, particularly in terms of education, training, management training, socio-communitarian intervention and mediation.



**University of Minho**  
School of Social Sciences



bachelor [3/years]

# archaeology

The Bachelor degree in Archaeology provides a solid scientific background, which translates into theoretical and methodological updated knowledge and the ability to apply the practical exercise of archaeological activity. The course also provides the acquisition of other skills, particularly in the field of the interface of Archaeology with the new information technologies and the development of behaviours and attitudes with professional relevance. Graduates in Archaeology will be able to perform their work in enterprises, public institutions, municipalities, museums and other public or private entities in the country or abroad.

- Prerequisites: Group D

bachelor [3/years]

# communication sciences

The Bachelor degree in Communication Sciences was established as an introduction to the knowledge and practice of the exercise of various professions within communication. The double opening to a critical understanding of societies and cultures today and the role of communication in these contexts establishes a dialogue between reflection and action, knowledge and practices. It aims to help you understand and question the social dynamics, economic, political, professional, and ethical of the current communication, to an effective and responsible entrepreneurial intervention of these realities. This bachelor provides introductions to knowledge and practices in the areas of communication: information and journalism, advertising and public relations and audio-visual and multimedia.

bachelor [3/years]

## geography and planning

The Bachelor degree in Geography and Planning has as a primary goal to acquire skills for analysis and interpretation of complex relationships between man and the physical and human environment, especially in the areas of territorial planning and land management. During the degree, students will develop integration and synthesis capabilities necessary to understand the factors and processes that determine the natural, social, economic and cultural dynamics, expressed in the use and occupation of space, and it is given emphasis to the technological tools (geographic information systems) to support analysis and decision making.

bachelor [3/years]

## history

The Bachelor degree in History ensures solid knowledge of all historical times, including the present time. Alongside the National and European History, the course enhances the spaces and extra-Europeans civilizations and provides effective knowledge on research and access to specialized information in media history. It develops relevant research skills and exercise an informed and critical attitude about historical knowledge and on the uses of History and historiography in the contemporary times.



**University of Minho**  
School of Social Sciences





institute of  
**social** /22  
**sciences** /23  
/24  
/25

bachelor [3/years]

