

# UNI VER SI TY OF AVEI RO



universidade de aveiro  
theoria poiesis praxis







- 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** 2019

# 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*

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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 both a delightful place to 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, its 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.

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## 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 the 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!***



# research



**20** *research units*

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 areas, frequent and work on this campus, which comprises university departments, research centres, polytechnics and interface units.

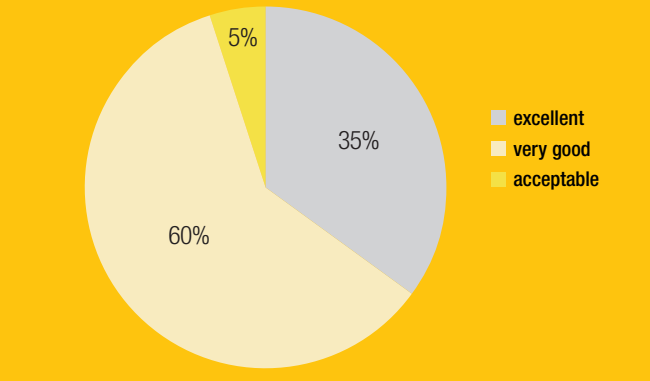
This type of integrated structure favours the articulation and harmonisation of the different environments of teaching and research. Similarly it allows being involved in innovative activities with regard to the spread of scientific knowledge and continuous learning. All this reflects the UA's commitment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

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 or Excellent.

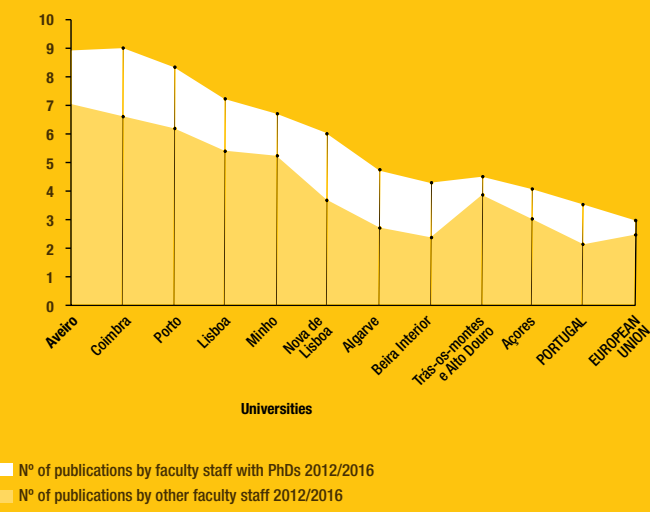
- CESAM – Centre for the Studies of the Environment and the Sea
- CICECO – Aveiro Institute of Materials
- I3N-FSCOSD – Institute de Nano-structures, Nano-modelling and Nano-fabrication
- IT –Telecommunications Institute
- iBiMED – Aveiro Biomedical Institute
- CIDTFF – Centre for Didactic and Technology 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



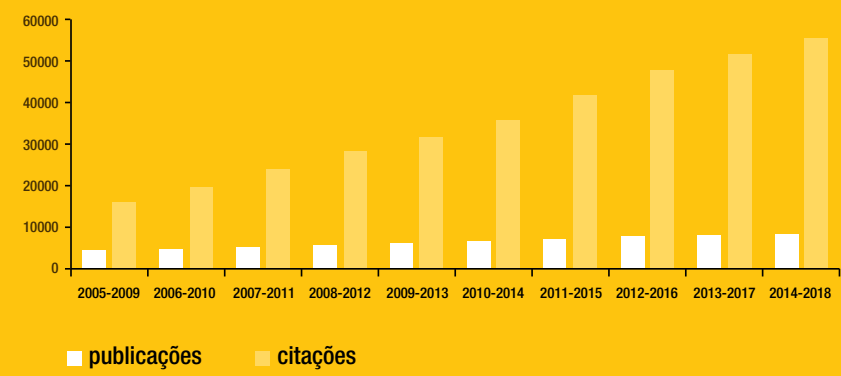
Evaluation by international juries – research units (FCT, 2018)



