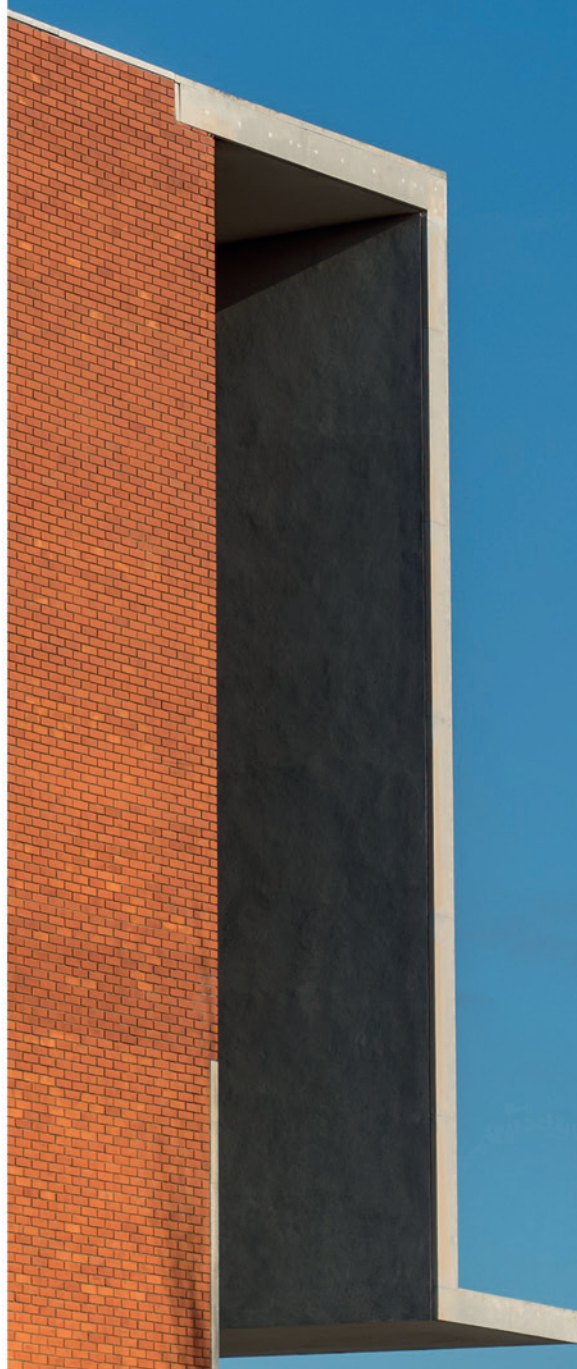


UNI VER SI TY OF AVEI RO



universidade de aveiro
theoria poiesis praxis





04

about the ua

06

aveiro and the region

08

teaching

10

courses

12

research

16

internationalisation



- 13,675 students
- 970 academic staff
- 503 researchers
- 1560 PhD students
- 28% international PhD students
- 59 nationalities of PhD students
- 630 admin and management staff
- 1,100 spaces for accommodation
- 6 refectories
- 150 hectares for innovation

title
University of Aveiro

publishing and property
University of Aveiro

production
Communication, Imaging and Public Relations
Services of the University of Aveiro

year 2020

about the ua

The University of Aveiro, with its well established reputation for innovation, high quality research, teaching and links to the business world, was set up in 1973. It is a pioneer in Portugal in courses in Telecommunications, Integrated teacher training, Ceramic Engineering, Environmental Engineering , Regional and Urban Planning, Management and Industrial Engineering, Tourism and Music.

With its special matrix structure and organization with the integration of teaching in the university and polytechnic subsystems, emphasis is given to both the interchange of ideas as well as a sense of harmony between teaching and research.

In just a few years, the University of Aveiro has begun to feature amongst the most highly placed institutions in the most important international Rankings that evaluate quality in Higher Education. In 2018, it was listed among the top 100 Higher Education Institutions in Europe. For example, in the Times Higher Education Europe Teaching Rankings it occupied position 51-75, with an A classification (very good) in 10 of the U-Multirank indicators.



Rankings

THE World University Rankings 2018	501-600
THE – Europe Teaching Rankings 2018	51-75
Times Higher Education Young University Rankings	101-150
U-Multirank	Performance A in10 indicators
CWUR – Center for World University Ranking 2018	551
ARWU – Academic Ranking of World Universities (Shanghai Ranking) 2018	401-500



aveiro and the region

Located in the central region of Portugal, Aveiro is the perfect combination of tradition, natural surroundings and modernity. Its main influence is the Aveiro lagoon, or estuary, which lends the city a unique characteristic, making it one of the hydrological wonders of the Portuguese coastal areas. With a population of around 77 thousand, Aveiro provides a safe and peaceful environment, together with the quality of life associated with a medium size town and is a delightful place to both live and work.