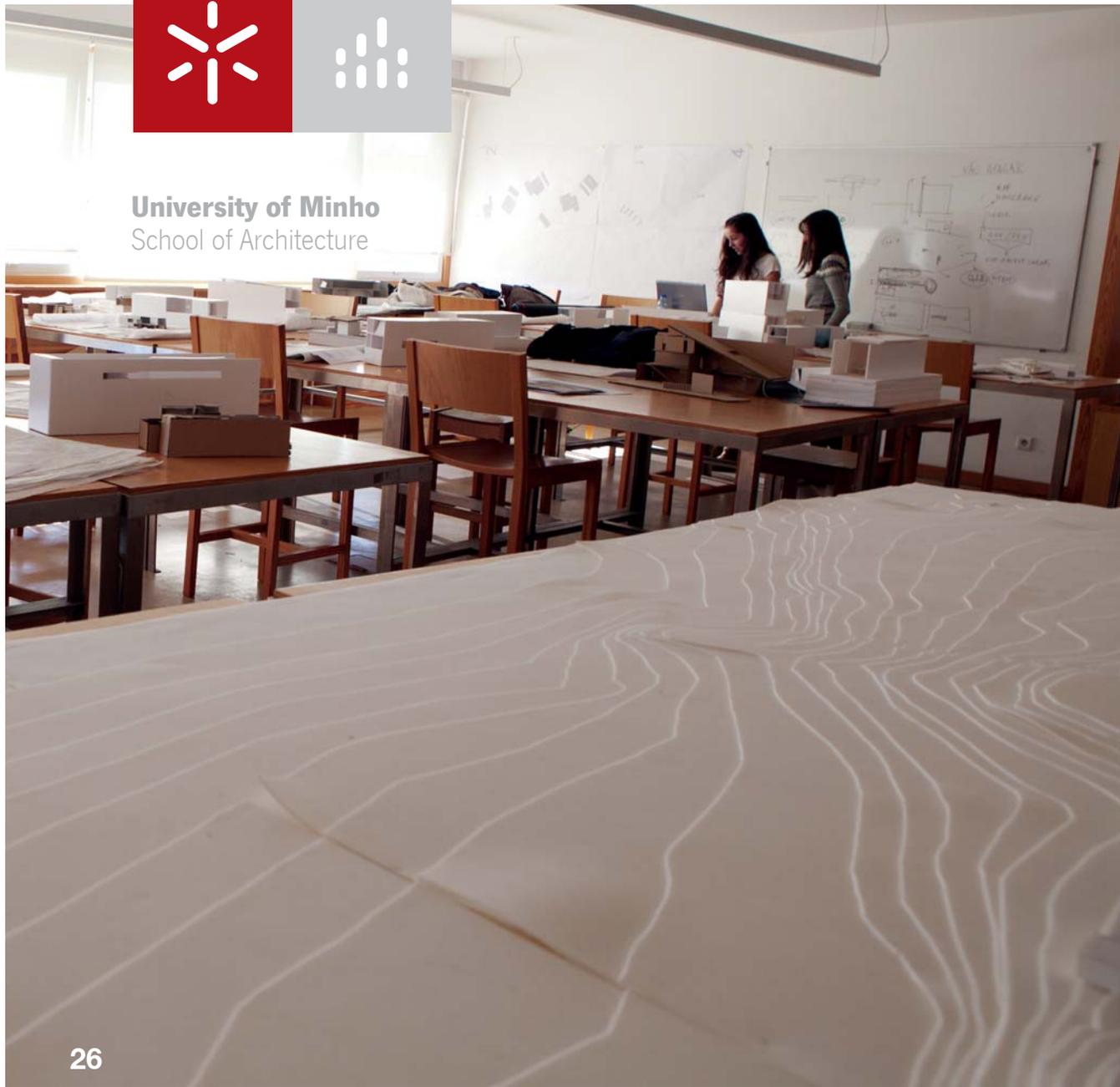
# sociology

The Bachelor degree in Sociology provides expertise in the areas of sociological theories and methods of social research, focusing on the analysis, diagnosis and intervention in the social reality. It is intended that students acquire knowledge in the classic areas of sociology, but also in other latest and complementary areas for the formation of the sociologist.

Thus, the curriculum offers compulsory subjects and optional ones, ensuring flexibility and adaptation to the particular interests of students and the needs of civil society and the surrounding community.



**University of Minho**  
School of Architecture



# school of architecture /26 /27

integrated master  
[5/years]

## architecture

The architects graduated from UMinho are enabled to the exercise of professional activity in Architecture, Urbanism, Urban Design, Rehabilitation and Building Maintenance and Interior Architecture, being able to practice it in institutions and companies, R&D Centres or as liberal professionals.

Through a learning based on Project exercise, supported by the theoretical and technological dimension, both structuring in this course, creativity, critical thinking and the students' ability to work in a team are encouraged. The ethical values of citizenship and environmental awareness, are promoted sensitizing the future architect to the sociocultural characteristics of the medium in which he operates.

bachelor [3/years]

## product design

The Bachelor degree in Product Design graduates designers able to conceive attractive, enduring and economical products which constitute capital gains to industry and society. The development of the necessary skills to these professionals is based on a theoretical and practical learning, which is developed and deepened throughout the course. The knowledge of the potentialities and limitations of the materials as well as the respective handling and manufacturing technologies, prepares these graduates to creating innovative solutions through integrated development of projects (design-manufacturing-assembly-distribution) in design offices, in industry and R&D centres.



