# A Universidade do Porto no ShanghaiRanking's Global Ranking of Academic Subjects (GRAS) 2018

Universidade do Porto. Reitoria.
Gabinete de estudos estratégicos e melhoria contínua
20 de julho de 2018

## Sumário

1. Metodologia do ShanghaiRanking's Global Ranking of Academic Subjects 2018 ..... 3
2. Evolução da Universidade do Porto no ShanghaiRanking's Global Ranking of Academic Subjects ..... 9
3. As Universidades portuguesas no ShanghaiRanking's Global Ranking of Academic Subjects 2018 ..... 13
3.1 NATURAL SCIENCES ..... 13
3.1.1 Mathematics ..... 13
3.1.2 Physics ..... 14
3.1.3 Chemistry ..... 15
3.1.4 Earth Sciences ..... 16
3.1.5 Geography ..... 17
3.1.6 Ecology ..... 17
3.1.7 Oceanography ..... 18
3.1.8 Atmospheric Science ..... 19
3.2 ENGINEERING ..... 20
3.2.1 Mechanical Engineering ..... 20
3.2.2 Electrical & Electronic Engineering ..... 21
3.2.3 Automation & Control ..... 22
3.2.4 Telecommunication Engineering ..... 23
3.2.5 Instruments Science & Technology ..... 24
3.2.6 Biomedical Engineering ..... 25
3.2.7 Computer Science & Engineering ..... 26
3.2.8 Civil Engineering ..... 27
3.2.9 Chemical Engineering ..... 28
3.2.10 Materials Science & Engineering ..... 29
3.2.11 Nanoscience & Nanotechnology ..... 30
3.2.12 Energy Science & Engineering ..... 31
3.2.13 Environmental Science & Engineering ..... 32
3.2.14 Water Resources ..... 33
3.2.15 Food Science & Technology ..... 33
3.2.16 Biotechnology ..... 34
3.2.17 Aerospace Engineering ..... 34

3.2.18 Marine/Ocean Engineering....35
3.2.19 Transportation Science & Technology....35
3.2.20 Remote Sensing....36
3.2.21 Mining & Mineral Engineering....36
3.2.22 Metallurgical Engineering....36
3.3 LIFE SCIENCES....37
3.3.1 Biological Science....37
3.3.2 Human Biological Sciences....38
3.3.3 Agricultural Sciences....39
3.3.4 Veterinary Sciences....40
3.4 MEDICAL SCIENCES....41
3.4.1 Clinical Medicine....41
3.4.2 Public Health....42
3.4.3 Dentistry & Oral Sciences....42
3.4.4 Nursing....43
3.4.5 Medical Technology....43
3.4.6 Pharmacy & Pharmaceutical Sciences....44
3.5 SOCIAL SCIENCES....45
3.5.1 Economics....45
3.5.2 Statistics....46
3.5.3 Law....46
3.5.4 Political Sciences....47
3.5.5 Sociology....47
3.5.6 Education....48
3.5.7 Communication....49
3.5.8 Psychology....50
3.5.9 Business Administration....51
3.5.10 Finance....51
3.5.11 Management....52
3.5.12 Public Administration....52
3.5.13 Hospitality & Tourism Management....53
3.5.14 Library & Information Science....53
3.6 RESUMO....54
4. Anexos....55
4.1 Mapping between Web of Science categories and 54 academic subjects....55
4.2 ShanghaiRanking Academic Excellence Survey 2018 Top Journals & Conferences....59
4.3 ShanghaiRanking Academic Excellence Survey 2018 Top Award....63

# A Universidade do Porto no ShanghaiRanking's Global Ranking of Academic Subjects (GRAS) 2018

http://www.shanghairanking.com/Shanghairanking-Subject-Rankings/index.html

## 1. Metodologia do ShanghaiRanking's Global Ranking of Academic Subjects 2018

"**Methodology for ShanghaiRanking's Global Ranking of Academic Subjects 2018**

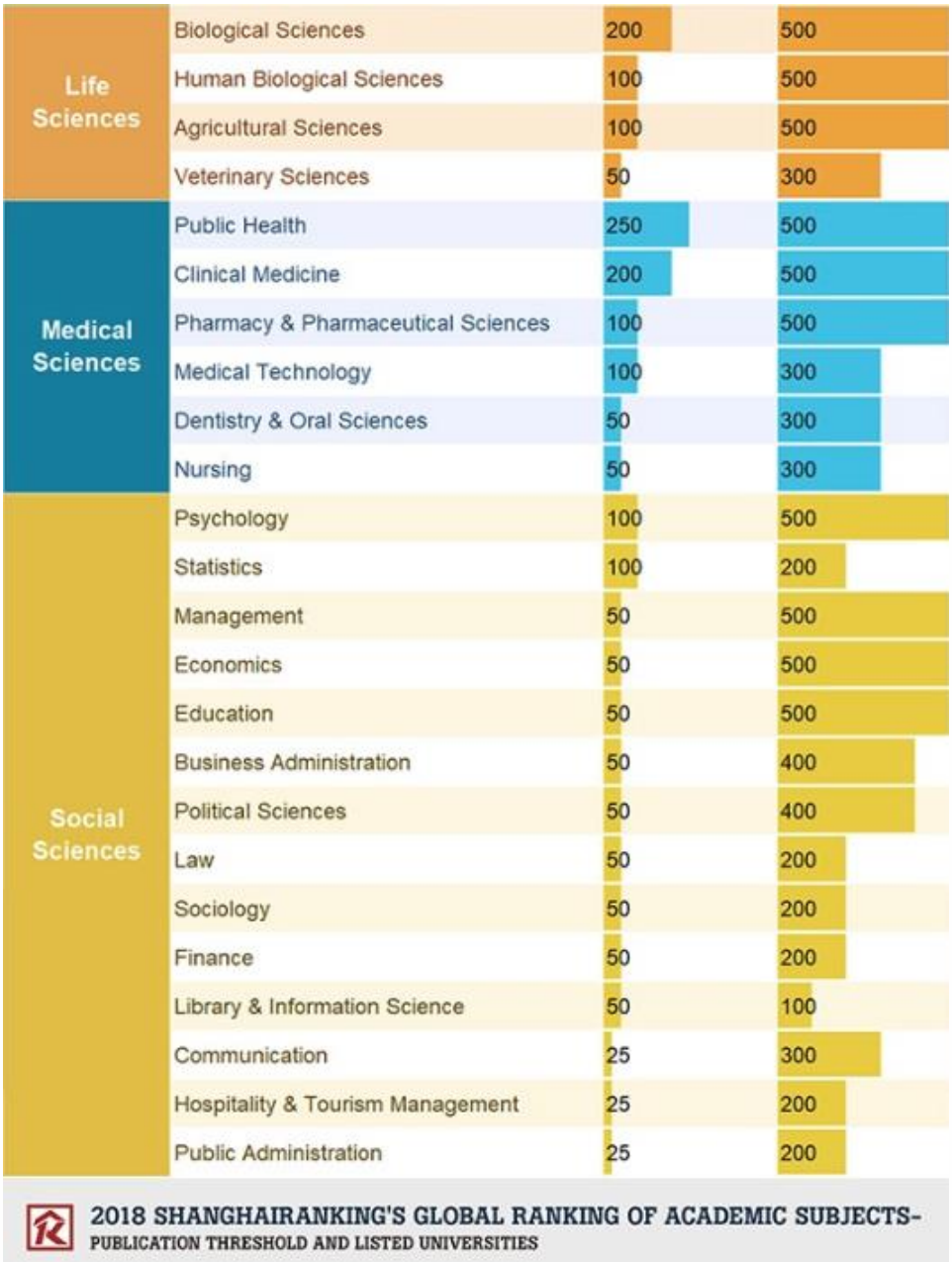
**Ranking Subjects**

In 2018 Global Ranking of Academic Subjects, institutions are ranked in 54 subjects across Natural Sciences, Engineering, Life Sciences, Medical Sciences, and Social Sciences.

