



Student Guide

Portugal, 2021



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HOST COUNTRY AND CITY

Portugal

Portugal is one of the world's oldest countries. It became an independent nation in 1143, and has maintained its independence and national boundaries from the 13th century to this day, except for a brief period under Spanish domination between 1580 and 1640. Portugal became a republic on 5th October 1910 and is an established democracy today.

Portugal has a rich seafaring past, superb beach resorts, wistful towns and a landscape wreathed in olive groves, vineyards and wheat fields. Littered with UNESCO World Heritage sites and graced by one of Europe's most relaxed and attractive capitals, it also remains refreshingly affordable. Savouring life slowly is a Portuguese passion, and much of the best is humble - traditional folk festivals; simple, honest food drowning in olive oil; music that pulls at the heart strings, recalling past love and glories; and markets overflowing with fish, fruit and flowers.



LOCATION:

South-Western of Spain and Europe, Iberia Peninsula. Borders the Atlantic Ocean on western and southern coast. North of Morocco, North Africa.

AREA:

Total Area: 89,456 km²

Water territory: 400 km²

COASTLINE:

1,621 km

CLIMATE:

Portugal has a mild weather, winters are never too cold and summers are always moderately hot. Lightweight clothing is suitable from June to September. A topcoat and umbrella are advisable for autumn and winter.

POPULATION:

10, 295, 909 (2019 est.)

RELIGION:

Roman Catholic 81%, other religions 3,9%, non-religious 15,1% (2011)

LANGUAGE:

The official language is Portuguese. It is also the mother tongue in Brazil, Mozambique, Angola, Cape Verde, Guinea, Timor and S. Tomé e Príncipe.



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GOVERNMENT INFORMATION

Government type: Parliamentary democracy

Capital: Lisbon

Administrative divisions: 18 districts and 2 autonomous regions*; Aveiro, Açores (Azores)*, Beja, Braga, Braganca, Castelo Branco, Coimbra, Évora, Faro, Guarda, Leiria, Lisboa, Madeira*, Portalegre, Porto, Santarém, Setúbal, Viana do Castelo, Vila Real and Visau.

Independence: 1385 (independent republic proclaimed 5 October 1910)

Constitution: 25 April 1976, revised 30 October 1982, 1 June 1989, 5 November 1992, 3 September 1997 and 2004.

Legal system: Civil law system; the Constitutional Tribunal reviews the constitutionality of legislation; accepts compulsory ICJ jurisdiction, with reservations

Suffrage: 18 years of age; universal

Executive branch:

Chief of State: President Marcelo Rebelo de Sousa (since 24 January 2021)

Head of government: Prime Minister António Costa (since 26 November 2015)

Cabinet: Council of Ministers appointed by the President on the recommendation of the Prime Minister

Elections: President elected by popular vote for a five-year term; (eligible for a second term); election last held on 24th January 2021; following legislative elections, the leader of the majority party or leader of a majority coalition is usually appointed Prime Minister by the President

Legislative branch:

Unicameral Assembly of the Republic or Assembleia da República (230 seats; members are elected by popular vote to serve four-year terms)

Elections: last held 6th October 2019 (next to be held September 2023);

Judicial branch:

Supreme Court or Supremo Tribunal de Justiça (judges appointed for life by the Conselho Superior da Magistratura)

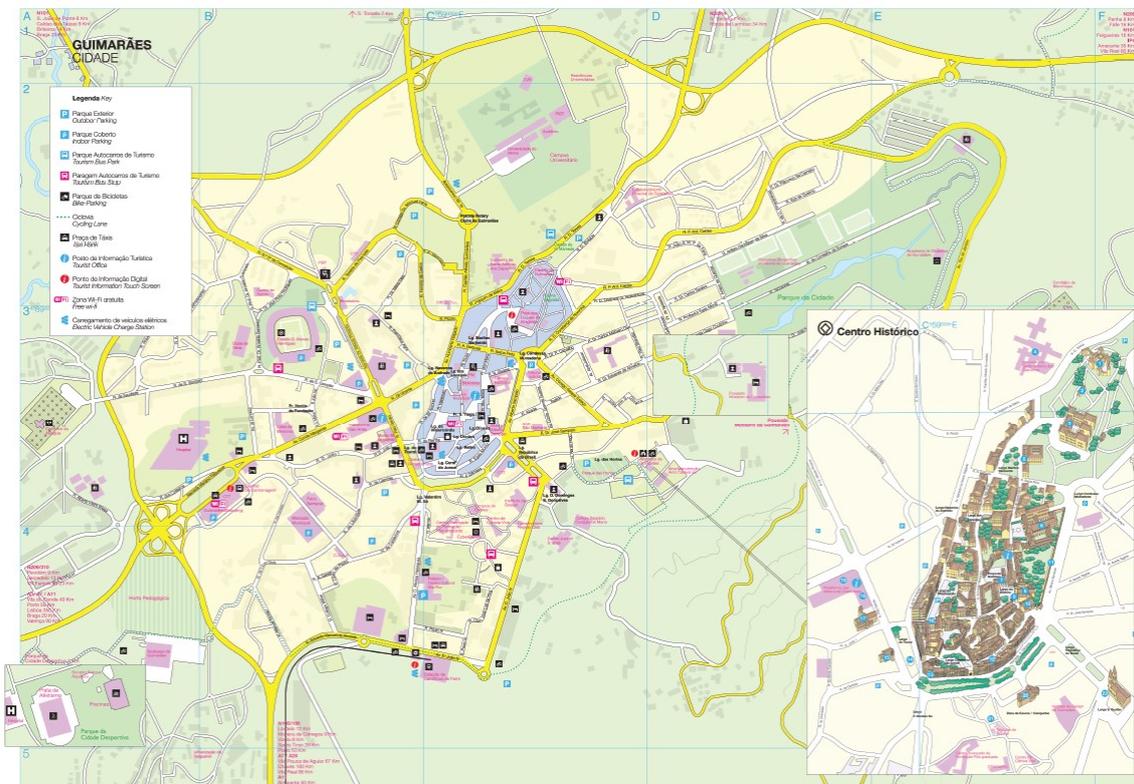
THE CITY OF GUIMARÃES

Guimarães, the city you will be living in, is located in north-western Portugal, approximately 350 km north of the capital, Lisbon, and about 50 km from the second largest city, Porto. In administrative terms, it is a county made up of 69 parishes, occupying an area of 240,955 km² and including about 160,000 inhabitants. Guimarães, is located in the district of Braga, in the northern and sub-region of Ave (one of the most industrialised sub-regions in the country). It has a population of about 52 thousand inhabitants (in 20 parishes), spread through an urban area of 23,5 km². It has a population density of 224 inhabitants per km². Most of the population resides in the city and its suburbs.