**University of Minho**  
School of Economics and Management



evening course  
bachelor [3/years]

# accounting

To the Accounting professionals is required that they make available useful information for decision making and participate with their knowledge in organizations. The study plan of this bachelor degree is based on a comprehensive and thorough approach in key areas of accounting, taxation and auditing. It has theoretical, practical and technological training components that enable its graduates to obtain the necessary skills for an easy adaptation to the organization in which they provide services, or for continuous learning. Professional accounting is an asset for all organizations, whether private or public, with or without profit and at a national or international level. This bachelor degree in Accounting is recognized by the Order of Chartered Accountants.

bachelor [3/years]

# economics

The Bachelor degree in Economics provides its students with a solid background in theoretical foundations of Economics and Quantitative Methods. It exposes students to various areas of Applied Economics - such as bank savings and insurance, innovation, environment, macroeconomic policies, health and work, among others, with a strong approach to the economic reality and business. Use teaching / learning methodologies which stimulate the independent and cooperative work of students, ensuring the acquisition of necessary skills for their success in the labour market. These factors have contributed to making this degree a reference in the field of Economics in Portugal, observable in the fast and successful integration of its graduates into the labour market.



school of  
**economics  
& management**

/28  
/29  
/30  
/31

bachelor [3/years]  
evening course

## **international business**

The Bachelor degree in International Business aims to prepare students who will be able to understand and act in the process of international organizations and economic globalization. The non-native language domain is a feature of the course, therefore part of the teaching will take place in English, encouraging the frequency of a year or semester of their studies abroad. The profile of graduates makes them especially designed and able to occupy relevant positions in different functional areas of business, particularly in the areas of trading, marketing and finance, but also in human resources, accounting, logistics and technology, organization and methods.

bachelor [3/years]

## **international relations**

The course provides the essential tools for training students for international organizations, diplomatic service, international relations ministries and other public and private organizations departments. NGOs, financial institutions and academic career. A multidisciplinary and flexible program and the quality of education allow the development of a versatile and competitive profile for the performance of functions such as coordinating international relations offices; plan, organize and evaluate business internationalisation projects; analyse and manage policy-making processes; exercise diplomacy and negotiation in multicultural international contexts.



**University of Minho**  
School of Economics and Management

bachelor [3/years]

# management

The mission of the Bachelor degree in Management is to train managers with an integrated and strategic view of organizations and their competitive environment. The graduate in Management is able to apply different theories, conceptual frameworks, methods and methodologies in the grounds of decision making. The graduate will also be able to organize different resources, rank priorities and have a proactive attitude of leadership and entrepreneurship. To the graduates in Management there are opened several opportunities in various professional functions in the areas of strategic management, human resource management, logistics, production management and operations, entrepreneurial finance, marketing, accounting and auditing.

bachelor [3/years]  
evening course

# marketing

Marketing is present in everything around us. Brands, products, services and people are increasingly using marketing principles and techniques to create economic and social value. The degree in Marketing aims to train people for excellence, endowed with knowledge and scientific, technical and fundamental ethics. Integrates active learning methodologies centred on the student, promoting their independence, responsibility and the demand for knowledge and skills. The subsequent licensee, may have a career in charge of marketing, product, brand, customer, communication, public relations, sales or marketing research.



school of  
**economics & management**

/28  
/29  
/30  
/31

bachelor [3/years]

## political science

The course allows an informed participation in the political community and enables graduates to pursue highly qualified functions in the context of state governance, Central, Regional and Local Administration, within the European institutions, consulting firms of surveys and market studies, the media, in providing political coaching services, political and electoral marketing, among others. It focuses on the development of various technical skills which allow the correct use of quantitative and qualitative tools essential to the analysis and evaluation of political behaviour; the performance of political coaching functions and policy advice; implementation, evaluation and monitoring of public policies and programs.

bachelor [3/years]

## public administration

With a high quality faculty, which focuses on innovative teaching methodologies that promote skills development, ethics training and critical thinking, and a curriculum structure designed in order to provide the flexibility of graduates to adapt to the challenges of organizations, this degree in Public Administration aims to train qualified professionals in the fields of Public Management and Public Policy, with knowledge and skills to meet the growing challenges of modern public management. The course provides a solid theoretical and practical training to perform management functions in public administration, public enterprises, public interest associations and private companies.