This region is bordered by the Atlantic on one side and mountainous areas on the other and is well known for its entrepreneurial spirit and thriving and diversified economy based on the manufacturing industry. The small and medium-size companies that make up the business and industrial fabric of the region are particularly strong in the areas of ceramics, metal working, electronics and industrial chemistry.

In recent years an increase has been noticed in the more traditional economic areas such as tourism and the use of natural resources. Its prime location in a modern and lively coastal area, together with its excellent resources, make Aveiro an important Iberian port.



16 university departaments

- biology
- chemistry
- civil engineering
- communication and art
- economics, management, industrial engineering and tourism
- education and psychology
- electronics, telecommunications and informatics
- environment and planning
- geosciences
- languages and cultures
- materials and ceramic engineering
- mathematics
- mechanical engineering
- medical sciences
- physics
- social, political and territorial sciences



teaching

The institution offers courses in all scientific fields. This can be seen in the vast array of courses currently available in both universities and polytechnics in Engineering, Sciences, Arts and Humanities, Social Sciences and Health. These include 51 Undergraduate Degrees, 11 Integrated Master's Degrees, 66 Masters and 48 Ph.D programmes. Besides these there are non-degree courses, two advanced training courses and 14 higher level professional and technical courses (CT and SP). With regard to the CT and SP courses,

which are run in the polytechnics, while not being degree-level, candidates are awarded level 5 in the National Qualifications Framework, which is recognised at the European level.

If someone is not a citizen of Portugal or the European Union they can still apply to the UA by means of a Special Entrance Competition. More than a two hundred students have already taken advantage of this opportunity to study in Aveiro!

Courses

1ST CYCLE AND INTEGRATED MASTER

- Accounting
- Accounting (distance Learning)
- Accounting evening
- Basic Education
- Biochemistry
- Biology
- Biology and Geology
- Biomedical Engineering integrated master
- Biomedical Sciences
- Biotechnology
- Built Heritage Conservation
- Chemical Engineering integrated master
- Chemistry
- Civil Engineering integrated master
- Computational Engineering integrated master
- Computer and Telematics Engineering integrated master
- Design
- Economics
- Electronic and Telecommunications Engineering integrated master
- Electrotechnical Engineering
- Environmental Engineering integrated master
- Finance
- Finance evening
- Geology
- Industrial Automation Engineering
- Industrial Electronics and Mechanics
- Industrial Engineering and Management integrated master
- Informatics Engineering
- Information Technologies
- Languages and Business Relations
- Languages and Publishing
- Languages, Literatures and Cultures
- Management
- Management and Planning in Tourism
- Manufacturing Systems and Technology
- Marine Sciences
- Marketing
- Marketing evening
- Materials Engineering integrated master
- Mathematics
- Mechanical Engineering integrated master
- Medical Imaging and Radiotherapy
- Meteorology, Oceanography and Geophysics
- Music
- New Communication Technologies
- Nursing
- Office Management and Business Communication
- Physics
- Physics Engineering integrated master
- Physiotherapy
- Product Design and Technology
- Psychology
- Public Administration
- Public Management
- Quality Management
- Retail Management
- Speech Therapy
- Translation
- Applied Gerontology
- Applied Informatics
- Applied Marine Biology
- Biochemistry
- Biology and Geology Teacher Education - 3rd Cycle of Basic Schooling and Secondary Schooling
- Biomedical Materials and Devices (taught in English)
- Biotechnology
- Built Heritage Conservation
- Chemistry (taught in English)
- Chinese Studies
- Clinical Research Management
- Contemporary Artistic Creation
- Cybersecurity
- Design
- Digital Marketing and Communication
- Economics
- Ecotoxicology and Risk Analysis
- Education and Professional Development
- Environmental Studies (taught in English)
- Finance
- Geoinformatics
- Geological Engineering
- Geomaterials and Geological Resources
- Health Psychology and Neuropsychological Rehabilitation
- Industrial Automation Engineering
- Informatics Engineering
- Languages and Business Relations
- Languages, Literatures and Cultures
- Management
- Marine and Atmospheric Sciences
- Marketing
- Mathematics and Applications

MASTER DEGREES

- Accounting
- Accounting and Management Control
- Additive Manufacturing
- Applied Biology
- Applied Ecology

- Mathematics for Teachers
- Mathematics Teacher Education - 3rd Cycle of Basic Schooling and Secondary Schooling
- Medical Imaging Technologies
- Medical Statistics
- Microbiology
- Molecular and Cell Biology
- Molecular Biomedicine
- Multimedia Communication
- Music
- Music Education
- Nursing in Family Health
- Physics (taught in English)
- Physiotherapy
- Political Science
- Portuguese as a foreign Language/ Second Language
- Primary School Education and Mathematics and Natural Sciences in 2nd Cycle
- Primary School Education and Portuguese and History and Geography of Portugal in 2nd Cycle
- Product Design and Engineering
- Public Accounting
- Public Administration and Management
- Publishing
- Regional and Urban Planning
- Retail Management
- Robotics and Intelligent Systems
- Specialised Translation
- Speech Therapy
- Sustainable Energy Systems
- Teacher Education - Pre-school education and 1st cycle of basic schooling
- Teaching of English and Foreign Language (German/Spanish/French) in Basic and Secondary Education
- Teaching of English in Primary School
- Teaching of Portuguese and Foreign Language (German/Spanish/French) in Basic and Secondary Education
- Total Quality Management
- Tourism Management and Planning
- Welding Engineering