Guimarães was successively a “Citânia”, a Roman Village, a barbarian and Christian village up to the 9th Century.

In the first half of the 10th century, the location where the city of Guimarães is implanted today was a rural property – the estate Quintana de Vimaranes. But the death of a man – Count Hermenegildo – and the Christian faith of his widow, Countess Mumadona, made it so, that in the second half of the 10th century, this rich Countess of Galician origin decided to build a monastery there – the Mosteiro de Santa Maria – and a castle. The castle was built with the purpose of protecting the monastery from the frequent raids carried out by Normans from the North of Europe, and by Muslims coming from the warm lands of the South. With the passing of time, the Bourg grew and, at the end of the 11th century, there come to reside here D. Teresa, daughter of Afonso VI of Leon, and her husband, Count D. Henrique, a noble of French origin. Here, according to tradition, was born the eldest of their sons – Afonso Henriques –, who, some years later, in the first half of the 12th century, became the first King of Portugal. It was also in Guimarães that the famous battle of S. Mamede, which opposed D. Afonso Henriques against his mother D. Teresa, took place; one of the historic facts that led to the independence of Portugal.

In view of the facts described, Guimarães is considered by the Portuguese to be the birthplace of the nation. A unique and special city, Guimarães is set apart by its magnificently restored heritage, by its cultural dynamics. The restoration work and regeneration of its heritage led UNESCO, to, in 2001, recognize the Historic Centre of Guimarães as World Cultural Heritage, the valorisation of culture as a factor of development. It fomented the creation of a network of cultural facilities that places Guimarães in a leading position in the arts and entertainment areas, both nationally and internationally. European Capital of Culture in 2012 and European City of Sport in 2013, Guimarães presents itself today as a territory open to the world and to contemporaneity, with a deep tradition of dialogue and cultural practices.



TRAVELLING IN GUIMARÃES

Buses

TUG (Public Transports of Guimarães) covers almost all of Guimarães and runs from 06:00 to 23:00. Running hours are shown at bus stops. A single bus ticket costs 1.85 €. A monthly pass, commonly called “*passê*”, is valid for the urban network and costs 47.60 €.

Taxis

You can hail a taxi in the street, or take one from a taxi stand. The telephone taxi companies are honest. The driver may be polite, and should give you a receipt for the ride.

You can call a taxi at: 253 513 535, 253 525 252

UBER/BOLT

You can use UBER and similar platforms, in Guimarães, by downloading the application onto your mobile phone.

Bike

If you are considering bringing your bike or motorbike to Guimarães, take into account that the terrain may be hard. There are, however, several bike paths connecting the city of Guimarães to several neighborhood areas, for a total of 16,5km. There are several rental places in the city to rent a bike by the hour.

Car

We do NOT recommend bringing a car to Guimarães. It is a small city and the public transportation system is cheaper.

Some general traffic rules:

- Seat belts must be used at all times, including rear seats.
- Maximum speed: 90 km per hour, in all built-up areas 50 km per hour, motorways 120 km per hour
- Motorways fees (*portagem*, toll fees apply)

TRAVELLING OUTSIDE GUIMARÃES

When you travel outside Guimarães, you can use a train or a bus. Both are quite cheap and reliable. You will be able to find connections to every village of the country, especially by train.

By air

The nearest airport is Francisco Sá Carneiro International Airport, located in the suburbs of Porto, about 50km from Guimarães.

Phone number: +351 - 229 432 400

By train (CP – *Comboios de Portugal*) - <https://www.cp.pt/passageiros/en>

Guimarães is part of the modern network of trains that link the main cities in Portugal. This is probably the best way to travel.

One word of warning about taking trains within Portugal is that different trains will take different lengths of time to reach the same destination - so check the travel time before you buy a ticket.

Phone number: 808 109 110

By bus

The Bus Centre (*Central de Camionagem*) is in Alameda Dr. Mariano Felgueiras, near Guimarães Shopping.

The main regional buses operators are:

- ARRIVA Portugal (<http://www.arriva.pt/>) - Phone: 253 423 500 and
- INTERNORTE (<https://www.internorte.pt/en>) - Phone: 253 209 400, 253 209 402
- REDE EXPRESSOS (<https://rede-expressos.pt/en>) – Phone: 21 75 24 524

UNIVERSITY OF MINHO

Universidade do Minho is located in the centre of the Minho region, as a part of the *Costa Verde* (Green Coast) region, forming the NorthWest corner of Portugal. It is a public university with administrative and financial autonomy. It was founded in 1973 and started its academic activity in 1975/76.

UMinho has a set of infrastructure and services providing support to students and teachers, and responds to the various needs of both. UMinho students can find everything they need on campus

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from 8:00AM to 10:00PM: libraries, computer labs, wireless broadband Internet connection, reprographic services, banks, bookstores, cafeterias, canteens and reasonably priced restaurants.

The three *campi*, one in Braga and the other two in Guimarães, have a total of 30 libraries including two general libraries (in Braga and Guimarães) with about 300.000 books and 600 seats. A Classic Library (with more than 300.000 books dating from 1450 to 1900), and several specialised libraries (over 100.000 books) and 17.000 scientific journals accessible through the Digital Library b-on. There are also 3 sports halls, three canteens (4.000 meals/hour), a snack bar, 2 grills, a restaurant and 14 cafeterias.

Whilst Universidade do Minho (UM) is a young University, having been founded in 1973, it enjoys a very high reputation for its research and educational performance. It is a medium sized University with over 19000 students, of which nearly 3000 are international students.

Presently, the University is located in three sites: the campus of Braga (Gualtar) and the *campi* of Guimarães (Azurém and Couros). The courses in Architecture and Engineering are taught in Guimarães. The other courses are predominantly ministered in Braga.

HOW TO GET TO UMINHO – GUIMARÃES

The Francisco Sá Carneiro International Airport is connected with the Porto railway central station (Campanhã) by metro line E (violet line). The travel takes 25 minutes, with trains departing every 20 minutes. Tickets can be purchased at the automatic ticket machines located in the Metro station or in the Airport information desk. Tickets must be validated before travel by scanning them in front of the yellow machines located in the stations.

The Airport Station is located just in front of the arrivals zone of the International Francisco Sá Carneiro Airport, in parallel with the two existing roadways. Nevertheless, the travel between both is guaranteed by a proper underground passage. When arriving at the Airport Station, you only need to go down a floor and, in little less than 50 meters walking, you will be inside the Airport. Equally, the access to the Station from the interior of the Airport is extremely simple and practical as it is adequately signalled.

There are also buses (STCP, FlixBus) that link the airport to Porto, all the stops are just outside the arrivals gate.

From Porto, several transportation options are available to reach Guimarães (see below).

An alternative and quicker solution is the bus that links Guimarães and Braga to the airport. The cost is of 8€ one way and the journey takes approximately 45 minutes. The timetable may vary and it is available on the website (<https://www.getbus.eu/en/>).