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 students *Outgoing* seized the mobility opportunity offered by the UA to continue their studies in another national or overseas higher education institution. 622 students *Incoming* 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), the European University Foundation (EUF) and the European Consortium of Innovative Universities.*

2018

- 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 Europae
- 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

THE UNIVERSITY  
OF AVEIRO

### 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

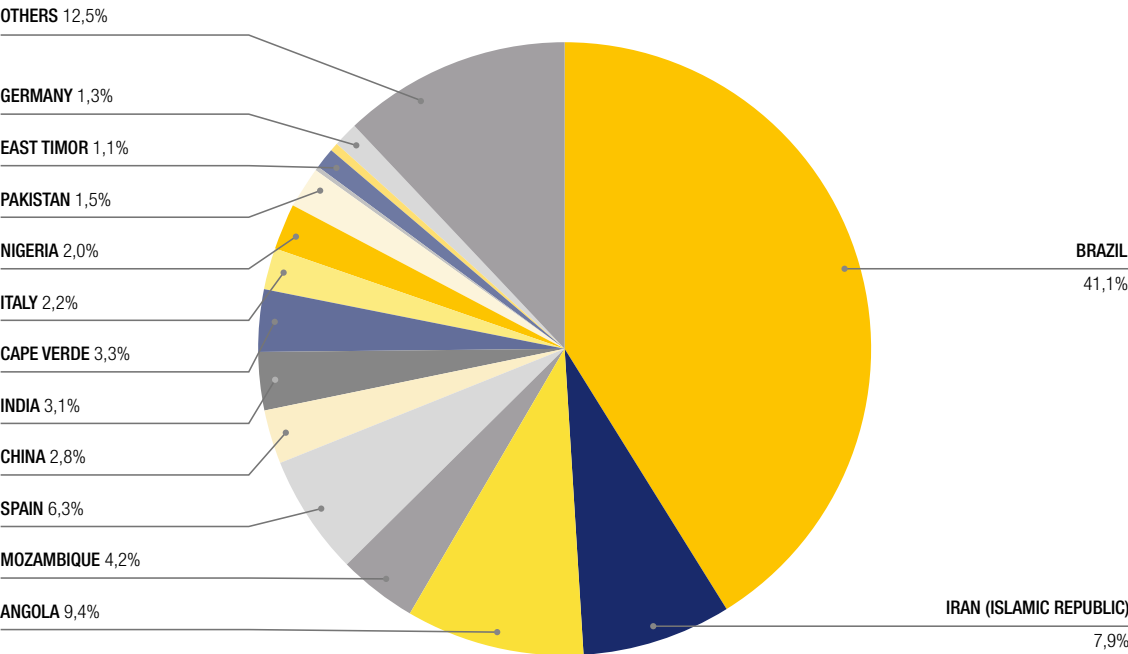
Housed in the UA Library, the American Corner is a documentation centre which has at its disposal a vast array of monographs touching on a broad range of contemporary issues in the fields of politics, economics, and culture, for instance, as well as diverse literature about the USA. By means of eLibraryUSA, 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.

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

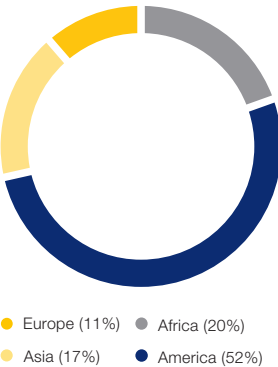


FOREIGN PhD STUDENTS BY NATIONALITY  
Last 3 years

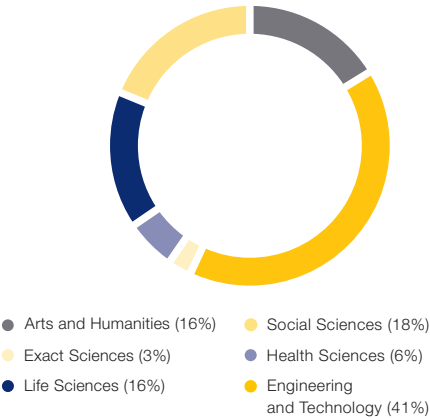


MSc and PhD theses

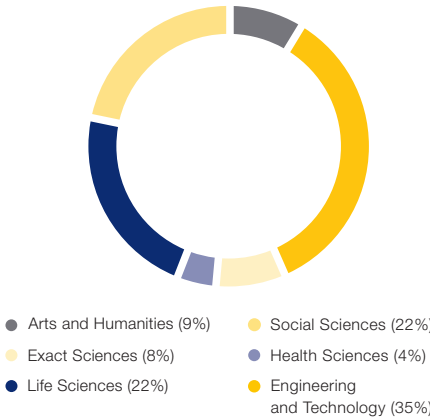
FOREIGN PhD STUDENTS  
BY CONTINENT



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.