## Selection of Universities

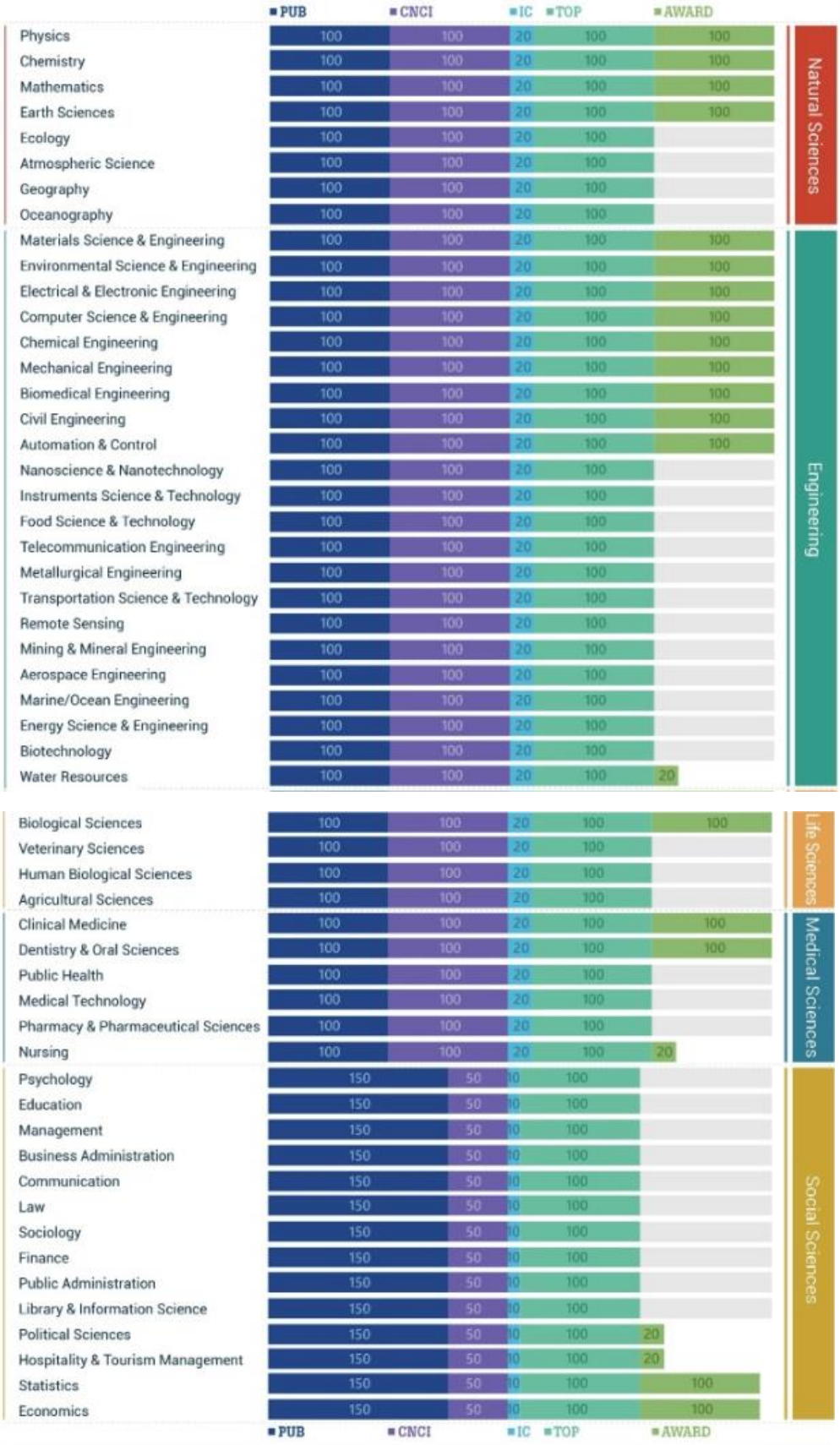
To be included in a subject ranking, the universities need to have a minimum number of research publications during the period of 2012-2016. The publication threshold is different for different subjects. Bibliometric data are collected from Web of Science and InCites. Web of Science categories are mapped to 54 academic subjects. Details can be found **here**. [ver Anexo **4.1 Mapping between Web of Science categories and 54 academic subjects**]

| Fields | Subjects | Publication Threshold | Listed Universities |
|---|---|---|---|
| Natural Sciences | Physics | 300 | 500 |
| | Chemistry | 200 | 500 |
| | Mathematics | 100 | 500 |
| | Earth Sciences | 100 | 500 |
| | Ecology | 100 | 400 |
| | Geography | 100 | 200 |
| | Atmospheric Science | 50 | 400 |
| | Oceanography | 50 | 200 |
| Engineering | Materials Science & Engineering | 200 | 500 |
| | Environmental Science & Engineering | 200 | 500 |
| | Computer Science & Engineering | 150 | 500 |
| | Electrical & Electronic Engineering | 150 | 500 |
| | Nanoscience & Nanotechnology | 150 | 400 |
| | Energy Science & Engineering | 100 | 500 |
| | Biotechnology | 100 | 500 |
| | Chemical Engineering | 100 | 500 |
| | Mechanical Engineering | 100 | 300 |
| | Food Science & Technology | 100 | 300 |
| | Biomedical Engineering | 100 | 300 |
| | Civil Engineering | 100 | 300 |
| | Instruments Science & Technology | 100 | 300 |
| | Telecommunication Engineering | 100 | 200 |
| | Water Resources | 100 | 200 |
| | Metallurgical Engineering | 100 | 200 |
| | Automation & Control | 100 | 200 |
| | Transportation Science & Technology | 50 | 200 |
| | Remote Sensing | 50 | 100 |
| | Aerospace Engineering | 50 | 50 |
| | Marine/Ocean Engineering | 50 | 50 |
| | Mining & Mineral Engineering | 25 | 100 |




**Indicators and Weights**

Different weights are allocated to the indicators for different subjects, as listed below. For each indicator, institutions are calculated as a percentage of the top scored institution, then the square root of the percentage is multiplied by the allocated weight. A final score is arrived by adding scores for all indicators and the final score is ranked in descending order.




**2018 SHANGHAIRANKING'S GLOBAL RANKING OF ACADEMIC SUBJECTS--INDICATORS AND WEIGHTS**

## Definition of Indicators

| Indicators | Definition |
|---|---|
| PUB | PUB is the number of papers authored by an institution in an Academic Subject during the period of 2012-2016. Only papers of 'Article' type are considered. Data are collected from Web of Science and InCites. Papers in different Web of Science categories are grouped into relevant Academic Subjects (**Classification of Web of Science Categories into Academic Subjects**). |
| CNCI | Category Normalized Citation Impact (CNCI) is the ratio of citation of papers published by an institution in an Academic Subject during the period of 2012-2016 to the average citations of papers in the same category, of the same year and same type. A CNCI value of 1 represents world-average performance while a value above 1 represents performance above the world average. Only papers of 'Article' type are considered. Data are collected from InCites database. |
| IC | International collaboration (IC) is the number of publications that have been found with at least two different countries in addresses of the authors divided by the total number of publications in an Academic Subject for an institution during the period of 2012-2016. Only papers of 'Article' type are considered. Data are collected from InCites database. |
| TOP | TOP is the number of papers published in Top Journals in an Academic Subject for an institution during the period of 2012-2016. Top Journals are identified through ShanghaiRanking's Academic Excellence Survey or by Journal Impact Factor. In 2018, 123 top journals selected by the Survey are used in rankings of 41 Academic Subjects. In Computer Science & Engineering, 14 selected top conferences are also taken into account this year. The list of the top journals and conferences can be found **here**. [Ver Anexo **4.2 ShanghaiRanking Academic Excellence Survey 2018 Top Journals & Conferences**] For Academic Subjects that do not have journals identified by the Survey, the JCR top 20% journals are used. Top 20% journals are defined as their Journal Impact Factors in the top 20% of each Web of Science category according to Journal Citation Report (JCR) 2016, and then aggregated into different Academic Subjects. Only papers of 'Article' type are considered. |
| AWARD | AWARD refers to the total number of the staff of an institution wining a significant award in an Academic Subject since 1981. Staff is defined as those who work full-time at an institution at the time of winning the prize. If a researcher retired at the time of winning the award, we count the institution where the researcher's last full-time academic position was at. The significant awards in each subject are identified through **ShanghaiRanking's Academic Excellence Survey**. The list of the significant awards in each subject can be viewed **here.** [Ver Anexo **4.3 ShanghaiRanking Academic Excellence Survey 2018 Top Award**]<br>If a winner is affiliated with more than one institution at the time of winning the award, each institution is assigned the reciprocal of the number of institutions. If the award is awarded to more than one winner in one year, weights are set for winners according to their proportion of the prize. Different weights are set according to the periods of winning the prizes. The weight is 100% for winners in 2011-2016, 75% for winners in 2001-2010, 50% for winners in 1991-2000, and 25% for winners in 1981-1990. |