FROM PORTO TO GUIMARÃES

Motorways and railways are the most direct means of reaching Guimarães.

By Motorway:

Using the current network of motorways, Porto can be reached from Guimarães in 30 minutes via the A7 and A3. Braga is a mere 15 minutes away on the A11 motorway. Taking the A11 and A3 northbound, Vigo, Spain is 90 minutes away, and Lisbon is 3 hours to south, via the A7, A3 and A1 motorways.

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By bus

From the centre of Porto you may take a bus to Guimarães at *Parque da Magauanha* (close to *Trindade*), where the Bus Station to Guimarães is located (<http://www.arriva.pt/horarios/>)

By train

Guimarães is part of the modern network of trains that link the main cities in Portugal. All-stop service between Porto and Guimarães takes approximately 80 minutes and costs around 3,25 euros. From the centre of Porto you can catch a train to Guimarães at *São Bento* Station, (<https://www.cp.pt/passageiros/en/train-times>).

By Taxi

If you wish to take a taxi from the airport to Braga or Guimarães: the journey takes approximately 45 min. and the fare is around 60€.

Once you arrive in Guimarães, it is better to take a taxi/UBER to your accommodation.

ADVANCED MASTERS IN STRUCTURAL ANALYSIS OF MONUMENTS AND HISTORICAL CONSTRUCTIONS

The Advanced Masters in Structural Analysis of Monuments and Historical Constructions is a part of the Civil Engineering Department.

The objective of the Advanced Masters in Structural Analysis of Monuments and Historical Constructions (SAHC) is to offer an advanced education programme on the engineering of conservation of structures of the architectural heritage, which encompasses all the different sources of knowledge and experience required by the discipline. The Master will combine the diversity of expertise at leading European universities in the field of structural analysis and conservation of cultural heritage constructions.

Structure and content: The study programme is composed of eight units, being six courses/units of 5 ECTS (45 hours of lectures and 95 hours of independent/group student work), one course project-based of 9 ECTS (45 seminar hours, 45 tutorial hours and 162 hours of independent/group student work) and one dissertation of 21 ECTS (30 tutorial hours and 558 hours of independent student work). Lectures are held from 9:30 to 12:30 and individual/group work is compulsory at University from 14:00 to 19:00.

The courses of 5 ECTS are given in 3.3 weeks without interruption. Each 5 ECTS course is divided in two modules with independent evaluation, when the lecturers are available for the students and provide extra tutorial as requested.

Therefore, each lecturer is typically involved two weeks in a single course. This allows foreign/external lecturers to deliver the module and is very beneficial for the students, as they have a lecturer almost full-time at their disposal for all the modules. The 5 ECTS courses are arranged as a mix of theory and application, in a context of a project-led education, where a project is effectively run for the full duration of the course.

The Integrated Project course (9 ECTS) is carried out during the full first 26 weeks of the MSc. This truly project-based course includes a mini group project to solve a real engineering problem, with site visits, and the preparation of a proposal work plan for the dissertation. In addition, special lectures by top world experts, practitioners or researchers, and seminars by the students are also part of the course.

Finally, the Final Project/Dissertation (21 ECTS) is carried out in the final part of the MSc (last 14 weeks). This aims at developing research and/or professional competences in the field of

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Conservation and Restoration of Architectural Heritage Structures. The dissertation can be carried out inside the Universities or in a private company, under University supervision. The general description of the course/units is as follows:

SA 1: History of Construction and of Conservation (5 ECTS)

- Introduction to modern conservation criteria. General concepts. Structural conservation and restoration.
- Construction techniques and structural components: masonry and earth.
- Construction techniques and structural components: timber and mixed systems.
- Construction techniques and structural components: metals. The use of metals in historical construction.
- Introduction to 20th century heritage structures. Structural concrete across 20th century.
- Overall structural arrangements in history.
- Ancient rules and classical approaches.
- Limit analysis: the static and the kinematic approach.
- Damage and collapsing mechanisms in historical structures: gravity and soil settlements; construction defects.
- Damage and collapsing mechanisms in historical structures: environmental and anthropogenic actions.
- History of conservation. The Athens Charter and the Venice Charter. Modern structural restoration practice.
- The application of conservation criteria in practice. Diagnosis, safety evaluation and design of intervention.
- Examples. Discussion of analysis and restoration of real heritage structures.

SA 2: Structural Analysis Techniques (5 ECTS)

- Aims, challenges and difficulties in the modeling and analysis of historical structures.
- Governing equations of the mechanics of continuum.
- The finite element method.
- Elasto-plastic constitutive models.
- Geometrical nonlinearity.
- Solution procedures for non-linear incremental FE analysis.
- Damage mechanics, smeared crack models.
- Applicability of continuum mechanics.
- Blocky limit analysis of masonry.
- Demonstration of modelling of real structures and examples.

SA 3: Seismic Behaviour and Structural Dynamics (5 ECTS)

- Introduction to earthquake engineering.
- Elements of seismology and seismicity.
- Elements of seismic hazard analysis.
- Dynamic analysis of single-degree-of-freedom systems.
- Dynamic analysis of multi-degree-of-freedom systems.
- Dynamic analysis of structures using the finite element method.
- Response spectrum analysis of linear multi-degree-of-freedom systems.
- Response history analysis of linear multi-degree-of-freedom systems.
- Non-linear dynamic and static analysis of structures.
- Earthquake-resistant design of buildings.

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- Structural dynamics in building codes.
- Elements of soil dynamics.
- Damage and collapsing mechanisms in existing (particularly historical) structures.
- Introduction to innovative earthquake-resistant systems

SA 4: Inspection and Diagnosis (5 ECTS)

- General methodology for Inspection & Diagnosis;
- Historical analysis, typical damages and deterioration processes in heritage structures;
- Visual inspection techniques for damage survey of structures with onsite applications;
- Non-destructive and minor destructive testing applied to historic buildings;
- Typical foundation damages and inspection techniques for geotechnical survey;
- Laboratory testing with masonry, concrete, metal and timber;
- Modal testing techniques and dynamic characterization of structures;
- Laboratory applications of AVTs;
- Vibration-based damage identification methods;
- Long-term monitoring of historic structures;
- From continuous vibration monitoring to FEM-based structural assessment.

SA 5: Repairing and Strengthening Techniques (5 ECTS)

- Introduction to repair and strengthening.
- Strengthening of foundations.
- Discussion of load transfer and long term effects.
- Strengthening of concrete structures.
- Design of timber structures.
- Strengthening of timber structures.
- Design of masonry structures.
- Strengthening of masonry structures.
- Strengthening solutions.