University of Minho  
School of Engineering



integrated master [5/years]

## biological engineering

With a strong component in Chemical Engineering, the integrated master in biological engineering aims to train process engineers for industries where biological and/or physical and chemical processes predominate. Specific areas are located in multidisciplinary fields such as Chemical Technology and Food and Environmental Technology - fermentation industries, agro-food, pharmaceutical and chemical industries; pollution and energy sectors; ecology, biomedical and quality control and research. From a biological engineer it is expected creativity, proactive attitude, technical communication skills, leadership, entrepreneurship, team work, citizenship and an eco-sustainable conduct.

integrated master [5/years]

## biomedical engineering

The Integrated master in Biomedical Engineering is multidisciplinary and border which aims, initially, to address the difficulties faced by clinicians in tracking the progress of scientific-technological tools for medical support. Biomedical engineers apply principles of materials, electrical, mechanical, chemical engineering and other engineering to understand, modify or control biological systems, in addition to designing and manufacturing products and technologies that can monitor physiological functions, treatment of clinical data, assist in the diagnosis and treatment of patients.



# school of engineering

/32  
/33  
/34  
/35  
/36  
/37  
/38  
/39

integrated master [5/years]

## civil engineering

This course trains professionals capable of designing and technically direct all types of construction projects and public works. The subject areas of the course are: Structures, Geotechnics, Hydraulics, Building Materials, Construction and Construction Management, Communications and Planning. In the final year of the course, students may choose one of the four specialized sections: Buildings, Structures, Hydraulics and Environment and Territory Engineering. Graduates can work in developing projects of civil engineering specialties; management and supervision of projects; property development; public administration; manufacturing of materials and components; laboratories of construction or research.

integrated master [5/years]  
day + evening course

## engineering and management of information systems

The role of these engineers is to use the information technologies and its applications for organizations. The main actions of these professionals include organizational interventions related to the adoption of IT management technologies and organizational information systems, engineering work and organizational processes and managing organizational knowledge. Graduates also have technology translation skills that allow them to also engage themselves in building applications or establishing the organization's IT infrastructure. They will also be able to work in any organization, regardless of size or sector of the economy and in management and consulting firms.



**University of Minho**  
School of Engineering



bachelor [3/years]

## fashion design & marketing

The course trains expert designers in the textile and clothing areas, able to design high value-added products through innovation and creativity. It provides the designer with the knowledge and monitoring of market changes, being able to detect new needs or opportunities or technological innovation process, enabling continued development as a way to ensure the profitability and sustainability of companies and brands. The curriculum is multidisciplinary and has dynamic learning methodologies, with high demands in terms of performance, innovative, integrative and team spirit. The professional careers are diverse, enabling integration in offices of fashion creation, production companies and distribution and trade companies both national and international.

integrated master [5/years]

## industrial electronics & computers engineering

The course provides graduates, at the end of the 3rd year, a wide spectrum of skills with a strong practical component in the digital and analogical electronics, eletrotechnic, control and informatics, which allows them to develop integration projects. The teachers provides advanced training that enables them to design and implement systems and / or devices in two of six areas of specialization to choose from: automation and robotics, energy, microelectronics, software and dedicated computer, and telecommunications and information technology. Professional careers include developing equipment companies and services in these areas.



# school of engineering

/32  
/33  
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/36  
/37  
/38  
/39

integrated master [5/years]

## industrial management & engineering

This course is characterized by the diversity of fields of knowledge and the flexibility of its professionals working in various industrial and service areas, SME to large companies. The curriculum is directed to the rationalization of resources (machinery, transportation systems, tools, information resources, people, space, financial resources, etc.) in industrial and service companies in order to improve its overall performance. The main goal is to graduate students with technical and scientific knowledge to achieve steady competitive performance for production systems of companies.

integrated master [5/years]

## informatics engineering

The Integrated master in Informatics Engineering trains engineers able to apply the fundamental principles of computer sciences into the development of effective, robust and scalable software solutions. The curriculum covers all phases of the software development process, from analysis and design to implementation and maintenance. The training of these graduates also does not neglect their capacity to assess the cost and economic impact of the developed solutions, so it bets strongly in the laboratory and project component. The graduates of Informatics Engineering are recognized for the quality and accuracy which scores their performance, and are able to develop work in any area of information and communication technologies, or to successfully continue their education in later cycles.