DOCTORAL PROGRAMMES

- Accounting
- Advanced Materials and Processing
- Applied Mathematics
- Biochemistry
- Biology (taught in English)
- Biology and Ecology of Global Changes (taught in English)
- Biomedicine
- Biorefineries
- Biotechnology
- Business and Economics
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Engineering (taught in English)
- Computer Science (taught in English)
- Cultural Studies
- Design
- Education
- Electrical Engineering (taught in English)
- Energy Systems and Climate Change
- Environmental Sciences and Engineering (taught in English)
- E-Planning
- Food Science and Technology and Nutrition
- Geosciences
- Gerontology and Geriatrics
- History of Sciences and Scientific Education
- Industrial Engineering and Management
- Information and Communication in Digital Platforms
- Language Sciences
- Literary Studies
- Marine Science, Technology and Management
- Marine Sciences
- Marketing and Strategy (taught in English)
- Materials Science and Engineering (taught in English)
- Mathematics
- Mathematics and Applications
- Mechanical Engineering
- Multimedia in Education
- Music
- Nanosciences and Nanotechnology
- Physical Engineering
- Physics (taught in English)
- Political Science
- Psychology
- Public Policies
- Refining, Petrochemical and Chemical Engineering
- Rehabilitation Sciences
- Science and Technology of Polymers
- Sustainable Chemistry
- Telecommunications (taught in English)
- Territory, Risk and Public Policies
- Tourism
- Translation and Terminology

research

Top level research is one of the defining features of the UA, and this has given rise to its reputation as a 'Research University'. Continuing commitment in diverse scientific areas has promoted a close cooperation and integration of several different disciplines, including Engineering, Natural Sciences, Arts and Humanities, Economics and Management, Life Sciences and Health, as well as informatics.

Research in the pioneering areas of emerging global and social importance has highlighted the necessity of a strategy that is geared towards a truly interdisciplinary method of research. Researchers, Ph.D and post-doc students as well as scholarship fellows of the highest level, specialising in a wide range of disciplines and scientific fields, work on this campus, a campus that is made up of university departments, research centres, polytechnics and interface units.

This type of integrated structure favours the articulation and harmonisation of the different environments of teaching and research. Similarly, it makes it possible to be involved in innovative activities towards the dissemination of scientific knowledge and lifelong learning. All this reflects the UA's commitment to quality and allows its hundreds of researchers, post-doc and scholarship research fellows complete access to laboratories with state-of-the-art equipment.

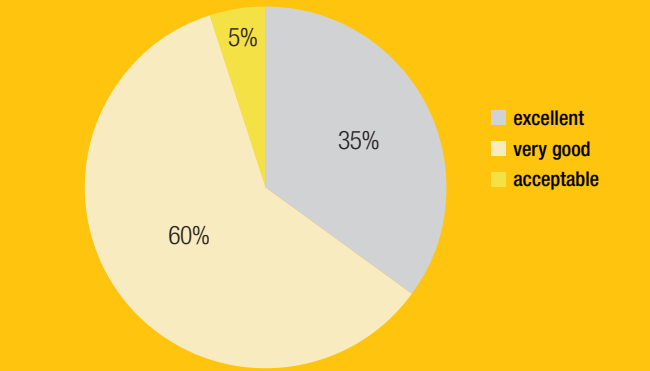


20 research units

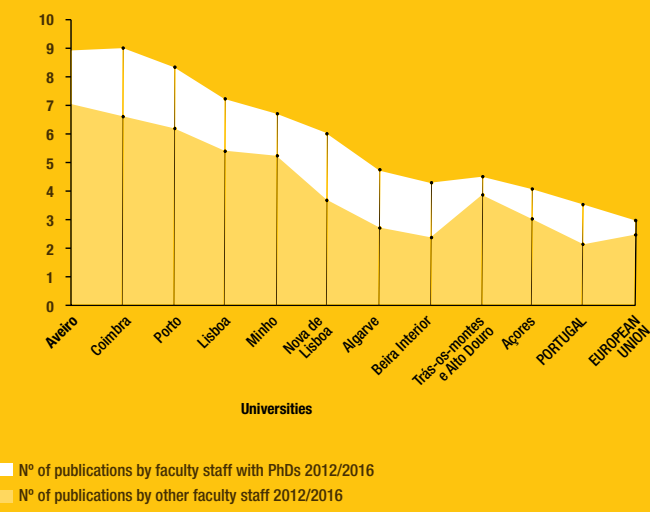
Most of the 20 research units are interdepartmental, four of which have the status of Associated Laboratories and 83,3% received the classification Very Good or Excellent.