SA 6: Restoration and Conservation of Materials: (5 ECTS)

- Introduction to conservation and restoration of materials;
- Historical materials: identification, types and classification;
- Binders and mortars;
- Degradation of historic materials: physical, chemical and biological actions;
- Degradation of historic materials: disasters and anthropogenic actions;
- Salts in stone and masonry;
- Cleaning of façades;
- Repair materials and techniques;
- Consolidation of degraded brick and masonries;
- Consolidation of degraded mortar and plaster and interaction with fixed artistic heritage;
- Protective and coating layers;
- Restoration and conservation of wood;
- Deterioration and conservation of metals;
- Deterioration and conservation of 20th century heritage concrete and modern materials;
- Technical excursion;
- Laboratory works and in-situ investigations.

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SA 7: Integrated Project (9 ECTS)

- Field trips with presentations on case studies
- Seminars on conservation subjects not addressed in the course
- Comprehensive analysis of case studies in groups of 3 to 5 students

The curricular part of the Master Course is held in Guimarães, Portugal. The dissertation work is then equally divided by all partners. The students will indicate their preference during the application and the Management Board will decide a final selection based on the ranking of the first 20 curricular ECTS and a balanced distribution between Consortium members.

WHAT TO ACQUIRE BEFORE YOU COME

SAHC is a hands-on master course, so many laboratory and in-situ activities are planned. It is strongly advised that you bring with you steel toecap safety boots, work clothes, etc.

ECTS

The ECTS - European Credit Transfer System - was developed by the European Commission in order to provide common procedures to guarantee academic recognition of studies abroad. It provides a way of measuring and comparing learning achievements and transferring them from one institution to another.

The ECTS system is based on the principle of mutual trust and confidence between the participating higher education institutions. The few rules of ECTS, concerning the information on courses available (ECTS Information Package), the agreement between the home and host institutions establishing the programme of study to be taken (Learning Agreement), the use of credit units to indicate the student's workload (ECTS credits) and the use of a Transcript of Records, which shows the student's learning achievements in a way which is commonly understood and easily transferable from one institution to another, are set out to reinforce this mutual trust and confidence.

The grading system is a key issue in the academic recognition process for students participating in international mobility programmes. Grading scales vary according to host countries and institutions which increases the difficulty and complexity levels of the equivalence process.

Therefore, having in mind the different grading systems in Europe, a grading scale has been developed in the framework of ECTS (European Credit Transfer and Accumulation System) to make the comparison between different national scales easier and the assessment process more transparent.

The ECTS grading scale allows the qualitative assessment of students' performance in the subjects attended at the host institution.

At the first level, this grading system divides students into two separate groups: pass and fail; and afterwards, those obtaining passing grades are divided into five subgroups. An ECTS grade is allocated to each subgroup.

The ECTS grade aims at providing additional information regarding the student's achievements in a specific subject. It is based on the rank of a student in a given assessment that is how he/she performed relative to other students in the same class (or in a significant group of students).

ECTS grade does not intend to replace the local grade but to provide qualitative information about the student's academic performance.

Having under consideration the good practices in the use of ECTS tools, Universidade do Minho issues to all exchange students (in the end of their study period) a Transcript of Records that includes the grades achieved in each course unit both in the national and the ECTS scales.

NATIONAL GRADING SYSTEM

10-13 Sufficient

14-15 Good

16-17 Good with distinction

18-19 Very Good with distinction

20 Very Good with distinction and honors

In the national grading system, the results are represented in a scale from 0 to 20, and the minimum mark required to approval is 10.

ECTS Grading Scale	% of Graduates	Grades
A	10	[16-20]
B	25	[14-15]
C	30	[13]
D	25	[12]
E	10	[10-11]

Academic Calendar

Period	UMinho	UPC	UNIPD	CTU
October-March (coursework)	X			
April-July (dissertation)	X	X	X	X

NATIONAL HOLIDAYS

January 1: New Year's Eve

February or early March: Carnival (a Western Christian festive season that occurs before the liturgical season of Lent)

Friday before Easter Sunday: Good Friday

March or April: Easter Sunday (Easter always occurs on the first Sunday after the Paschal Full Moon, i.e. the first full moon that occurs after the vernal equinox, which signifies the beginning of Spring in the Northern hemisphere)

April 25: Liberation Day

May 1: Labour Day

June 10: Portugal Day

August 15: Assumption of Mary

October 5: Implantation of the Republic

November 1: All Saints

December 1: Restoration of Independence

December 8: Feast of the Immaculate Conception

December 25: Christmas Day

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PORTUGUESE LANGUAGE COURSE

BabeliUM – Language Center of the University of Minho presents a diversified offer in the field of Portuguese as a Non-native Language (PLNM) – Portuguese as a Foreign Language (PLE) and Portuguese as a Second Language (PL2).

The following courses are available on a continuous and permanent basis:

Annual Course, divided into two independent semesters (October – January and February – May), thereby allowing the possibility of partial attendance.

Biannual Course, which takes place in Braga and Guimarães, divided into 2 semesters (October – December and March – May), thereby allowing the possibility of partial attendance.

The Annual Course has 14 hours per week x 15 weeks and takes place in Gualtar. It includes study visits and cultural activities along the two semesters.

The Biannual courses have 60 hours (6 hours per week). They are mainly directed to Erasmus students (although anyone can enroll) and take place in Gualtar and Azurém.

Fees apply.

Further information may be found here: <https://babelium.elach.uminho.pt/en/cursos/portugues-lingua-estrangeira/>

UNIVERSITY FACILITIES

LIBRARIES



The University of Minho has several libraries at the disposal of the academic community. The main university libraries are managed by the Documentation and Libraries Services. These are the General Library in the Gualtar Campus, the UMinho Library on Azurém Campus, the Library of Law, the Library Prof. Joaquim Pinto Machado, the Library Nuno Portas, the Library Fernão Mendes Pinto and the Library on the Couros campus. These libraries contain an important body of documents, covering all fields of knowledge. The libraries have over 700 reading and studying spaces, providing several services, such as loan of publications, interlibrary loan and document supply, support and training services.

Through the bibliographic catalogue it is possible to research the whole body of documentation in the libraries. In the Digital Library area, it is also possible to access digital documentation.

The main library in the Azurém campus is located in building 13 and offers its users a diverse bibliographical collection, specializing in the areas of: engineering, population history, geography and architecture.

Opening hours: From September 20th to October 1st: Monday to Friday, 9:00 am to 8:00 pm.

From October 4th and during the academic period: Monday to Friday, from 9:00 am to 24:00 pm.

Telephone: 253 510 118; ext. 510 118

E-mail: bpg@usdb.uminho.pt

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Foreign students are granted access to it after registration with USGA (Academic Services) when you are given an identification number. However, even without it, you may be able to access the library and consult the books in situ.