## Data Sources

| Indicators | Sources |
|---|---|
| PUB | InCites database https://incites.thomsonreuters.com/#/analytics |
| CNCI | InCites database https://incites.thomsonreuters.com/#/analytics |
| IC | InCites database https://incites.thomsonreuters.com/#/analytics |
| TOP | InCites database https://incites.thomsonreuters.com/#/analytics |
| AWARD | Fields Medal<br>http://www.mathunion.org/general/prizes/fields/details/ |
| | The Abel Prize<br>http://www.abelprize.no/ |
| | Nobel Prize in Physics<br>http://www.nobelprize.org/nobel_prizes/ |
| | Nobel Prize in Chemistry<br>http://www.nobelprize.org/nobel_prizes/ |
| | Priestley Medal<br>http://www.acs.org/content/acs/en/funding-and-awards/awards/national/bytopic/priestley-medal.html |

| Indicators | Sources |
|---|---|
| | Wolf Prize in Chemistry<br>http://www.wolffund.org.il/index.php?dir=site&page=content&sub=p&cs=3052 |
| | Crafoord Prize in Geosciences<br>http://www.crafoordprize.se/ |
| | Timoshenko Medal<br>https://www.asme.org/about-asme/get-involved/honors- awards/achievement-awards/timoshenko-medal |
| | ASME Medal<br>https://www.asme.org/about-asme/get-involved/honors-awards/achievement-awards/asme-medal |
| | IEEE Medal of Honor<br>http://www.ieee.org/about/awards/medals/medalofhonor.html |
| | IEEE Control Systems Award<br>https://www.ieee.org/about/awards/tfas/controlsys.html |
| | Pritzker Distinguished Lectureship Award<br>http://www.bmes.org/awards#Pritzker Distinguished Lecture Award |
| | A.M. Turing Award<br>http://amturing.acm.org/ |
| | International Award of Merit in Structural Engineering<br>http://www.iabse.org/IABSE/IABSE_Association/Awards/Award_of_Merit/IABSE/association/Award_files/International_Award_of_Merit_in_Structural_Engineering/Merit.aspx?hkey=4e67443b-411c-4a37-9e42-0c99b434d5f1 |
| | Andreas Acrivos Award for Professional Progress in Chemical Engineering<br>https://www.aiche.org/community/awards/andreas-acrivos-award- professional-progress-chemical-engineering |
| | MRS Medal Award<br>http://www.mrs.org/medal/ |
| | Von Hippel Award<br>http://www.mrs.org/vonhippel/ |
| | Stockholm Water Prize<br>http://www.siwi.org/prizes/stockholmwaterprize/ |
| | Robert E. Horton Medal<br>https://honors.agu.org/medals-awards/robert-e-horton-award/ |
| | Nobel Prize in Physiology or Medicine<br>http://www.nobelprize.org/nobel_prizes/ |
| | Lasker~DeBakey Clinical Medical Research Award<br>http://www.laskerfoundation.org/awards/#name=&award=Clinical&year= |
| | IADR Distinguished Scientist Award<br>http://www.iadr.org/IADR/Awards/Grants-Awards/Distinguished- Scientist |
| | Nurse Researcher Hall of Fame<br>https://www.sigmanursing.org/advance-elevate/awards/nurse-researcher-awards |
| | The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel<br>http://www.nobelprize.org/nobel_prizes/ |
| | COPSS Presidents' Award<br>http://community.amstat.org/copss/home |
| | The Johan Skytte Prize in Political Science<br>http://www.skytteprize.com/ |
| | Ulysses Prize<br>http://know.unwto.org/content/unwto-ulysses-prize-excellence-creation-and-dissemination-knowledge |

“ [1]

[1] *In* http://www.shanghairanking.com/Shanghairanking-Subject-Rankings/Methodology-for-ShanghaiRanking-Global-Ranking-of-Academic-Subjects-2018.html acedido 17 de julho de 2018.

## 2. Evolução[2] da Universidade do Porto no ShanghaiRanking's Global Ranking of Academic Subjects

Evolução das posições

| | 2017 | | | | 2018 | | | |
|---|---|---|---|---|---|---|---|---|
| | **World rank** | **Euro rank** | **IbAm rank** | **PT rank** | **World rank** | **Euro rank** | **IbAm rank** | **PT rank** |
| **NATURAL SCIENCES** | | | | | | | | |
| Mathematics | 401-500 | 188-231 | 29-35 | 4 | n/c | | | |
| Physics | 401-500 | 187-224 | 31-39 | 4-5 | 401-500 | 187-223 | 31-38 | 4-5 |
| Chemistry | 201-300 | 72-122 | 7-17 | 1-3 | 301-400 | 118-167 | 16-21 | 3-4 |
| Earth Sciences | n/c | | | | n/c | | | |
| Geography | n/c | | | | n/c | | | |
| Ecology | 101-150 | 42-70 | 3-6 | 1-2 | 101-150 | 49-72 | 3-6 | 1-2 |
| Oceanography (novo 2018) | | | | | 151-200 | 66-82 | 11-20 | 4-5 |
| Atmospheric Science (novo 2018) | | | | | 301-400 | 138-164 | 17-23 | 3-4 |
| **ENGINEERING** | | | | | | | | |
| Mechanical Engineering | 151-200 | 51-67 | 3-6 | 2 | 151-200 | 46-59 | 4-7 | 2 |
| Electrical & Electronic Engineering | 201-300 | 67-104 | 10-18 | 3 | 301-400 | 94-129 | 15-27 | 3-4 |
| Automation & Control | n/c | | | | 101-150 | 34-45 | 6-9 | 2-3 |
| Telecommunication Engineering | n/c | | | | n/c | | | |
| Instruments Science & Technology | 151-200 | 61-81 | 13-18 | 3 | 151-200 | 53-74 | 11-17 | 3 |
| Biomedical Engineering | 151-200 | 51-70 | 4-6 | 2 | 101-150 | 27-47 | 1-3 | 1-2 |
| Computer Science & Engineering | 101-150 | 33-50 | 6-9 | 2 | 401-500 | 151-198 | 23-32 | 4-6 |
| Civil Engineering | 201-300 | 56-93 | 11-17 | 5-6 | 101-150 | 22-38 | 6-8 | 4 |
| Chemical Engineering | 29 | 7 | 1 | 1 | 41 | 7 | 1 | 1 |
| Materials Science & Engineering | 201-300 | 69-120 | 5-10 | 1-3 | 201-300 | 67-112 | 4-9 | 1-2 |
| Nanoscience & Nanotechnology | n/c | | | | 301-400 | 96-119 | 9-18 | 2-4 |
| Energy Science & Engineering | 201-300 | 64-108 | 8-16 | 2-3 | 201-300 | 61-99 | 6-14 | 2-3 |
| Environmental Science & Engineering | 151-200 | 50-68 | 6-8 | 2-3 | 151-200 | 49-70 | 7-8 | 2-3 |
| Water Resources | 151-200 | 61-77 | 8-10 | 2 | n/c | | | |
| Food Science & Technology | 11 | 4 | 3 | 1 | 12 | 3 | 3 | 1 |
| Biotechnology | 201-300 | 74-115 | 8-14 | 3-4 | 151-200 | 48-69 | 5-8 | 1-3 |
| Aerospace Engineering | n/c | | | | n/c | | | |
| Marine/Ocean Engineering | n/c | | | | n/c | | | |
| Transportation Science & Technology | n/c | | | | 151-200 | 44-59 | 9-11 | 3 |
| Remote Sensing | n/c | | | | n/c | | | |
| Mining & Mineral Engineering | n/c | | | | n/c | | | |
| Metallurgical Engineering | n/c | | | | n/c | | | |

[2] Retirado de http://www.shanghairanking.com/Shanghairanking-Subject-Rankings/index.html em 3 e 4 de julho de 2017, GRAS 2017; de 17 a 19 de julho de 2018, GRAS 2018.