- CESAM – Centre for the Studies of the Environment and the Sea
- CICECO – Aveiro Institute of Materials
- I3N-FSCOSD – Institute de Nano-structures, Nano-modelling and Nano-fabrication
- IT –Telecommunications Institute
- iBiMED – Aveiro Biomedical Institute
- CIDTFF – Centre for Didactic and Technology Research in Teacher Training
- CIDMA – Centre for Research and Development in Mathematics and its Applications
- CINTESIS – Centre for Research in Health Technologies and Services
- CIPES – Centre for Research in Higher Education Policies
- CLLC – Centre for Languages, Literatures and Cultures
- DigiMedia – research Centre in Digital Media and Interaction
- GEOBIOTEC – Geo-biosciences, Geo-technologies and Geo-engineering
- GOVCOPP – Research Unit for Governance, Competitiveness and Public Policies
- ID+ – Research Institute of Design, Media and Culture
- IEETA – Aveiro Institute of Electronic Engineering and Informatics
- INET-MD – Institute of Ethno-Musicology – Centre for the Studies of Music and Dance
- REQUIMTE – Associated Laboratory for Green Chemistry – Clean Technologies and Processes
- RISCO – Centre for Research in Risk and Sustainability in Construction
- TEMA – Centre for Mechanical Technology and Automation
- WJCR – William James Center for Research

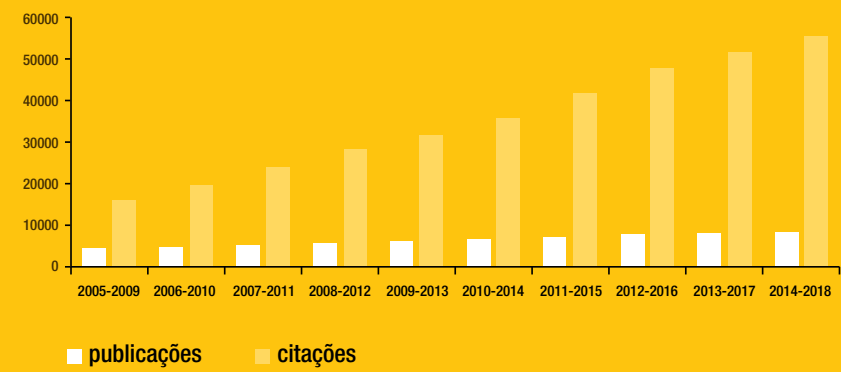
Evaluation by international juries – research units (FCT, 2018)



UA Scientific Production (publications) compared with all universities in Portugal



All UA Publications and citations



research

Projects (July 2018)

national projects	364
european/international projects	103
co-ordenation of european/international projects	13
ERC – European Research Council	3

Research at the UA is carried out in ten fields of the ESI (Essential Science Indicators – Web of Science). The projects that stand out are the ones involving international partnerships, covered by H2020, such as *Teaming (a regenerative medicine and precision project, which is the result of a partnership between the universities of Minho, Porto, Lisbon, Nova de Lisboa and University College London) and Twinning (developing chemical methods of precision applied to natural base systems with the intention of developing multifunctional biomedical devices, in collaboration with the Univ. Minho, École Polytechnique Fédérale de Lausanne, University of Warwick and Kaist).*

In partnership with some prestigious companies in the national economy the UA has created 5 Guest Chairs:

- Economy of the Sea › Caixa Geral de Depósitos
- Telecommunications › Nokia-Siemens
- Neurosciences › Fundação Ilídio Pinho
- Trade › Grupo Jerónimo Martins
- Bio-refinery / bio-economy › Navigator Company

Sci Papers

TOP 10 SUBJECT AREAS FOR PAPERS PUBLISHED IN 2017	RECORD COUNT	% OF 2143
Environmental Sciences	268	12.51%
Materials Science Multidisciplinary	169	7.89%
Engineering Electrical Electronic	124	5.79%
Chemistry Physical	117	5.46%
Chemistry Multidisciplinary	98	4.57%
Physics Applied	96	4.48%
Telecommunications	78	3.64%
Mathematics Applied	71	3.31%
Optics	71	3.31%
Education Educational Research	70	3.27%

Data retrieved from Web of Science (Clarivate Analytics) in 3 June 2019

APPROVED BUDGET UNDER EU-FUNDED PROJECTS*

EUROPEAN PROGRAMMES	2017	2018
H2020 – ERC POC		150.000
H2020 – TEAMING	1.001.138	
H2020 – FETOPEN		508.060
H2020 – ITN-ETN	1.133.425	
H2020 – RISE	207.000	167.900
H2020 – IF	356.395	297.271
H2020 – NMBP	188.876	449.971
H2020 – ICT	321.250	1.439.375
H2020 – SC6		198.751
H2020 – SCC	484.900	
H2020 – SPIRE	246.655	
H2020 – BG	597.816	
H2020 – CIRC	419.823	418.414
H2020 – SAWFS		246.000
H2020 – JTI – IMI		626.250
ERASMUS +	368.987	387.849
LIFE+		301.182
INTERREG SUDOE		520.036
INTERREG ATLANTIC AREA	826.759	
URBAN INNOVATIVE ACTIONS		1.920.460
EMFF	267.607	
RFSC	39.691	
TOTAL	6.460.323	7.631.519