To seek out the book you are looking for is quite easy, since all documents are registered in a database you can check from one of the many computers at your disposal in the library. You can also have access to the database from outside the library through the Internet, at the following address: <http://www.sdum.uminho.pt>

If you want to take a book home you must have a student ID number. Books can be requested for a period of time that varies from 1 to 15 days, depending on the book you want. After that, you have to deliver it or make a new request. Do not forget to do so otherwise you will have to pay a fine.

You can also take copies of the books inside the library. To do that you must buy your own copier's card on the main floor of the library. Please note that this information can only be applied to the main libraries in each *campus*.

HEALTH FACILITIES

A Student Health Service, acting essentially as a preventive ambulatory observation service, is available, free of charge (within the school social action system) to displaced students, of 1st and 2nd cycle, in both *campi* of the University. Appointments should be made in advance in the respective *campi* (Gualtar or Azurém) at the "Centro Médico" (Health Care Centre) in Gualtar, Braga - Tel.253601490, or at the "Gabinete Médico" (Health Care Office) in Azurém, Guimarães - Tel.253510626.

Students failing to attend the medical consultation without previous notice will be charged a fee of 2,50 €.

The Medical Support also includes consultations of gynaecology specialty, currently available only in Gualtar Medical Center in Braga.

Psychological Attendance Consultations

The SASUM provide psychological follow-up consultations in Gualtar Medical Center and Azurém Medical Office.

The schedule of consultations, to practice during the school year, is published for the students, through the usual means, and may be subject to alteration according to the availability of the service providers.

Students have to make the payment of 20€.

Students who miss without notice to the psychological support will be charged a fee of 2.50€.

The appointment of medical consultation or psychological support may be made in the following ways:

In person at the desk in the Medical Center Gualtar in Braga and at the medical office in Azurém - Guimarães;

By phone

In Braga, through the number: 253601490

Guimaraes, through the number: 253 510626

By e-mail:

Consultations psychological support: psicologia@sas.uminho.pt

Consultations of medical support (Braga and Guimarães): enfermaria@sas.uminho.pt

It should always indicate where you want to query.

NURSING

This valence provides nursing care to the entire academic community, particularly those arising from accidents, performing routine medical exams and general measures of health promotion such as vaccination, health education, nutrition and rehabilitation.

Medical Center Infirmaries, at the "Centro Médico" in the Gualtar Campus is open from Monday to Friday, from 9h00 to 19h00.

In Guimarães, the Nursing Office at the "Gabinete Médico", in the Sports Facilities of Azurém, is open from Monday to Friday, from 10h00 to 13h00 and from 14h00 to 18h00.

Acts of nursing practiced have no cost to the user, when carried out under accident arising in UMinho.

In case of emergency, if you need to call an ambulance, the police or the fire department, you should dial the emergency number 112.

CANTEEN

There are canteens and snack bars in Braga and Guimarães. The cost of each meal in the canteens is around 2,70 €.

Timetable:

Guimarães

Canteen in Azurém: The timetable is (Monday to Friday):

Lunch: 12h00 – 14h00

Dinner: 19h00 – 20h30

The weekly menus may be found here:

<http://www.sas.uminho.pt/Default.aspx?tabid=10&pageid=26&lang=pt-PT>

Vegetarian options are available as well as take-away and vending machines for snacks.

Two main bars are available in the School of Engineering (Building 1 and 11).

TRANSPORT

There is also a bus service provided by UM, which runs daily at regular intervals, connecting the *Campus* of Gualtar and the *Campus* of Azurém. Each trip costs 1,40 €.

The tickets (single or in pack) can be acquired, from Monday to Friday, at Recurso Places in Braga and Guimarães or through the new Transports Digital Service offered by the Recurso app.

Following is the timetable of the buses connecting both *campi*, from Monday to Friday:

The up-to-date timetable may be found here: <https://aaum.pt/en/academy/transportation/>

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NOTE: During the month of September and in the examinations period, this timetable suffers changes.

SPORTS

University of Minho has high quality sports facilities, with two sports pavilions, located in both Campi of the university. Students have access to several sports, such as:

Braga and Guimarães: Aerobics, Pilates, Team Sport Activities (Handball, Volleyball, Basketball, Futsal, and others), Individual Sport Activities (Table Tennis, Tennis, Badminton, Chess, and others), Martial Arts and Combat Sports (Capoeira, Kickboxing, Taekwondo, several types of Karate, and others), Body Building and Fitness, Health and Wellness Activities and Swimming.

Prices are different depending on the sport you want. They offer competition and recreation activities. Just need to check the prices in any sport facility of University of Minho.

For more information or enrolment, you should go to the:

Sports Pavilion

<http://www.sas.uminho.pt/desporto>

E-mail: cvideira@sas.uminho.pt

Campus of Azurém

Pavilhão Desportivo Universitário

Rua de Francos, nº 935

Azurém

4800-042 Guimarães

Phone +351-253 510 620

STUDENTS UNION

The Students' Union of *Universidade do Minho* (AAUM) is run by students for students. This union which represents UM students, was created in 1977 to answer students' needs, in a fast growing University. It was the second students' union in the country to be considered a "public service institution".

With only 25 years old the Union has benefited from a structured development and it is, nowadays, one of the biggest in the country. There is one head office in Braga, and another in Guimarães. The Students' Union is divided in departments: cultural, administrative, software, recreation, sports, employment, among others, and all of them try to help students in a different way.

The AAUM continues to innovate and to create new activities. You can keep up with their activities here: <https://aaum.pt/academia/>

The Students' Union organises several events during the academic year. Besides the concerts, exhibitions, theatre and weekly cinema sessions, there are several student's music groups, two theatre groups, a modern dancing group, a folk dancing group, a choir, among other groups.

The Students' Union also organises the famous *Enterro da Gata* Festivities that last a whole week in May, during which there are some free days from classes. During this week, a parade is organised where all the courses are represented with characteristic vehicles, decorated by the students, according to a general theme for the festivities. These vehicles pass through the streets of Braga followed by the students, in order to show the population they have completed a year of studies.

Universidade do Minho's Radio (RUM) is an autonomous organism of the Students' Union, which broadcasts 24 hours a day. Students are free to make a programme in the radio, which can be considered as an "experimental" school for those who intend to give the first steps in this area.

ENTRY AND RESIDENCE REGULATIONS

When you have received the Formal Admission Letter from us, you can apply for a Visa at the relevant Portuguese Embassy/Consulate in your home country.

You have to visit the Consulate and complete the form there with the help of their personnel. In some countries, the application can be submitted by post.

There are different types of Student Visa that can be issued by the Consulate/Embassy but this will depend on the country you come from and on the duration of the course.