| | 2017 | | | | 2018 | | | |
|---|---|---|---|---|---|---|---|---|
| | **World rank** | **Euro rank** | **IbAm rank** | **PT rank** | **World rank** | **Euro rank** | **IbAm rank** | **PT rank** |
| **LIFE SCIENCES** | | | | | | | | |
| Biological Science | 201-300 | 103-143 | 5-8 | 1-2 | 151-200 | 70-95 | 4-5 | 1-2 |
| Human Biological Sciences | 201-300 | 98-142 | 4-11 | 1-3 | 201-300 | 96-138 | 4-11 | 1-3 |
| Agricultural Sciences | 151-200 | 67-93 | 13-16 | 2 | 151-200 | 68-94 | 15-17 | 2 |
| Veterinary Sciences | 51-75 | 30-40 | 6-10 | 1 | 51-75 | 27-37 | 6-9 | 1-2 |
| **MEDICAL SCIENCES** | | | | | | | | |
| Clinical Medicine | 301-400 | 154-197 | 8-16 | 1-2 | 301-400 | 149-189 | 11-21 | 1-2 |
| Public Health | 151-200 | 55-71 | 5-8 | 1 | 151-200 | 61-74 | 5-7 | 1 |
| Dentistry & Oral Sciences | n/c | | | | 201-300 | 82-118 | 19-37 | 1 |
| Nursing | n/c | | | | n/c | | | |
| Medical Technology | n/c | | | | n/c | | | |
| Pharmacy & Pharmaceutical Sciences | 76-100 | 37-46 | 3 | 1 | 51-75 | 36-43 | 2-3 | 1 |
| **SOCIAL SCIENCES** | | | | | | | | |
| Economics | n/c | | | | 201-300 | 92-142 | 6-15 | 1-4 |
| Statistics | n/c | | | | n/c | | | |
| Law | n/c | | | | n/c | | | |
| Political Sciences | n/c | | | | n/c | | | |
| Sociology | n/c | | | | n/c | | | |
| Education | n/c | | | | 301-400 | 80-120 | 7-16 | 2-3 |
| Communication | n/c | | | | n/c | | | |
| Psychology | n/c | | | | 401-500 | 164-211 | 15-20 | 5-6 |
| Business Administration | n/c | | | | n/c | | | |
| Finance | n/c | | | | n/c | | | |
| Management | 301-400 | 96-135 | 14-23 | 3-4 | 301-400 | 105-148 | 18-24 | 3-4 |
| Public Administration | n/c | | | | n/c | | | |
| Hospitality & Tourism Management | n/c | | | | n/c | | | |
| Library & Information Science | n/c | | | | n/c | | | |

n/c - não consta

Evolução dos scores

| | 2017 | | | | | | 2018 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **TotalSc** | **PUB** | **CNCI** | **IC** | **TOP** | **AWARD** | **TotalSc** | **PUB** | **CNCI** | **IC** | **TOP** | **AWARD** |
| **NATURAL SCIENCES** | | | | | | | | | | | | |
| Mathematics | | 39,4 | 51,9 | 72,2 | 0 | 0 | | | | | | |
| Physics | | 35,7 | 45 | 86,3 | 12,7 | 0 | | 36,5 | 57,7 | 86,9 | 16 | 0 |
| Chemistry | | 52 | 60,2 | 72,4 | 11 | 0 | | 50,9 | 61,5 | 73,3 | 11,1 | 0 |
| Earth Sciences | | | | | | | | | | | | |
| Geography | | | | | | | | | | | | |
| Ecology | | 57,3 | 60,2 | 89,4 | 49,1 | n/a | | 60,1 | 62,7 | 60,1 | 30,9 | n/a |
| Oceanography (novo 2018) | | | | | | | | 35,6 | 62 | 82,4 | 19,4 | n/a |
| Atmospheric Science(novo 2018) | | | | | | | | 19 | 53,9 | 19 | 14,7 | n/a |
| **ENGINEERING** | | | | | | | | | | | | |
| Mechanical Engineering | | 36,9 | 67 | 63,4 | 15,9 | 0 | | 36,4 | 56,5 | 64,5 | 19,6 | 0 |
| Electrical & Electronic Engineering | | 31,5 | 51,6 | 76,3 | 21,6 | 0 | | 30 | 62,5 | 76,2 | 0 | 0 |
| Automation & Control | | | | | | | | 32 | 41,5 | 72 | 31,8 | 0 |
| Telecommunication Engineering | | | | | | | | | | | | |
| Instruments Science & Technology | | 39,9 | 51,1 | 72,1 | 42,2 | n/a | | 38,7 | 53,1 | 73,2 | 39,2 | n/a |
| Biomedical Engineering | | 36,8 | 61,6 | 66,3 | 26,3 | 0 | | 39,1 | 63,2 | 67,2 | 31,8 | 0 |
| Computer Science & Engineering | | 41,3 | 53,4 | 68,6 | 89,4 | 0 | | 41,2 | 47,9 | 69,1 | 0 | 0 |
| Civil Engineering | | 46,8 | 42,4 | 64,8 | 0 | 0 | | 44,6 | 39,9 | 57,6 | 21,8 | 0 |
| Chemical Engineering | 196,2 | 63,9 | 61,5 | 73,1 | 56,2 | 0 | 174,6 | 59,1 | 56,1 | 73,3 | 44,6 | 0 |
| Materials Science & Engineering | | 38,9 | 65 | 72 | 14 | 0 | | 38,5 | 65,4 | 72,3 | 13,5 | 0 |
| Nanoscience & Nanotechnology | | | | | | | | 29,5 | 62,3 | 82,1 | 10,8 | n/a |
| Energy Science & Engineering | | 34,7 | 65,5 | 79,5 | 16,9 | n/a | | 34,1 | 63,1 | 80,3 | 16,3 | n/a |
| Environmental Science & Engineering | | 67,6 | 62,9 | 67,3 | 17,1 | 0 | | 66 | 64,6 | 67,8 | 15,7 | 0 |
| Water Resources | | 39,7 | 62,8 | 65,6 | 36,3 | n/a | | | | | | |
| Food Science & Technology | 239 | 69,2 | 77 | 60,1 | 80,8 | n/a | 231,3 | 67,7 | 74,3 | 63,7 | 76,5 | n/a |
| Biotechnology | | 46 | 42,2 | 70,8 | 30,9 | n/a | | 48 | 44 | 70,8 | 31,1 | n/a |
| Aerospace Engineering | | | | | | | | | | | | |
| Marine/Ocean Engineering | | | | | | | | | | | | |
| Transportation Science & Technology | | | | | | | | 33,2 | 62,8 | 61,6 | 33,8 | n/a |
| Remote Sensing | | | | | | | | | | | | |
| Mining & Mineral Engineering | | | | | | | | | | | | |
| Metallurgical Engineering | | | | | | | | | | | | |

| | 2017 | | | | | | 2018 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **TotalSc** | **PUB** | **CNCI** | **IC** | **TOP** | **AWARD** | **TotalSc** | **PUB** | **CNCI** | **IC** | **TOP** | **AWARD** |
| **LIFE SCIENCES** | | | | | | | | | | | | |
| Biological Science | | 40,7 | 40,5 | 79,9 | 11,1 | 0 | | 41,5 | 44,6 | 80,3 | 6,9 | 0 |
| Human Biological Sciences | | 27,1 | 60,8 | 72,9 | 19,3 | n/a | | 27,6 | 60,8 | 74,2 | 20 | n/a |
| Agricultural Sciences | | 39,7 | 62,2 | 77,2 | 36,1 | n/a | | 39,5 | 62,7 | 79,6 | 35,6 | n/a |
| Veterinary Sciences | | 31,2 | 85,3 | 76,1 | 29,9 | n/a | | 31,2 | 83,6 | 76,8 | 34,3 | n/a |
| **MEDICAL SCIENCES** | | | | | | | | | | | | |
| Clinical Medicine | | 22,2 | 60,7 | 66,4 | 9,1 | 0 | | 22,7 | 64,2 | 67,3 | 14 | 0 |
| Public Health | | 27,8 | 39,4 | 69 | 23,5 | n/a | | 28 | 53,3 | 70,3 | 9,6 | n/a |
| Dentistry & Oral Sciences | | | | | | | | 22,2 | 56,1 | 64,4 | 14,4 | 0 |
| Nursing | | | | | | | | | | | | |
| Medical Technology | | | | | | | | | | | | |
| Pharmacy & Pharmaceutical Sciences | | 63,5 | 59,6 | 71,6 | 0 | 0 | | 65,5 | 61,3 | 70,9 | 0 | n/a |
| **SOCIAL SCIENCES** | | | | | | | | | | | | |
| Economics | | | | | | | | 37,4 | 41,6 | 60,3 | 6,7 | 0 |
| Statistics | | | | | | | | | | | | |
| Law | | | | | | | | | | | | |
| Political Sciences | | | | | | | | | | | | |
| Sociology | | | | | | | | | | | | |
| Education | | | | | | | | 38,4 | 50,9 | 57,8 | 0 | n/a |
| Communication | | | | | | | | | | | | |
| Psychology | | | | | | | | 29,7 | 59 | 75,6 | 0 | n/a |
| Business Administration | | | | | | | | | | | | |
| Finance | | | | | | | | | | | | |
| Management | | 40,9 | 53,3 | 78,2 | 0 | n/a | | 44 | 57,9 | 78 | 0 | n/a |
| Public Administration | | | | | | | | | | | | |
| Hospitality & Tourism Management | | | | | | | | | | | | |
| Library & Information Science | | | | | | | | | | | | |