* in Euros

DISTRIBUTION OF RECEIVED FUNDS, BY FUNDING AGENCY*



* Contracts with industry and multiannual budget of research centres not included



international- isation



85

nationalities on the campuses

Whether it be through the creation of knowledge in collaboration with overseas partners; or by means of a policy of alliances and identification of geographical areas where collaboration is a priority; or the recruitment of talented staff at International level; or the promotion of events or reinforcement of its presence in trans-national organisations, the UA's international focus has been the distinguishing feature right from the outset.

In the academic year 2017/18, 283 *outgoing* students seized the mobility opportunity offered by the UA to continue their studies in another national or overseas higher education institution. 622 *incoming* students came to Aveiro to continue their studies under the various agreements, and with specific programmes or with free mobility. Research too has benefitted from this spirit of cross-border cooperation. The UA aims to be a first-class establishment for research and to have a leading role in the area of European research, and to this end it has been increasing its participation as a key player in several networks, forums and international consortiums.

The UA has always strived to develop a close relationship with countries which share historical and cultural links with Portugal and which have Portuguese as the official language, seeking to find a relevant role in their development.

Angola, Brazil, Cape Verde, Guinea- Bissau, Mozambique, São Tomé and Príncipe, Timor and even Goa (India) are countries where the UA has been more and more involved in projects concerning education and research, the promotion of science, law, as well as, more generally, in technical assistance towards programmes geared to training for development.

As a means of allowing its students to enjoy a unique experience during their course or as part of their vocational integration, the UA participates in several exchange programmes such as Erasmus + the Santander Totta University programmes, as well as many mobility programmes in individual partnership institutions. Joint courses are also run in conjunction with a network of international universities, such as Carnegie Mellon Portugal (CMU Portugal) and the European Consortium of Innovative Universities.

2018

18

- 27 international projects started
- 33 countries involved
- 505 partnerships with overseas universities in 59 countries

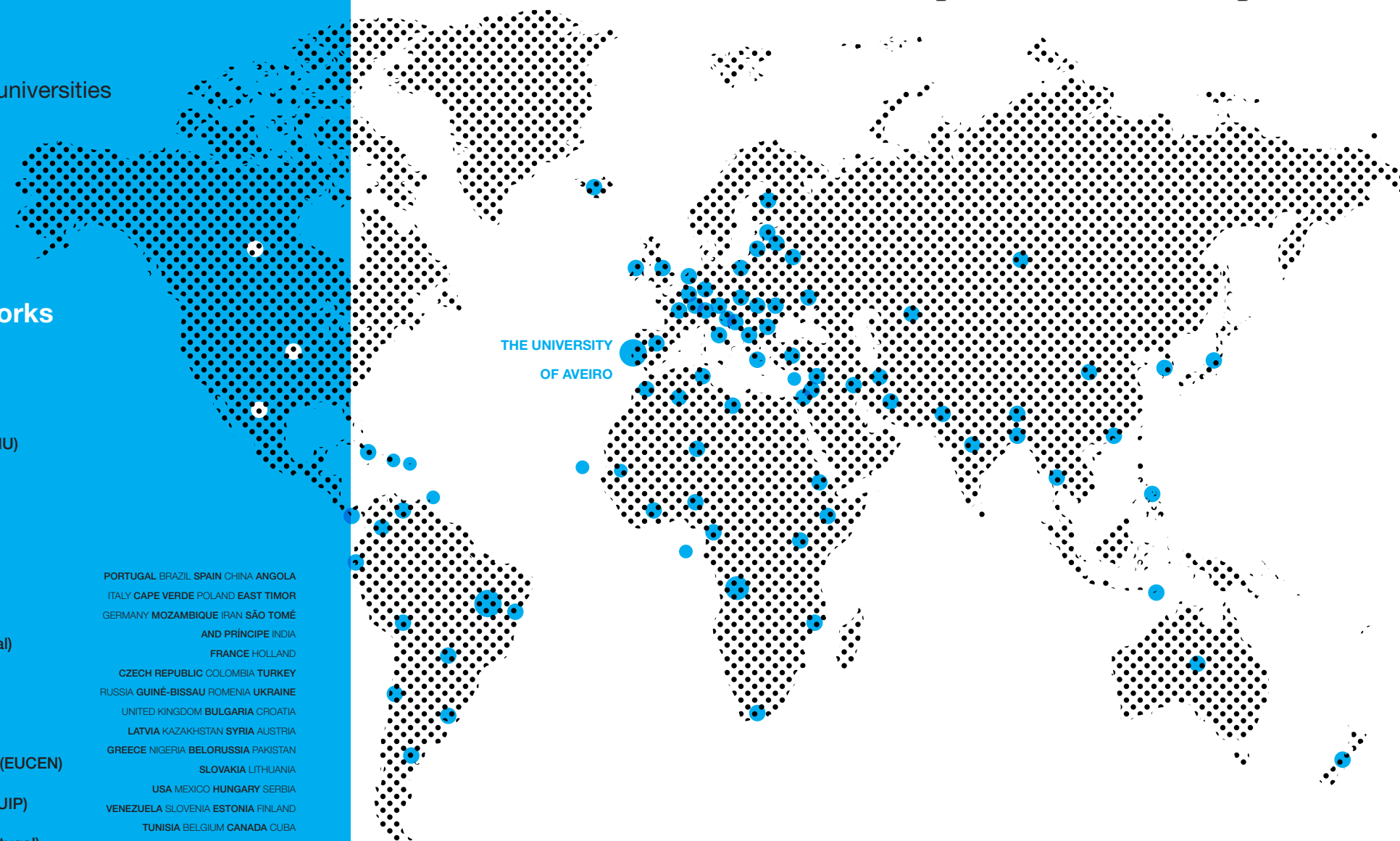
International partnership networks and forums