You have to submit the following documents for a stay over 90 days:

- 1 – Application Form (supplied by the Consulate) duly filled out and signed
- 2 - Two photographs
- 3 - Valid passport and photocopies of its relevant pages
- 4 - Documentary proof of Educational qualifications
- 5 - Proof of having been admitted to a course of study programme in a recognized University/Institute
- 6 - Proof of accommodation
- 7 - Proof of sufficient funds to cover all expenses during the stay in Portugal:
- 8 - Police Clearance Certificate
- 9 - Medical Certificate
- 10 - Medical Insurance (Minimum coverage 30.000/- Euros & minimum validity 6 months)

Upon arrival, foreign students, except EU countries' students, need to contact the Serviço de Estrangeiros e Fronteiras (The Portuguese Immigration and Borders Service), in order to report their study period at UM.

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Serviço de Estrangeiros e Fronteiras (The Portuguese Immigration and Borders Service)
Av. Norton de Matos, nº 26, 1º, 4700 - 387 Braga, Portugal
Phone: +351-25200940
gricrp.cc@sef.pt
<https://www.sef.pt>

Serviço de Estrangeiros e Fronteiras (The Foreigners' Services)
Loja do Cidadão, Rua dos Granjinhos, 6, 4710 - 352 Braga
Phone: +351-808241107
gricrp.cc@sef.pt
<https://www.sef.pt>

After your arrival in Portugal, students from Non-EU countries should request a residence permit at the *Serviço de Estrangeiros e Fronteiras*. To be given this permit you need to show your passport, a statement of financial support, a guarantee of health insurance and the Admission Letter issued by the SAHC consortium.

COMMUNICATION

Mobile operators in Portugal: how to get a SIM card

Portugal has a well-developed mobile network and an ever-growing list of operators. If you are relocating from a country that uses the GSM network, you will be able to use your mobile phone in Portugal without any problems. However, even if you are coming from somewhere that uses the alternative CDMA network, such as Japan, Canada, and certain networks in India and the US, then your smartphone may still be able to connect to the local Portuguese network. When moving to Portugal – even for a short-term stay – then you will probably want to buy a Portuguese SIM card or sign up with a local mobile operator. Getting a SIM card will probably be the cheapest option in terms of up-front costs. Some of these operators also offer home internet and TV packages, so it is a good idea to check if any bundle discounts are available.

Mobile operators in Portugal include:

MEO
Vodafone
NOS
WTF
Yorn

You may find more information online or check the shops of the main operators, situated in the city centre and in all the main shopping centres of Guimarães.

Post office

The Post Office in Guimarães is open from 09h00 to 13h30 and from 14h00 to 17h30 Monday to Friday. Many kiosks sell postage stamps. The cost of the stamps depends on the destination country:

National service: 0,54 €



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European countries: 2,90 €

Other countries: 3,10 €

USA: 3,30 €

- Post Offices

Rua Teixeira de Pascoais 307

4800- 999 Guimarães

Tel.: +351- 21 047 1616

Guimarães Shopping

Alameda Dr. Mariano Felgueiras

Lameiras, 306/-8

4810 Guimarães

Tel.: +351- 21 047 1616

Shipping Belongings

MRW

Rua de São Miguel, 56

4835-106 Guimarães

Phone: +351 253 516 608

Website: mrw.pt

GLS

Rua Arqueologo Mário Cardoso 454

4800-287 Guimarães

Phone: 707 200 607

Web site: gls-portugal.pt

FOOD

Shopping

Shopping in the centre of Guimarães is mostly concentrated around the area of the pedestrian streets, ranging from department stores to small shops. Most shops are open Monday to Friday from 09h00 to 13h00 and from 15h00 to 19h00, and on Saturdays from 09h00 to 13h00. Shops are, normally, closed on Sundays and on National Holidays, even though tourist shops may be open on Sundays. .

These opening hours are the average standard but there are some exceptions. Most grocery stores are open much longer and the major supermarkets are open Monday to Sunday from 8h00 to 23h00. You will find all the basic food and the day-to-day stuff cheaper in these main supermarkets.

Eating Habits

The local dishes are traditional recipes similar to those found in other places in the Minho region and include farm-raised chicken with rice, rojões (roast pork) or bucho recheado (pork tripe stuffed with pork cubes), papas de sarrabulho (shredded pork in gravy thickened with blood) and rice with sarrabulho, baked or stuffed cod, all accompanied by “green wine” (vinho verde) from the Minho

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region. Other traditional Portuguese dishes may be easily found, such as Francesinha (a multi-layered sandwich with an assortment of cured meats, steak, cheese and a sunny side up egg on top with plenty of secret sauce (each restaurant has its own recipe)).

Recipes for the traditional sweets of Guimarães were originated in local convents; the “heavenly fat” (*Toucinho do Céu*) is a dense cake which features shreds of cooked sweet pumpkin, and the Tortas de Guimarães are croissant-shaped pastries.

Breakfast, in Portugal, normally takes place between 07:00 a.m. and 10:00 a.m. and consists of milk and/or coffee and toast or bread. In Portugal coffee is normally “*espresso*” type, called “*café*”, in Portuguese or “*galão*”, a tall latte.

Lunch is usually a full meal, including soup, fish or meat and dessert, followed by coffee. Most people have lunch between 12:00 and 3:00 p.m. Around 5:00 p.m. most people have a light snack and a coffee or milk. Dinner is also a full meal, like lunch, served between 7:30 p.m. and 10:00 p.m.

Meals

There are a lot of places in Guimarães where you can stop for lunch or dinner. Just about every type of food is available. Since menus are usually posted outside restaurants (along with prices), you can decide if it is right for you before you go in.

Guimarães has expanded its culinary interests in the last decade and a series of international restaurants offering international dishes are now available at affordable prices (Japanese, Italian, Chinese, Indian, Brazilian, Northern American, Turkish, etc.).

There is a students’ canteen in University of Minho, where lunch is served for 2,70 € per meal. Other meals can be obtained in the various snack bars available throughout UM where full meals should not cost more than 6 €.

There are some fast food restaurants near UM as well as many low-priced restaurants. A meal will cost around 8-10€.

FINANCES

CURRENCY

In the year 2000, Portugal joined the Monetary Union and the Euro (€).

Coins: 0,01 €; 0,02 €; 0,05 €; 0,10 €; 0,20 €; 0,50 €; 1,00 €; 2,00 €

Bank-notes: 5 €; 10 €; 20 €; 50 €; 100 €; 200 €; 500€

Currency converter: <https://www.bportugal.pt/conversor-moeda>

Exchanging Money

The best place to exchange money is in the main banks (usually 8:00 – 15:00 Monday to Friday and Saturdays morning). The banks at the airport offer a reasonable rate, so change your money there.

Banks

In order to open a bank account, you are required to obtain a Portuguese Fiscal Number (NIF) from the local Tax Office. At the bank, they will also ask you to present a rental contract under your name and your passport. Otherwise, you will need a Fiscal Representative with a fixed Portuguese

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residence and a proof of residence from your home country, in English or in Portuguese. For a simpler solution, you may open an online account (e.g. Revolut, ActivoBank).