n/a – não aplicável

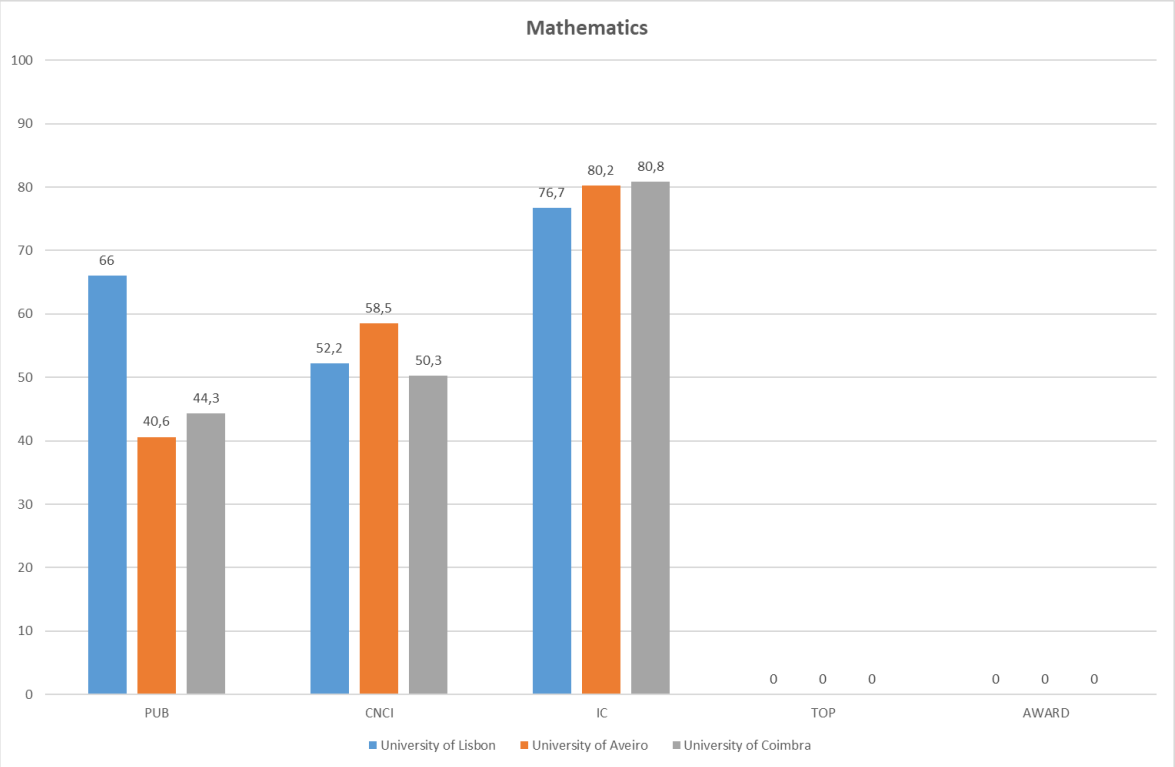
# 3. As Universidades portuguesas no ShanghaiRanking's Global Ranking of Academic Subjects 2018

## 3.1 NATURAL SCIENCES

### 3.1.1 Mathematics

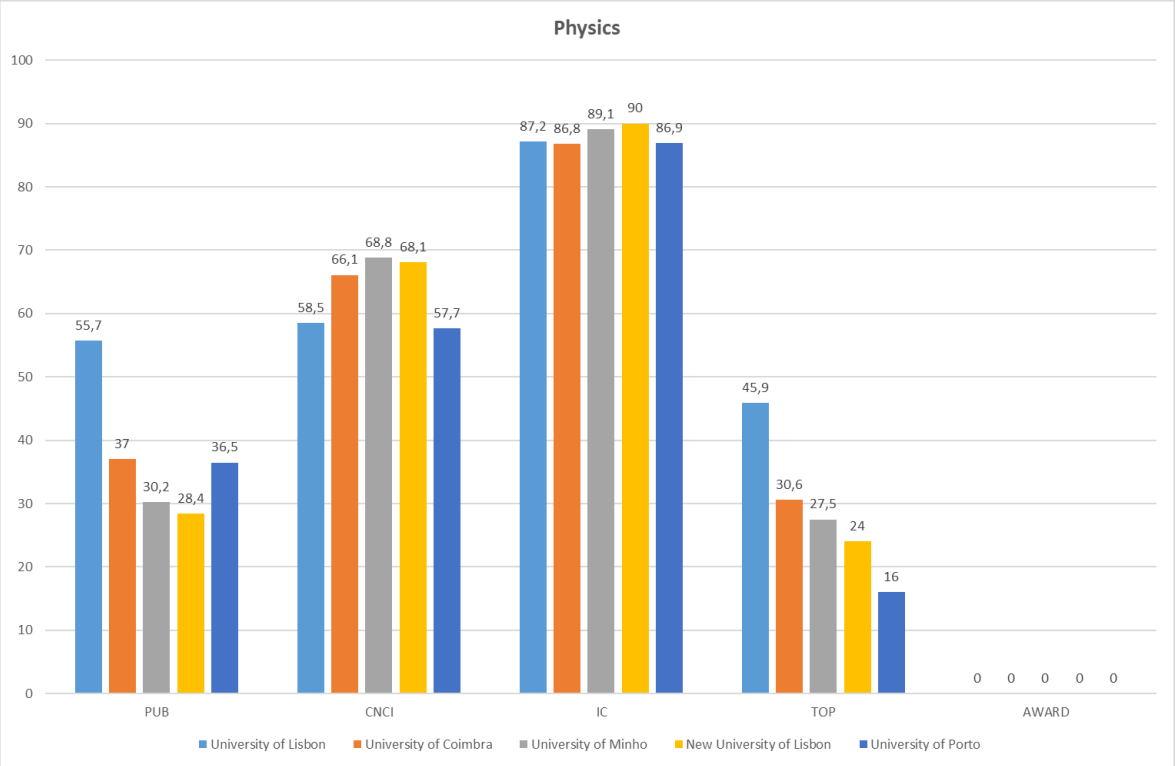
| World Rank 2018 | World Rank 2017 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 151-200 | 76-100 | 69-96 | 8 | 1 | University of Lisbon | | 66 | 52.2 | 76.7 | 0 | 0 |
| 301-400 | 201-300 | 145-197 | 20-30 | 2 | University of Aveiro | | 40.6 | 58.5 | 80.2 | 0 | 0 |
| 301-400 | 301-400 | 145-198 | 20-31 | 3 | University of Coimbra | | 44.3 | 50.3 | 80.8 | 0 | 0 |
| n/c | 401-500 | | | | University of Porto | | | | | | |
| 500 | 500 | 226 | 37 | 3 | Nº IES | | | | | | |