**University of Minho**  
School of Engineering

integrated master [5/years]

# materials engineering

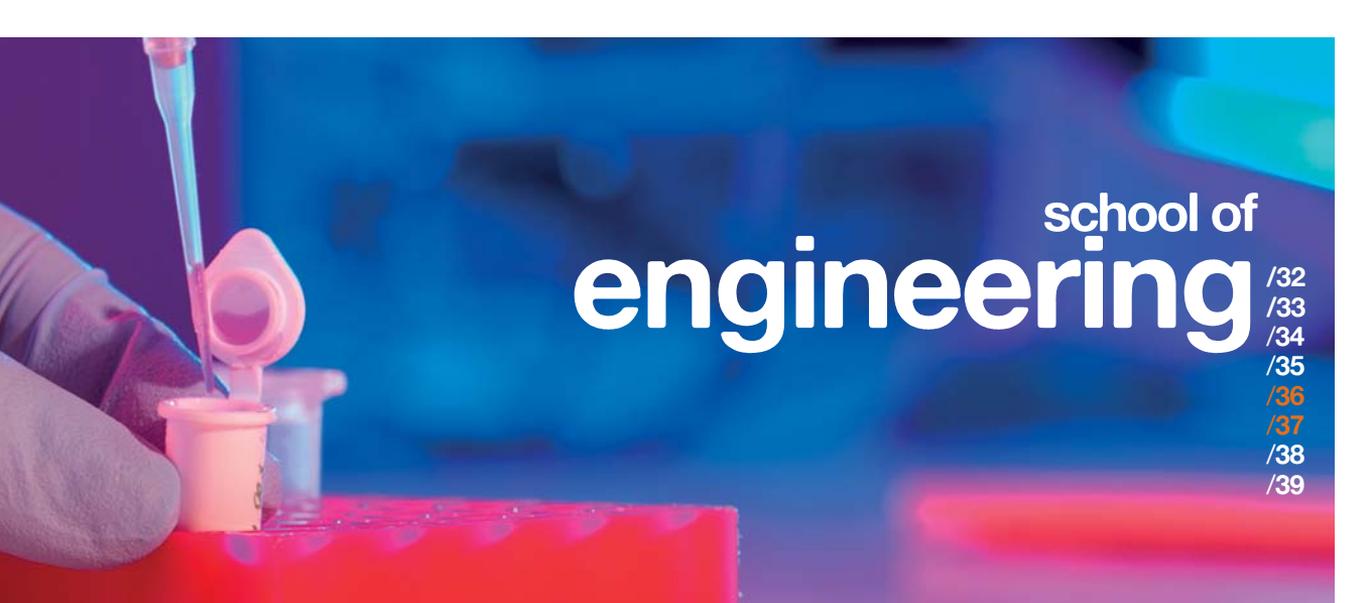
Materials Engineering is a multidisciplinary and cross course in a key area for the development of new materials and technologies. Trains engineers with a vast knowledge of the properties of materials, characterization techniques, methods and manufacturing technologies. The goal is acknowledge the structure-processing-property relationships that determine products' performance. The materials engineer is able to analyse the raw material, understand and manipulate their properties for the development of new materials. It is also able to select materials, design and build more innovative products and technologies. Graduates will be able to work in various industries and services, as in the production of raw materials, product development industry, processing industry, micro and nanotechnology industry or aviation, consulting and sales, quality control and research.