Credit Cards

MasterCard, Maestro and VISA are accepted in Portugal, but are not always welcome in small hotels, restaurants and shops. If you do get a Portuguese bank account, you may use the app MBWay, through which you can easily pay from your phone.

HEALTH AND WELFARE

In case of need for healthcare in a situation of temporary stay in Portugal (which includes movement of students), for a European citizen to access to providers of health care from the National Health Service it is essential the presentation of the European Health Insurance Card (EHIC), whose validity must cover the date of provision of the respective healthcare.

If you are not a EHIC holder at the time of provision of health care, you must quickly request for a EHIC Temporary Replacement Certificate to the Member State of residence, which should cover the period of healthcare and hand it over to the unit providing the care before returning home.

For citizens of third countries, in case of need for healthcare in a temporary stay in Portugal it is necessary the presentation of the entitlement document, whose validity must cover the date of the provision of healthcare. The entitlement document must be requested in the country of residence.

The presentation of the entitlement document will make possible the provision of the necessary healthcare, and the respective invoicing is presented to the country of residence for payment. This document will only be accepted in public units of the National Health Service.

In case the mentioned document is not presented at the time of provision of healthcare in a National Health Service unit, the patient will have to pay the cost the healthcare provided.

Please be aware that bilateral agreements do not include reimbursement, meaning that reimbursement is subject to the laws and procedures established in the country of residence.

All students benefit from a school insurance, which covers all accidents that occur at the University's facilities, outside the facilities (during formally organised curricular activities) and on the way to and back the university and the official residence.

Hospital

Nossa Senhora da Oliveira - Guimarães

Rua dos Cutileiros – Creixomil

4180-052 Guimarães

Phone: 253 540 330

Website: Hospitaldeguimaraes.min-saude.pt

Email: geral@hospitaldeguimaraes.min-saude.pt

Private practices

Cruz Verde

Alameda Dr. Alfredo Pimenta
4810-420 Guimarães
Phone: 253 514 812
Email: cruzverde@cruzverde.pt

Hospital da Luz

Alameda dos Desportos, Santiago de Candoso
4835-235 Guimarães
Phone: 253 420 300
Email: geral.guimaraes@hospitaldaluz.pt

Dentists

GUIMACLINIC BY GUIMADENT

Rua Teixeira de Pascoais 211, sala 9
4800-073 Guimarães
Phone: 253 035 510

CLÍNICA DE MEDICINA DENTÁRIA CONDE MARGARIDE

Av. Conde de Margaride 657
4835-073 Guimarães
Phone: 253 515 184

SMILE.UP CLÍNICAS DENTÁRIAS GUIMARÃES

Av. Conde de Margaride 765
4835-072 Guimarães
Phone: 253 149 620

Pharmacy

Pharmacies are open on weekdays from 09h00 to 13h00 and from 15h00 to 19h00, and on Saturdays during the morning. At night, lunch time and on weekends you can always find two or three pharmacies open. You can check their addresses at the door of any pharmacy (open or closed) or check online

FARMÁCIA AZURÉM

Rua da Pousada 40
4800-056 Guimarães
Phone: 253 518 576

FARMÁCIA PAULA MARTINS

Rua Teixeira de Pascoais 71
4800-073 Azurém, Guimarães
Phone: 253 415 833

FARMÁCIA DA PRAÇA

Rua Paio Galvão 24-26
4810-426 Guimarães
Phone: 253 523 167

FARMÁCIA VITÓRIA

Alameda Dr. Mariano Felgueiras 238
4835-039 Guimarães
Phone: 253 517 180

ACCOMMODATION

Guimarães is a city with an extensive supply of private accommodations. We can suggest some contacts for your convenience:

Manuel Ribalunga

manuelribalunga@gmail.com
+351 963 733 213

Remax Portugal

<https://www.remax.pt/>

Imovirtual.com

<https://www.imovirtual.com/>

Idealista

<https://www.idealista.pt/>

Temporary Accommodation

Youth Hostel

Complexo Multifuncional de Couros, Guimarães, 4810-430

Phone: 253 421 380

Email: guimaraes@movijovem.pt

Website: <https://hihostels.com/en/hostels/hi-guimar-es-pousada-de-juventude>

CULTURE

Museums

Palace of the Dukes of Bragança

(Paço dos Duques de Bragança)

The Paço dos Duques de Bragança, built in the 15th century by the then-future Duke Dom Afonso, shows elements of architectural styles common in the great manor houses and palaces of northern Europe. In the 19th century, it served as a military barracks. In the mid-20th century, after a period of disuse and abandonment, the palace was renovated and saw new life as a museum displaying items from the 17th and 18th centuries. From its various collections are pieces that document Portuguese contributions during the Age of Discoveries, while others narrate events in the Conquest of North Africa. Also in the holdings are a collection of arms from the 15th to the 19th centuries and furniture from the Post-Discoveries era.

In addition to the Palace's role as a museum, its top floor also serves as an official residence of the President of the Portuguese Republic whenever staying the north of the country.

Rua Conde D. Henrique

Phone: 253-412-273

Hours: 10:00-18:00

The Alberto Sampaio Museum

(Museu de Alberto Sampaio)

This museum was created in 1928 to house the collections of the Chapter House of N. S. da Oliveira and other churches and convents in the Guimarães region, including those items that were previously in the hands of the state. The Museum holds important collections of sculpture that covers the medieval period, the Renaissance and up to the 18th century in addition to paintings and works of silver.

Rua Alfredo Guimarães – Guimarães

Phone: 253-423-910

E-mail: masampaio@culturanoorte.gov.pt

Hours: 10:00-18:00

Closed on Mondays

The Martins Sarmiento Archaeological Museum

(Museu Arqueológico Martins Sarmiento)

The museum holds important collections on the pre-Roman Castreja culture as well as other archaeological items, sections on ancient sculpture, Latin inscriptions, pre- and proto-historic pieces and coins.

Rua Paio Galvão – Guimarães

Phone: 253-415-969

Hours: Tuesday-Friday: 9:30 a.m.–12:30 p.m./ 2:30 p.m.–5:30 p.m.; Saturday and Sunday: 10 a.m.-12:30 p.m./ 2:30-5:30 p.m.