- European Consortium of Innovative Universities (ECIU)
- European University Association (EUA)
- Universia
- Columbus Torino Association
- Tordesillas Group
- Carnegie Mellon Portugal Programme (CMU Portugal)
- Association of Universities using Portuguese AULP
- Campus of the Sea
- European University Continuing Education Network (EUCEN)
- Ibero-American Post-grad University Association (AUIP)
- University Technology Enterprise Network (Uten Portugal)
- Ibero-American Association CTS of Education in Science
- Networld2020 European Technology Platform
- IEEE MTT-20 Wireless Communication
- European Association of Urban Policies

PORTUGAL BRAZIL SPAIN CHINA ANGOLA
ITALY CAPE VERDE POLAND EAST TIMOR
GERMANY MOZAMBIQUE IRAN SÃO TOMÉ
AND PRÍNCIPE INDIA
FRANCE HOLLAND
CZECH REPUBLIC COLOMBIA TURKEY
RUSSIA GUINÉ-BISSAU ROMENIA UKRAINE
UNITED KINGDOM BULGARIA CROATIA
LATVIA KAZAKHSTAN SYRIA AUSTRIA
GREECE NIGERIA BELORUSSIA PAKISTAN
SLOVAKIA LITHUANIA
USA MEXICO HUNGARY SERBIA
VENEZUELA SLOVENIA ESTONIA FINLAND
TUNISIA BELGIUM CANADA CUBA
ECUADOR ALGERIA CHILE
SOUTH KOREA COSTA RICA IRAQ IRELAND
ICELAND LIBYA MOROCCO NEW ZEALAND
SWITZERLAND URUGUAY AFGHANISTAN
SOUTH AFRICA ARGENTINA AUSTRALIA
BANGLADESH BOLIVIA BOSNIA AND
HERZEGOVINA BURUNDI BUTAN CYPRUS
IVORY COAST ERITREA ETHIOPIA
PHILIPPINES EQUATORIAL GUINEA BRITISH
VIRGIN ISLANDS ISRAEL JAPAN LEBANON
MACAU MONTENEGRO NIGER PARAGUAY
PORTO RICO DOMINICAN REPUBLIC
SALVADOR THAILAND TRINIDAD AND
TOBAGO

19

Out of the UA's 14 thousand students and 1400 teachers and researchers, 85 countries from all continents are represented on its campuses.