36

integrated master [5/years]

# mechanical engineering

The course provides a multifaceted training combining basic sciences, of engineering and of specialty. Students get faced, throughout their training, with engineering problems of increasing complexity as part of a coherent path. There are more and more activities in areas of strong intervention that require a recognized professional and which the course includes: mechanical project in general; granting of permits; structural calculation; activities in the field of energy (gas, air conditioning or heating systems), among many others. The career opportunities cover a wide range of activities from manufacturing companies, services or R & D, including practice areas ranging from plastics, to textiles, electronics, automation and mechatronics, lying special emphasis on automotive, shipbuilding or aircraft, among others.



# school of engineering

/32  
/33  
/34  
/35  
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integrated master [5/years]

## physics engineering

This course has two training courses: Devices, Microsystems and Nanotechnology and Physics of Information. The collaboration with the Iberian Nanotechnology Laboratory (INL) will allow access to advanced technologies in the micro and nanofabrication area, with the focus on new product development in the field of Nano biotechnology and Nano electronics, among others. The Physics of Information will open a still undeveloped area in Portugal, but with a great future technological impact, which allows us to understand and develop new information and communication processing means governed by the laws of physics. The main career opportunities are related to information technology and communications, areas related to life sciences, energy, technologies used in space and consulting; research and teaching.

integrated master [5/years]

## polymer engineering

The strategic importance of training and development in the field of polymeric materials is particularly visible in most of the products that surround us and provide ease of use - automotive, sports, electronics, computers, mobile phones, packaging, etc. This Integrated Master is based on a solid background in engineering, the knowledge of plastic materials, its main processing techniques and design principles, and seeks to develop critical thinking and innovativeness. It aims to train professionals in Polymer Engineering with appropriate skills to industries and related services to the industrial sector of plastic, able to join the national and international labour markets. The laboratories of the Polymer Engineering Department are the most complete and advanced in Europe.



**University of Minho**  
School of Engineering



# school of engineering

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integrated master [5/years]

## telecommunication &informatics engineering

The course provides knowledge of communication systems, integrating the fields of electronics and information technology. The graduate will be holding specific expertise in different technological aspects, including in the areas of radiation and electromagnetic propagation, coding and transmission of information, computer communication networks, mobile systems, management and operation of networks and communication systems, as well as new services and applications supported by modern integrated telecommunications systems. Because of his profile, he will be able to work for telecom operators, enterprises in the area of computer networks, companies that develop equipment and applications for telecommunications and content providers, without forgetting the centres of research and development that develop work in this field.

integrated master [5/years]  
day + evening course

## textile engineering

The enormous diversity and applicability of the used textiles make textile engineering a domain of knowledge of broad spectrum that relates the composition, structure and processing of materials with their properties. These professionals carry out their activity in companies and research institutions linked to the textile row and clothing in the area of materials and textile processes with high added value, including R&D on new materials, technologies and advanced technical textiles. The working areas are centred in the sector of technical textiles - ropes, filters, upholstery, fabrics for tires, structures and parts for aircraft, satellites, spacecraft, cars, boats, bicycles, etc.); and in complementary areas to the industrial sector - distribution, manufacturers /representatives of textile machinery, dyes and auxiliary products, consultancy, research and development, laboratories, etc.



University of Minho  
School of Law

bachelor [3/years]  
evening course

# criminology

A degree in Criminology articulates the knowledge and methodologies from different scientific areas, to understand and explain the crime, the offender, the victim, criminal justice, the control devices and phenomena of social reaction to crime. This degree enables the student to a global understanding of the crime and to the development of a critical and reflective attitude towards it. Students may therefore constitute an effective added value at work which they may develop in the police, in prisons and in official bodies involved in monitoring, at different levels, the phenomenon of crime.

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\*Course accredited by the Portuguese National Agency for Higher Education. Waiting for Government License to start.

bachelor [4/years]  
day + evening course

# law

The Bachelor degree in Law is distinguished by the promotion of an adequate and complete legal training, following high standards of academic rigor preparing students not only for traditional legal careers - the bench, the bar, public administration, notary and registry work - but also for more innovative paths in the public and private business sector. The student should gain a robust command of the Portuguese legal system as well as a strong capacity for critical reasoning and independent thought.