Closed: Monday and public holidays

At night, you have several possibilities of amusement places. Besides the Students' Union Bar, where you can start your evening, you can also go to:

Cinema

Cinema São Mamede

Rua Doutor José Sampaio
4810-275 GUIMARÃES
Phone: 253412402
geral@sao-mamede.com
<http://www.sao-mamede.com/>

Cineclube de Guimarães

Largo da Misericórdia, nº 19 – 2º Apartado 221
4810 – 269 Guimarães
Phone: 253 514 239
info@cineclubeguimaraes.org
<http://cineclubeguimaraes.org/>

Castello Lopes Cinema - Guimarães Shopping

Lameiras, 306/-8
Al. Dr. Mariano Felgueiras
4810 - Guimarães
Phone: +351 - 253 520 170
Website: <https://castellolopescinemas.pt/guimaraeshopping/>

Pubs

Sala 141

Av. Dom Afonso Henriques 141
4810-431 Guimarães
Phone: 253 084 851
<https://www.instagram.com/sala141/?hl=en>

Pintado de Fresco

Praça de São Tiago 25, Guimarães
Phone: 963845581

YOLO

R. Cónego Dr. Manuel Faria 645
4800-073 Guimarães

Séc. XIX

Quinta da Bornaria
4800-076 Guimarães

You may find a large selection of restaurants and snack-bars in the main squares of São Tiago and Nossa Senhora da Oliveira, as well as Toural square and around the university campus. Price ranges and food options vary for all pockets and palates.

GENERAL INFORMATION

Cost of Living (in €)

Living expenses vary according to personal lifestyle and choice of housing. On average, 1000 € per month is required to face the basic expenses:

Expenses	Price in Euros
Accommodation	From 400€ up to 600€
Food	200€
Leisure	100€
University (books, etc)	100€

Useful Phone numbers

- National emergency number: 112
- CP (*Railways*): 808 109 110
- Câmara Municipal de Guimarães: 253 421 200
- International Affairs & Foreign Services: 213 946 000
- Tourist Information Office/Guimarães: 253 421 221
- Fire Department: 253 515 444

- Police:
 - PSP: 253 540 660
 - GNR: 253 422 570

Useful phrases

Hello	Olá
Good Morning	Bom dia
Good Afternoon	Boa tarde
Good evening/ Good night	Boa noite
See you later	Até logo
Good bye	Adeus
Sorry	Desculpa
How are you?	Como estás?
I'm fine, thanks.	Estou bem, obrigado
My name is ...	O meu nome é ...
What's your name?	Como te chamas?
Glad to meet you	Prazer em conhecê-lo
Hello? Who is speaking?	Estou sim? Quem fala?
This is ... speaking.	Daqui fala ...
Can you speak slower, please?	Pode falar mais devagar, por favor?

I don't understand.	Não percebo
I'm lost	Estou perdido
Where is UM?	Onde é a UM?
Where is it?	Onde fica?
How much is it?	Quanto custa?
I would like to buy.	Eu gostaria de comprar
May I get the receipt, please?	Podia dar-me a conta?
Do you accept credit card?	Aceita cartão de crédito?
I would like a coffee.	Queria um café.
Where is the Bathroom?	Onde é a casa de banho?
What time is it?	Que horas são?
Help! Police!	Socorro! Polícia!

Vocabulary	
Yes	Sim
No	Não
Open	Aberto
Closed	Fechado
Push	Empurrar
Pull	Puxar
University of Minho	Universidade do Minho
Train	Comboio
Railway Station	Estação de comboios
Ticket	Bilhete
Timetable	Horário
Bus	Autocarro
Bus stop	Paragem de autocarro
City Centre	Centro da cidade
Post Office	Correios
Pharmacy	Farmácia
Hospital	Hospital
Supermarket	Supermercado
Cinema	Cinema
Theatre	Teatro
Restaurant	Restaurante
Butchers	Talho
Canteen	Cantina
Library	Biblioteca
Book	Livro
Money	Dinheiro
Stamp	Selo
Food	Comida
Bread	Pão
Milk	Leite
Water	Água

Days of the week

Monday	Segunda-feira
Tuesday	Terça-feira
Wednesday	Quarta-feira
Thursday	Quinta-feira
Friday	Sexta-feira
Saturday	Sábado
Sunday	Domingo

Months of the Year

January	janeiro
February	fevereiro
March	março
April	abril
May	maio
June	junho
July	julho
August	agosto
September	setembro
October	outubro
November	novembro
December	dezembro

Numbers

One	Um
Two	Dois
Three	Três
Four	Quatro
Five	Cinco
Six	Seis
Seven	Sete
Eight	Oito
Nine	Nove
Ten	Dez
Eleven	Onze
Twelve	Doze
Thirteen	Treze
Fourteen	Catorze
Fifteen	Quinze
Sixteen	Dezasseis
Seventeen	Dezassete
Eighteen	Dezoito
Nineteen	Dezanove
Twenty	Vinte
Thirty	Trinta
Fourty	Quarenta

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Fifty	Cinquenta
Sixty	Sessenta
Seventy	Setenta
Eighty	Oitenta
Ninety	Noventa
One hundred	Cem
One thousand	Mil

THE PAÇO SHOP



The Paço Shop (<https://store.uminho.pt/en/paco-shop>) is the official shop of the University of Minho that was opened to the public on the 19th of September 2019. It is located on the eastern wing of Largo do Paço standing right next to the Rectory attached to the New Exhibitions Gallery. Created to reinforce the identity of the academic community and to raise the University's visibility, Paço Shop has two original merchandise lines on offer specially designed to provide the public with dozens of distinctive and useful products. The institutional line is inspired by the UMinho graphic identity, while the heritage line takes advantage of images of great cultural and aesthetic value coming from the University's vast heritage, giving it a greater visibility by turning them into everyday objects. The Paço Shop also sells books published by the Rectory and the Cultural Council, in addition to others that after February 2019 are part of the collections and series of UMinho Editora.

Attached to the official shop is a space that displays regional products and aims to contribute to the promotion of the territory and its singular arts and products, fulfilling the goal of reinforcing the University's interaction with society.

The online Paço Shop represents another contribution to expand the ways in which the University of Minho articulates itself with the academic community and society. It performs an important tool to promote the University's identity merchandise and the



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scientific and cultural production of its members resulting in books that are now on sale on the online shop, with a special highlight towards works of UMinho Editora.
You can check out the product catalogue here:

http://store.uminho.pt/uminhocontent/CatalogoLOJA_DO_PACO.pdf

SCIENTIFIC PRODUCTION OF SAHC CONSORTIUM

Historic Construction and Conservation Materials, Systems and Damage

By Pere Roca, Paulo B. Lourenço, Angelo Gaetani

<https://www.routledge.com/Historic-Construction-and-Conservation-Materials-Systems-and-Damage/Roca-Lourenco-Gaetani/p/book/9781032090238>

Finite Element Analysis for Building Assessment: Advanced Use and Practical Recommendations (in press)

By Paulo B. Lourenço, Angelo Gaetani

<https://www.routledge.com/Finite-Element-Analysis-for-Building-Assessment-Advanced-Use-and-Practical/Lourenco-Gaetani/p/book/9781032228396>