The Confucius Institute

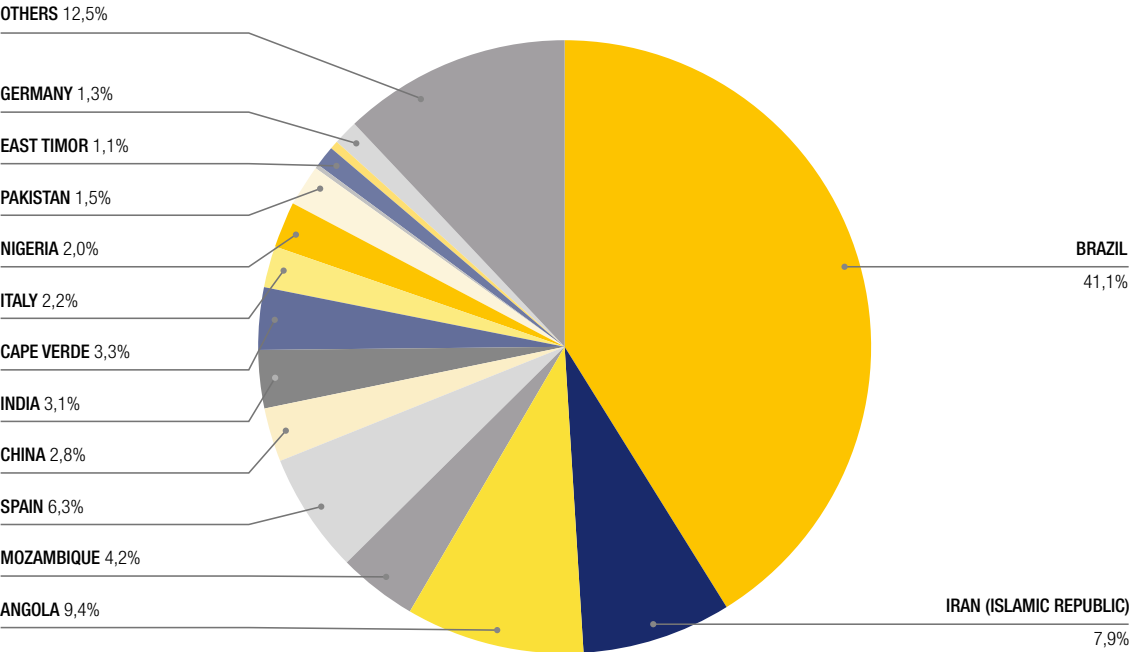
Opened in 2015, the UA's Confucius Institute supports and promotes the teaching of Chinese and its culture in Portugal and offers a range of specific Chinese language courses and preparation courses, with a flexible timetable, for the HSK exams (test of proficiency in Chinese) and YCT exams. It further promotes the teaching of Mandarin in several Primary and Secondary schools, in partnership with the municipalities.

American Corner

Housed in the UA Library, the American Corner is a documentation centre which has at its disposal a vast array of monographs touching on a broad range of contemporary issues in the fields of politics, economics, and culture, for instance, as well as diverse literature about the USA. By means of eLibraryUSA, students, teachers and researchers can access whole texts, catalogues, statistics, treaties, legal information and contents of a more general nature.

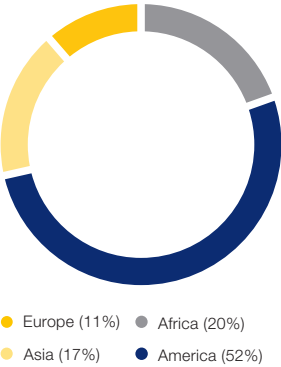
The UA also provides a number of Portuguese language courses to overseas students and researchers so that they can take full advantage of their experience of studying, researching and living in Portugal. Besides allowing them to learn or improve their knowledge of the language, they are also given the opportunity to get to know something of the culture of the country.

FOREIGN PhD STUDENTS BY NATIONALITY
Last 3 years

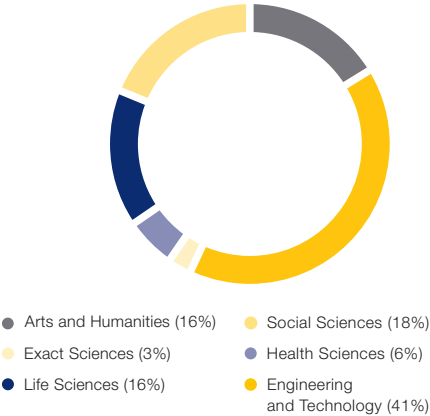


MSc and PhD theses

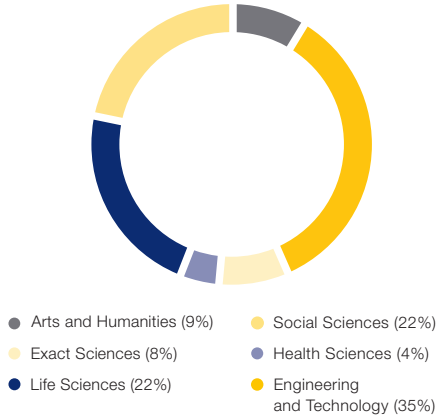
FOREIGN PhD STUDENTS BY CONTINENT



MSc THESES IN 2018 PER AREA



PhD THESES IN 2018 PER AREA



People

RESEARCHERS BY DEPARTMENT / SCHOOL

DEPARTMENT	TOTAL	RESEARCHERS (FTE)		
		TOTAL	PERCENTAGE OF WOMEN	PERCENTAGE OF FOREIGNERS
UNIVERSITY	2017	2018		
Department of Biology	90	97	69%	15%
Department of Chemistry	130,5	134	60%	22%
Department of Civil Engineering	3	2	100%	
Department of Communication and Art	8	16	44%	31%
Department of Economics, Management, Industrial Engineering and Tourism	3	2	50%	
Department of Education and Psychology	19	13	92%	
Department of Electronics, Telecommunications and Informatics	24	23	39%	26%
Department of Environment and Planning	33	37	65%	30%
Department of Geosciences	9	5	60%	
Department of Medical Sciences	11	12	67%	8%
Department of Materials and Ceramics Engineering	37,3	38	37%	39%
Department of Mathematics	7	6	50%	33%
Department of Mechanical Engineering	32,4	28	39%	54%
Department of Physics	75	72	28%	38%
Department of Social Sciences, Political and Territorial Sciences	19	17	65%	18%
School of Design, Management and Production Technologies	2	1	100%	100%
TOTAL	503,2	503	55%	26%