n/c - não consta



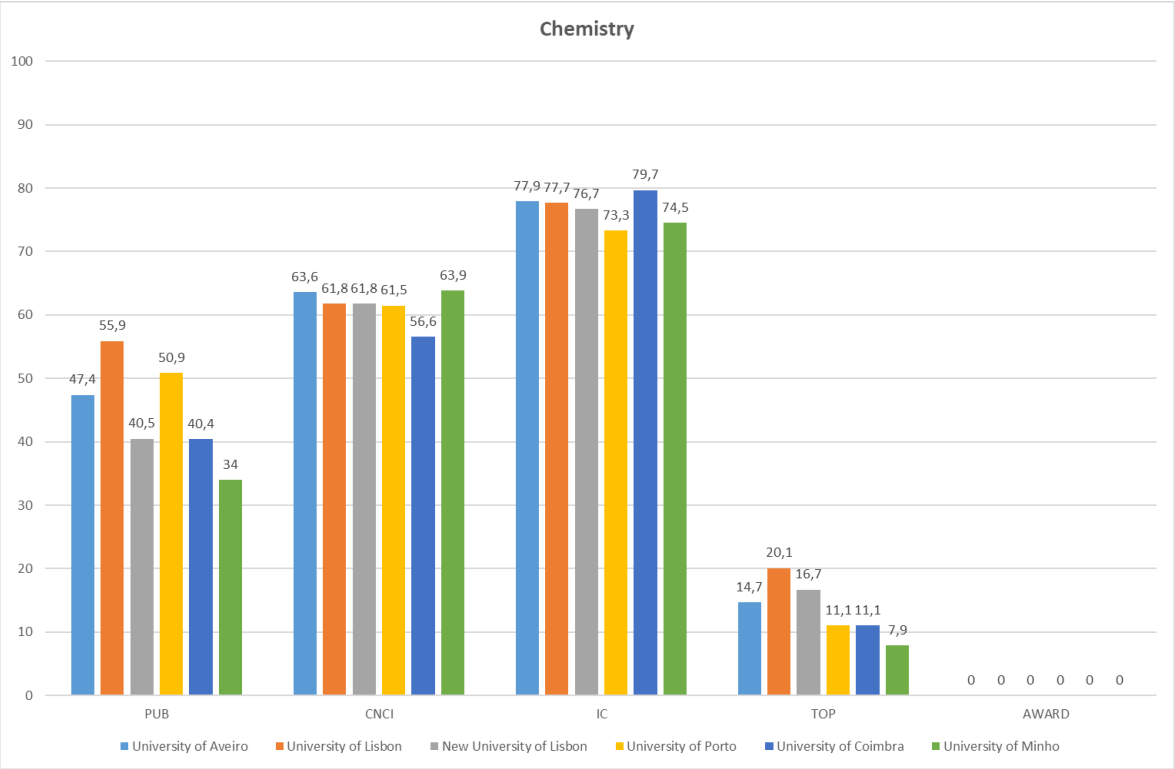
### 3.1.2 Physics

| World Rank 2018 | World Rank 2017 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 101-150 | 101-150 | 49-74 | 2-4 | 1 | University of Lisbon | | 55,7 | 58,5 | 87,2 | 45,9 | 0 |
| 301-400 | 301-400 | 147-186 | 21-30 | 2-3 | University of Coimbra | | 37 | 66,1 | 86,8 | 30,6 | 0 |
| 301-400 | 301-400 | 147-186 | 21-30 | 2-3 | University of Minho | | 30,2 | 68,8 | 89,1 | 27,5 | 0 |
| 401-500 | 401-500 | 187-223 | 31-38 | 4-5 | New University of Lisbon | | 28,4 | 68,1 | 90 | 24 | 0 |
| 401-500 | 401-500 | 187-223 | 31-38 | 4-5 | University of Porto | | 36,5 | 57,7 | 86,9 | 16 | 0 |
| 500 | 500 | 223 | 38 | 5 | Nº IES | | | | | | |



### 3.1.3 Chemistry

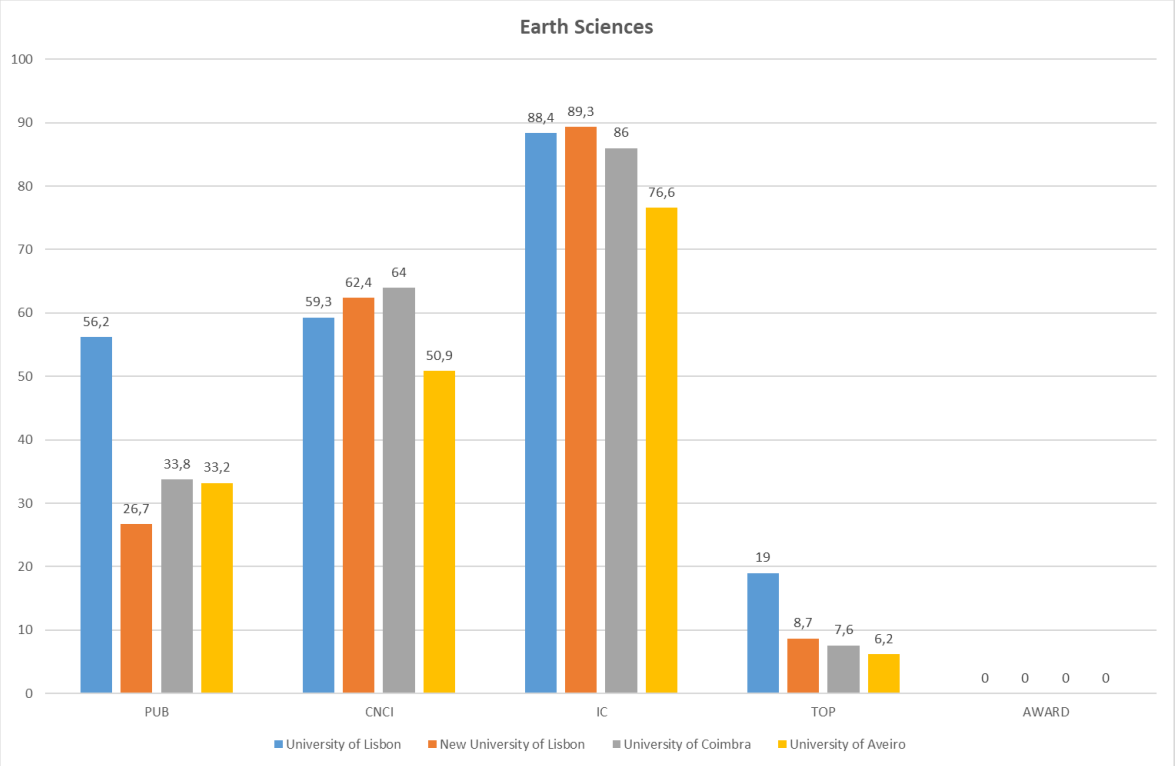
| World Rank 2018 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 201-300 | 201-300 | 66-117 | 6-15 | 1-2 | University of Aveiro | | 47,4 | 63,6 | 77,9 | 14,7 | 0 |
| 201-300 | 201-300 | 66-117 | 6-15 | 1-2 | University of Lisbon | | 55,9 | 61,8 | 77,7 | 20,1 | 0 |
| 301-400 | 301-400 | 118-167 | 16-21 | 3-4 | New University of Lisbon | | 40,5 | 61,8 | 76,7 | 16,7 | 0 |
| 301-400 | 201-300 | 118-167 | 16-21 | 3-4 | University of Porto | | 50,9 | 61,5 | 73,3 | 11,1 | 0 |
| 401-500 | 401-500 | 168-209 | 22-27 | 5-6 | University of Coimbra | | 40,4 | 56,6 | 79,7 | 11,1 | 0 |
| 401-500 | 401-500 | 168-209 | 22-27 | 5-6 | University of Minho | | 34 | 63,9 | 74,5 | 7,9 | 0 |
| 500 | 500 | 209 | 27 | 6 | Nº IES | | | | | | |



### 3.1.4 Earth Sciences

| World Rank 2018 | World Rank 2017 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 151-200 | 151-200 | 68-95 | 4-8 | 1 | University of Lisbon | | 56,2 | 59,3 | 88,4 | 19 | 0 |
| 301-400 | n/c | 136-175 | 11-20 | 2-3 | New University of Lisbon | | 26,7 | 62,4 | 89,3 | 8,7 | 0 |
| 301-400 | n/c | 136-175 | 11-20 | 2-3 | University of Coimbra | | 33,8 | 64 | 86 | 7,6 | 0 |
| 401-500 | n/c | 176-223 | 21-33 | 4 | University of Aveiro | | 33,2 | 50,9 | 76,6 | 6,2 | 0 |
| 500 | 300 | 223 | 23 | 4 | Nº IES | | | | | | |

n/c - não consta



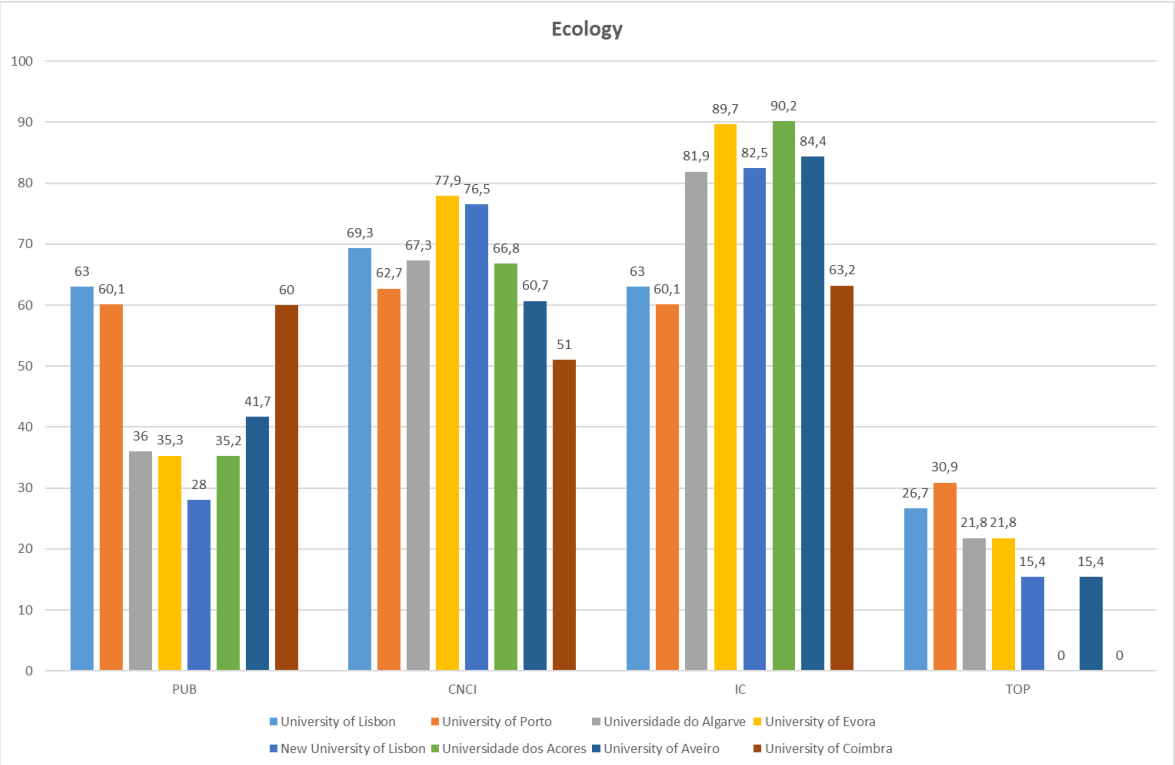
### 3.1.5 Geography

| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 76-100 | 101-150 | 42-54 | 1-3 | 1 | University of Lisbon | | 51,1 | 70,4 | 85,4 | 45,6 |
| 200 | 200 | 101 | 8 | 1 | Nº IES | | | | | |