**University of Minho**  
School of Nursing





# school of nursing

/42  
/43

bachelor [4/years]

## nursing

The Bachelor degree in Nursing aims to ensure the scientific, technical, human and cultural training of the nurse, enabling him to provide and manage general nursing care to the individual, family, groups and the community in the different levels of prevention; participate in the management of health services; participate in the training of nurses and other health professionals; and develop and participate in research projects aimed at the progress of nursing and health. The training plan is based on a curricular organization of modular type, based on a switchover process, with experience in the clinical context, where each module is constituted as a totality which contributes to the development of a given set of skills.

Prerequisites: Group A



**University of Minho**  
School of Psychology





# school of psychology /44 /45

integrated master [5/years]

## psychology

The Integrated master in Psychology is designed to enable the acquisition of scientific knowledge in the basic areas and the development of advanced knowledge in the applied areas of psychology. The first three years – bachelor degree in Psychological Science, focus on the study of the basic psychological processes, as well as the techniques and methods used to study them, in the theories built to explain them and its applications in solving human problems. The applied cycle (two following years) assumes a logic of professional nature, seeking to promote competence assessment, intervention and research in specific fields of professional and scientific activity of psychology.



University of Minho  
School of Sciences

bachelor [3/years]

# applied biology

The Bachelor of Applied Biology prepares professionals with a solid knowledge in the Life Sciences, using interactive teaching/learning methods with a strong component on experimental techniques and practices.

The course provides qualification in multiple areas of Biology ranging from the molecular and cell biology, organisms, populations and communities.

At the end of this degree, the acquired theoretical and practical competences will be useful for several professional activities, related with the health, environment, industry and agriculture sectors.

The working context is an increasingly organized and competitive world in which they will play a key role, since the need for solving tasks with scientific foundation is essential to ensure the development of Portugal.

bachelor [3/years]

# applied statistics

The degree in Applied Statistics trains professionals who master various techniques of Statistics, with communication and group work skills, allowing their integration in multidisciplinary teams to support the decision-making in large organizations. These organizations may be hospitals and pharmaceutical companies, consultants, banks and insurance companies, media, government entities and municipalities, universities, industry. The degree has a strong component of modelling and solving problems in areas as diverse as Medicine, Biology, Physics, the Engineering, Economics and Finance. The context in which it will place the new graduates is an increasingly organized and competitive world in which they will play a key role, since the need for solving tasks with scientific foundation is essential to ensure the development of Portugal.



labbox

400ml

400  
APPROX

300

200

100

school of

sciences

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/48  
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bachelor [3/years]

## biochemistry

The Bachelor in Biochemistry trains professionals with a solid preparation in the various fields of this science, ranging from biomolecules to the operation of the agencies, through the analysis of molecular structures, the organization and physiology of the cell and the molecular biology and genetics. During the course the students acquire skills that allow the performance of scientific, technical and commercial tasks, in different sectors such as health, the pharmaceutical industry, food industry, agriculture and the environment. Graduates of this 1st cycle may access to a wide variety of Master courses that will enable them to acquire new skills and more specific and advanced knowledge.

bachelor [3/years]

## biology & geology

The Bachelor in Biology-Geology provides scientific training in the fields of Biology and Geology. Besides offering subjects in both fields of science, it seeks to broaden the access of graduates to the market labour and enables them to collaborate in various socio-professional sectors, such as environment, management and nature conservation, exploration and exploitation of natural resources and scientific research. The course also provides technical and scientific capacity to access masters in the environment fields not excluding classic areas of Biology, as Plant Biology, Animal, Molecular and Microbiology and Geology, as Hydrogeology, Geological Prospecting, Mineral Deposits, Cartography. The course also enables the conditions of access to the 2nd cycle which qualifies for teaching the 3rd cycle of primary and secondary education.



**University of Minho**  
School of Sciences

bachelor [3/years]

# chemistry

The Bachelor degree in Chemistry provides a solid grounding in the core areas of chemistry, in both their theoretical and laboratory components, and basic training in complementary areas.