master degrees

Accounting
Accounting and Management Control
Applied Biology
Applied Ecology
Applied Gerontology
Applied Informatics
Applied Marine Biology
Biochemistry
Biology and Geology Teacher Education – 3 <sup>rd</sup> Cycle of Basic Schooling and Secondary Schooling
Biomedical Engineering (integrated master)
Biomedical Materials and Devices (taught in English)
Biotechnology
Built Heritage Conservation
Chemical Engineering (integrated master)
Chemistry (taught in English)
Chinese Studies
Civil Engineering (integrated master)
Clinical Research Management
Computational Engineering (integrated master)
Computer and Telematics Engineering (integrated master)
Contemporary Artistic Creation
Design
Economics
Ecotoxicology and Risk Analysis
Education and Professional Development
Electronic and Telecommunications Engineering (integrated master)
Environmental Engineering (integrated master)
Environmental Studies (taught in English)
Finance
Geological Engineering
Geomaterials and Geological Resources
Health Psychology and Neuropsychological Rehabilitation
Industrial Automation Engineering
Industrial Engineering and Management (integrated master)
Informatics Engineering
Languages and Business Relations
Management
Marine and Atmospheric Sciences
Marketing
Materials Engineering (integrated master)
Mathematics and Applications
Mathematics for Teachers

Mathematics Teacher Education – 3 <sup>rd</sup> Cycle of Basic Schooling and Secondary Schooling
Mechanical Engineering (integrated master)
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)
Physics Engineering (integrated master)
Physiotherapy
Political Science
Portuguese as a Foreign Language/Second Language
Primary School Education and Mathematics and Natural Sciences in 2 <sup>nd</sup> Cycle
Primary School Education and Portuguese and History and Geography of Portugal in 2 <sup>nd</sup> Cycle
Product Design and Engineering
Public Administration and Management
Publishing
Regional and Urban Planning
Retail Management
Specialised Translation
Speech Therapy
Sustainable Energy Systems
Teacher Education – Pre-school Education and 1 <sup>st</sup> 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
Tourism Management and Planning

doctoral programmes

Accounting
Advanced Materials and Processing * (UNL/UL/UC/UP/UM/UBI)
Applied Mathematics * (UP/UM)
Biochemistry
Biology (taught in English)
Biology and Ecology of Global Changes * (UL) (taught in English)
Biomedicine * (UNL)
Biorefineries * (UC)
Biotechnology
Business and Economics
Chemical Engineering
Chemistry
Civil Engineering
Computer Engineering (taught in English)
Computer Science * (UBI/UM) (taught in English)
Cultural Studies
Design * (UP)
Education
Electrical Engineering (taught in English)
Energy Systems and Climate Change
Environmental Sciences and Engineering (taught in English)
Food Science and Technology and Nutrition * (UCP/UM)
Geosciences * (UP)
Gerontology and Geriatrics * (UP)
History of Sciences and Scientific Education * (UC)
Industrial Engineering and Management
Information and Communication in Digital Platforms * (UP)
Language Sciences
Literary Studies
Marine Science, Technology and Management * (UM/UTAD)
Marketing and Strategy (taught in English)
Materials Science and Engineering (taught in English)
Mathematics
Mechanical Engineering
Multimedia in Education
Music
Nanosciences and Nanotechnology (taught in English)
Physical Engineering
Physics * (UP/UM) (taught in English)
Political Science * (UBI)
Psychology
Public Policies
Refining, Petrochemical and Chemical Engineering * (UNL/UC/UP/IST)