### 3.1.6 Ecology

| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 101-150 | 101-150 | 49-72 | 3-6 | 1-2 | University of Lisbon | | 63 | 69,3 | 63 | 26,7 |
| 101-150 | 101-150 | 49-72 | 3-6 | 1-2 | University of Porto | | 60,1 | 62,7 | 60,1 | 30,9 |
| 201-300 | n/c | 96-137 | 11-22 | 3-4 | Universidade do Algarve | | 36 | 67,3 | 81,9 | 21,8 |
| 201-300 | 151-200 | 96-137 | 11-22 | 3-4 | University of Evora | | 35,3 | 77,9 | 89,7 | 21,8 |
| 301-400 | n/c | 138-186 | 22-47 | 5-8 | New University of Lisbon | | 28 | 76,5 | 82,5 | 15,4 |
| 301-400 | 201-300 | 138-186 | 22-47 | 5-8 | Universidade dos Acores | | 35,2 | 66,8 | 90,2 | 0 |
| 301-400 | n/c | 138-186 | 22-47 | 5-8 | University of Aveiro | | 41,7 | 60,7 | 84,4 | 15,4 |
| 301-400 | 201-300 | 138-186 | 22-47 | 5-8 | University of Coimbra | | 60 | 51 | 63,2 | 0 |
| 400 | 300 | 186 | 47 | 8 | Nº IES | | | | | |

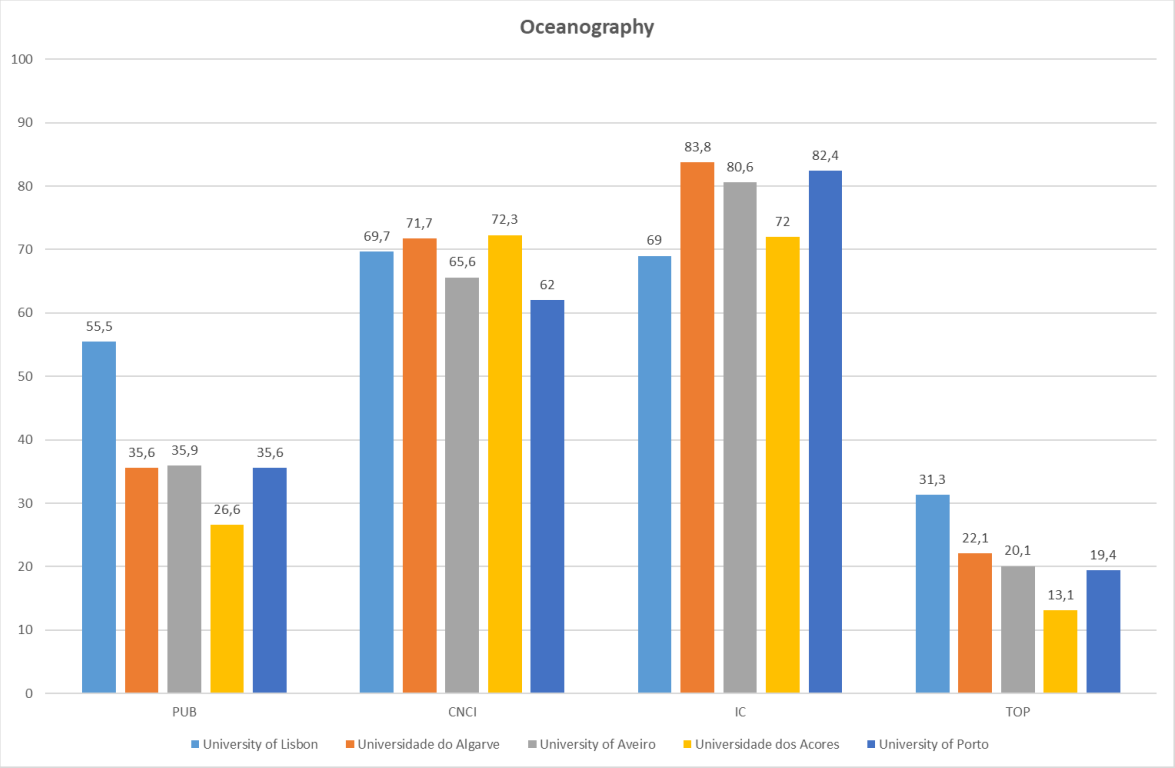
n/c - não consta



### 3.1.7 Oceanography

Área nova 2018

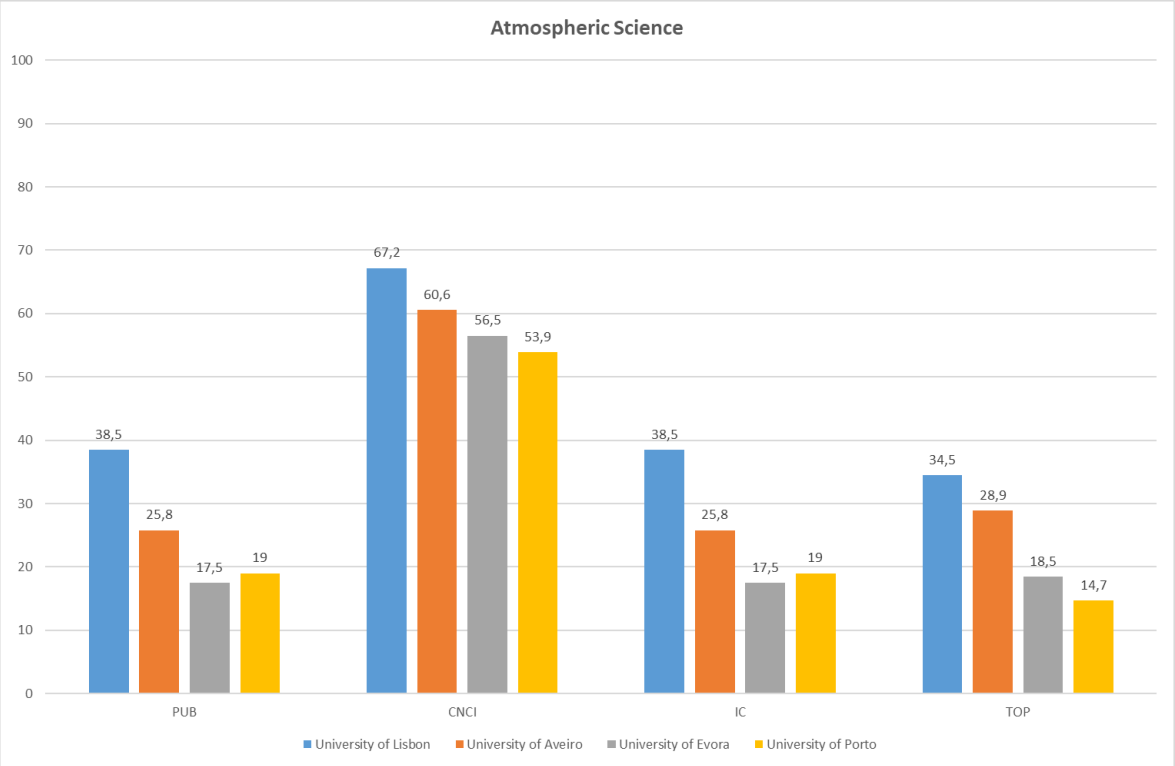
| World Rank | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|
| 51-75 | 17-28 | 1 | 1 | University of Lisbon | | 55,5 | 69,7 | 69 | 31,3 |
| 101-150 | 42-65 | 5-10 | 2-3 | Universidade do Algarve | | 35,6 | 71,7 | 83,8 | 22,1 |
| 101-150 | 42-65 | 5-10 | 2-3 | University of Aveiro | | 35,9 | 65,6 | 80,6 | 20,1 |
| 151-200 | 66-82 | 11-20 | 4-5 | Universidade dos Acores | | 26,6 | 72,3 | 72 | 13,1 |
| 151-200 | 66-82 | 11-20 | 4-5 | University of Porto | | 35,6 | 62 | 82,4 | 19,4 |
| 200 | 82 | 20 | 5 | Nº IES | | | | | |