The course offers the choice of four alternative paths: Chemistry, Medicinal Chemistry, minor in Physics and minor in Plastic Materials. In the last semester, an internship is permitted in the industrial context or in scientific research laboratories. A graduate may perform scientific, technical and commercial tasks in the field of the chemical, pharmaceutical, food, cosmetic industry, polymers, paints, detergents, textiles, paper, cork, wood, leather and treatment/recovery of waste. The acquired training will also allow access to a variety of master courses, which provide advanced and specialized knowledge.

bachelor [3/years]

# computer sciences

The degree in Computer Sciences is characterized by a strict vision of computing, with a solid mathematical foundation. The course structure includes extensive training of scientific basis, enabling its students to achieve a full professional life with the skills needed to the analysis and responsible reflection of problems in the area of information technology, to the harmonious development of robust software applications and quality, and its integration in appropriate technology platforms. The graduates are strong candidates to pursue a vocational further training in a wide range of 2nd cycle courses in UMinho or anywhere in the European Union.

bachelor [3/years]

# environmental sciences

The Bachelor in Environmental Sciences trains professionals with skills to analyse the phenomena that controls the state of the environment. These graduates can contribute to the technical decision-making and / or policy process which are based on extensive scientific criteria. The simultaneously integrative and specialized on the Environment allow interventions of these graduates to the level of regional planning, nature conservation, environmental monitoring and risk control, in different professional areas: the business community - consulting and environmental services; research - access to postgraduate training and research in various fields of science and environmental technologies; and State agencies, municipal and multi-municipal companies.

bachelor [3/years]

# geology

The Bachelor in Geology trains graduates that, in addition to conventional skills in the field of geology, have a training addressed to the sustainable management of geological resources in a planning framework which promotes environmental quality. The geologist has a key role in the discovery of raw materials and the research of water resources and also on issues related to natural hazards, water and soil pollution, and territorial planning. Certification bodies, mining production companies, ceramics and industrial stony products can absorb these graduates, as well as some consultancy agencies, supporting projects and management of both public sector and private sector, in fields of planning, services, justice, production and marketing.



**University of Minho**  
School of Sciences

bachelor [3/years]

# optometry & vision sciences

The goal of the Bachelor degree in Optometry and Vision Sciences is to train optometrists to perform professional tasks in an autonomy regime activity or by integrating multidisciplinary teams in the area of vision care and related areas, namely in the research of the vision sciences and in optical material and devices manufacturers and trading companies boards. Optometrists develop, mainly, activities in the detection, prevention, evaluation and compensation of changes in the visual function. The course syllabus has been designed to also allow the acquisition of skills to detect, analyse and make visual refractive problems, functional and binocular nature; prescribe compensating lens, visual aids, training and/or visual rehabilitation and prescribe and adapt contact lenses.

50

bachelor [3/years]

# mathematics

This degree in Mathematics is characterized by being an embracing degree where basic skills in mathematics are taught, either in their fundamental component or the applied component, being given particular emphasis on the use of symbolic calculation software, numerical, graphical capabilities and statistics. This degree aims to provide students with the knowledge and skills related to mathematics, developing their accuracy and analysis skills, so that they can later apply them in the context of the business world, research and teaching. The training obtained from this degree will provide its graduates skills with that will enable them to make a wide choice of masters in the areas of Science, Economics and Management or Engineering.

bachelor [3/years]

# physics

This degree in Physics trains graduates with a solid and comprehensive knowledge that encompasses both mechanics, electromagnetism, optics, thermodynamics and statistical physics such as quantum physics, condensed matter physics, atomic physics and physics of the nucleus and of elementary particles.

The degree also has a strong component in experimental physics and allows two alternative routes: Physics and Physics with minor in Chemistry. It provides access to a broad range of master courses, where students can get specialized training, including qualification for teaching. Graduates in Physics are able to perform scientific tasks in laboratories and research centres and technical functions and consulting in areas as diverse as the industry, the hospital area and nature of financial companies.

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