PhD STUDENTS BY DEPARTMENT

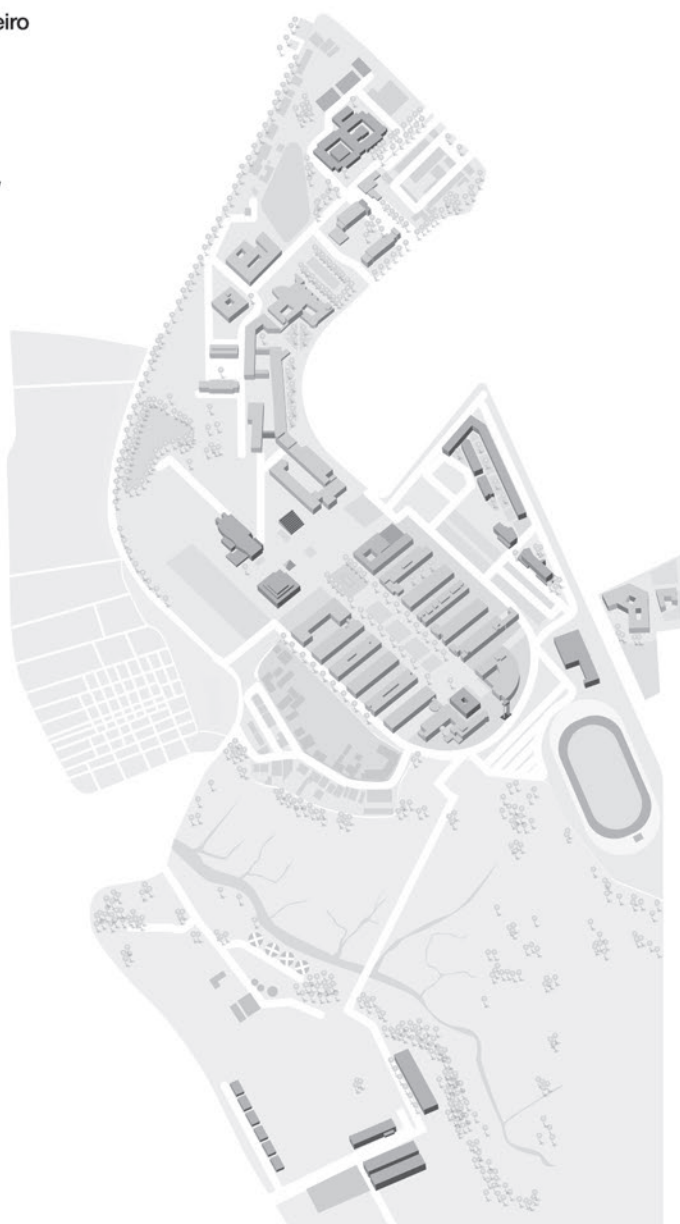
UNIVERSITY	PhD STUDENTS			
	TOTAL	PERCENTAGE OF WOMEN	PERCENTAGE OF FOREIGNERS	PERCENTAGE OF NEW STUDENTS
DEPARTMENT	2018/2019			
Department of Biology	135	63%	31%	17%
Department of Chemistry	218	69%	13%	40%
Department of Civil Engineering	56	21%	54%	46%
Department of Communication and Art	236	50%	51%	30%
Department of Economics, Management, Industrial Engineering and Tourism	246	46%	48%	39%
Department of Education and Psychology	238	73%	41%	24%
Department of Electronics, Telecommunications and Informatics	115	22%	32%	28%
Department of Environment and Planning	73	45%	44%	30%
Department of Geosciences	9	67%	44%	11%
Department of Languages and Cultures	55	58%	44%	69%
Department of Materials and Ceramics Engineering	82	43%	37%	32%
Department of Mathematics	30	57%	33%	53%
Department of Mechanical Engineering	65	42%	29%	51%
Department of Medical Sciences	59	71%	3%	39%
Department of Physics	86	47%	16%	34%
Department of Social Sciences, Political and Territorial Sciences	85	33%	58%	40%
TOTAL*	1560	53%	37%	34%

* The students of joint doctoral studies are considered in each participating department. Therefore, the students count by department is superior to the total.



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“UA: The university
of people”



ESAN



ESTGA

UNIVERSITY CAMPUS OF SANTIAGO

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INTERNATIONAL

www.ua.pt/en/international-study-in-portugal

PROJECT



COFOUNDING