Rehabilitation Sciences
Science and Technology of Polymers * (UC/UP)
Sustainable Chemistry * (UNL/UP)
Telecommunications * (UP/UM) (taught in English)
Territory, Risk and Public Policies * (UC/UL)
Tourism
Translation and Terminology * (UNL)

\* Together with another university(ies)

**UC** – Universidade de Coimbra  
**UL** – Universidade de Lisboa  
**UM** – Universidade do Minho  
**UP** – Universidade do Porto  
**UBI** – Universidade da Beira Interior  
**UNL** – Universidade Nova de Lisboa  
**IST** – Instituto Superior Técnico



## *open museum of contemporary Portuguese art and architecture*

This is probably the only place on earth where one can see at one glance two architectural works, both rewarded with Pritzker prizes. However, the UA Library and the Water Tank, both designed by Siza Vieira, and the Department of Geo-Sciences, designed by Souto Moura, are just three of the 60 buildings on campus, which, conceived by some of the most prestigious national architects, represent an authentic Open Museum of Contemporary Portuguese Architecture .

Besides these two buildings, which are located not far from the water and which are bathed in the natural light from the estuary, almost two dozen sculptures and murals scattered around the campus, the work of several national and foreign artists, leave a lasting impression in the hearts of thousands of people who each year visit the university.

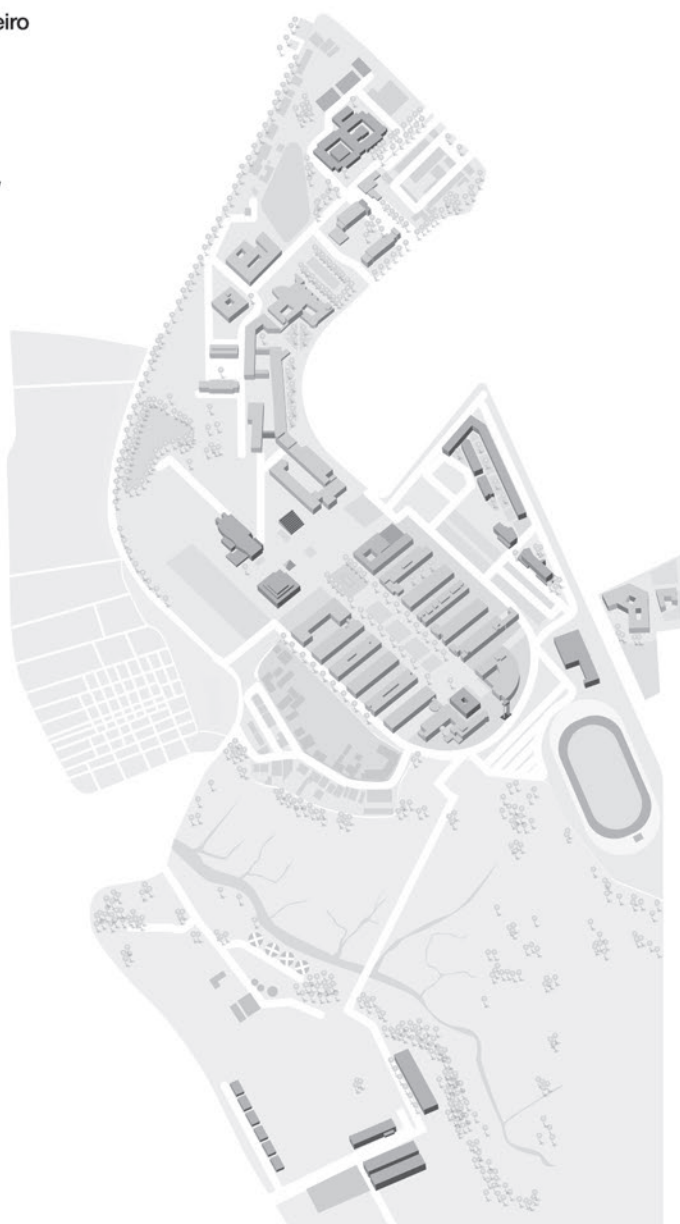






universidade de aveiro  
theoria poiesis praxis

“UA: The university  
of people”



ESAN



ESTGA

UNIVERSITY CAMPUS OF SANTIAGO

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PROJECT



COFOUNDING