### 3.1.8 Atmospheric Science

Área nova 2018

| World Rank | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|
| 76-100 | 32-42 | 1-2 | 1 | University of Lisbon | | 38,5 | 67,2 | 38,5 | 34,5 |
| 201-300 | 93-137 | 9-16 | 2 | University of Aveiro | | 25,8 | 60,6 | 25,8 | 28,9 |
| 301-400 | 138-164 | 17-23 | 3-4 | University of Evora | | 17,5 | 56,5 | 17,5 | 18,5 |
| 301-400 | 138-164 | 17-23 | 3-4 | University of Porto | | 19 | 53,9 | 19 | 14,7 |
| 400 | 164 | 23 | 4 | Nº IES | | 38,5 | 67,2 | 38,5 | 34,5 |

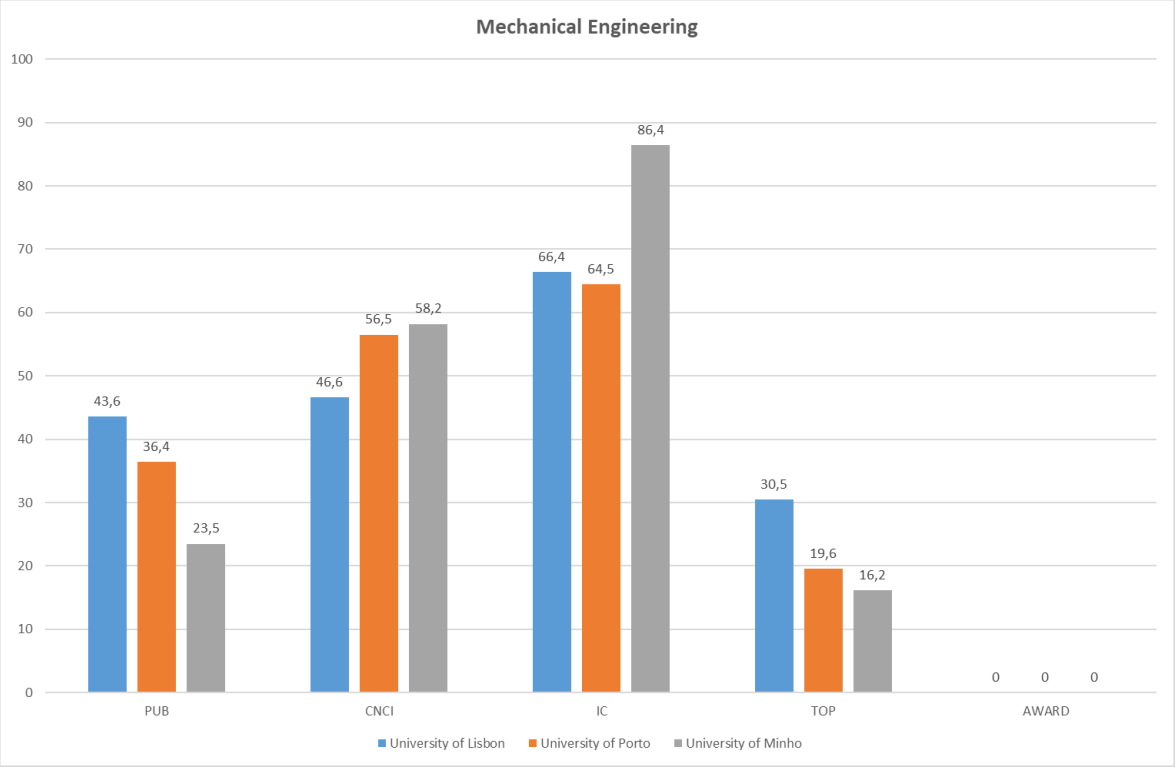


## 3.2 ENGINEERING

### 3.2.1 Mechanical Engineering

| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 101-150 | 101-150 | 29-45 | 1-3 | 1 | University of Lisbon | | 43,6 | 46,6 | 66,4 | 30,5 | 0 |
| 151-200 | 151-200 | 46-59 | 4-7 | 2 | University of Porto | | 36,4 | 56,5 | 64,5 | 19,6 | 0 |
| 201-300 | 201-300 | 60-96 | 8-13 | 3 | University of Minho | | 23,5 | 23,5 | 86,4 | 16,2 | 0 |
| n/c | 201-300 | | | | University of Aveiro | | | | | | |
| 300 | 300 | 96 | 13 | 3 | Nº IES | | | | | | |

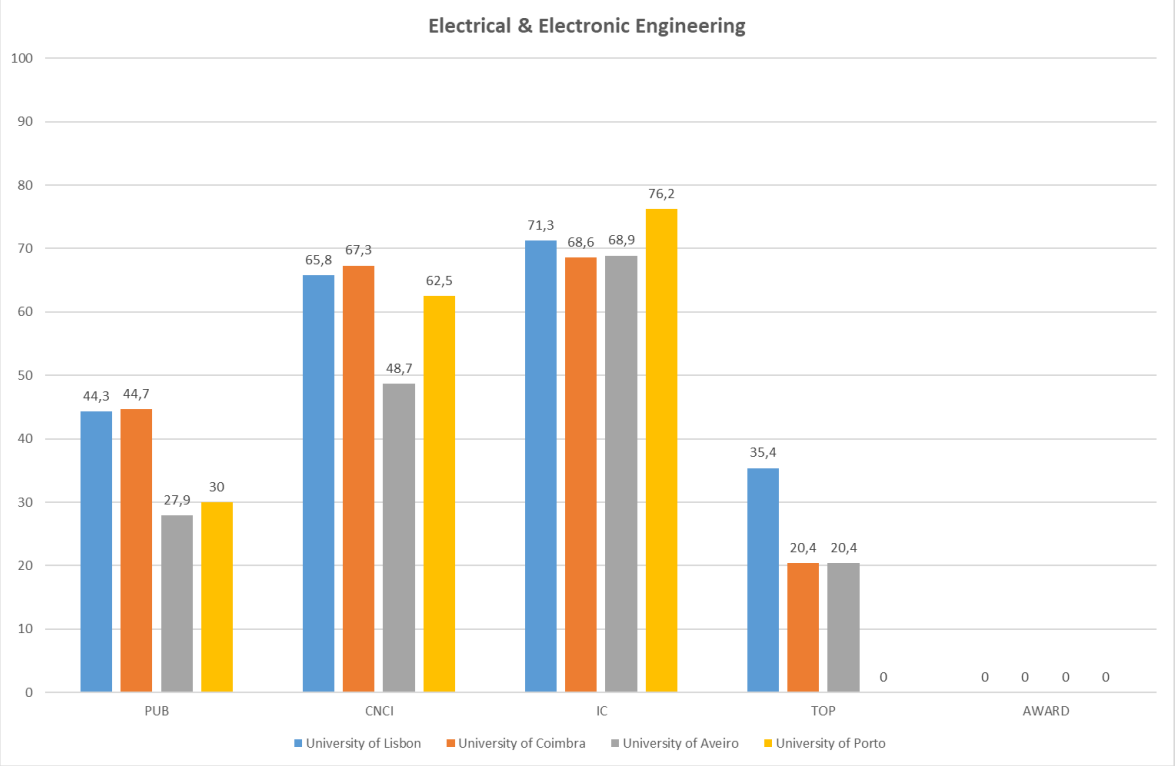
n/c - não consta



### 3.2.2 Electrical & Electronic Engineering

| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 51-75 | 76-100 | 14-23 | 2 | 1 | University of Lisbon | | 44,3 | 65,8 | 71,3 | 35,4 | 0 |
| 101-150 | 151-200 | 33-49 | 4-6 | 2 | University of Coimbra | | 44,7 | 67,3 | 68,6 | 20,4 | 0 |
| 301-400 | 301-400 | 94-129 | 15-27 | 3-4 | University of Aveiro | | 27,9 | 48,7 | 68,9 | 20,4 | 0 |
| 301-400 | 201-300 | 94-129 | 15-27 | 3-4 | University of Porto | | 30 | 62,5 | 76,2 | 0 | 0 |
| n/c | 301-400 | | | | University of Beira Interior | | | | | | |
| 500 | 500 | 152 | 36 | 4 | Nº IES | | | | | | |

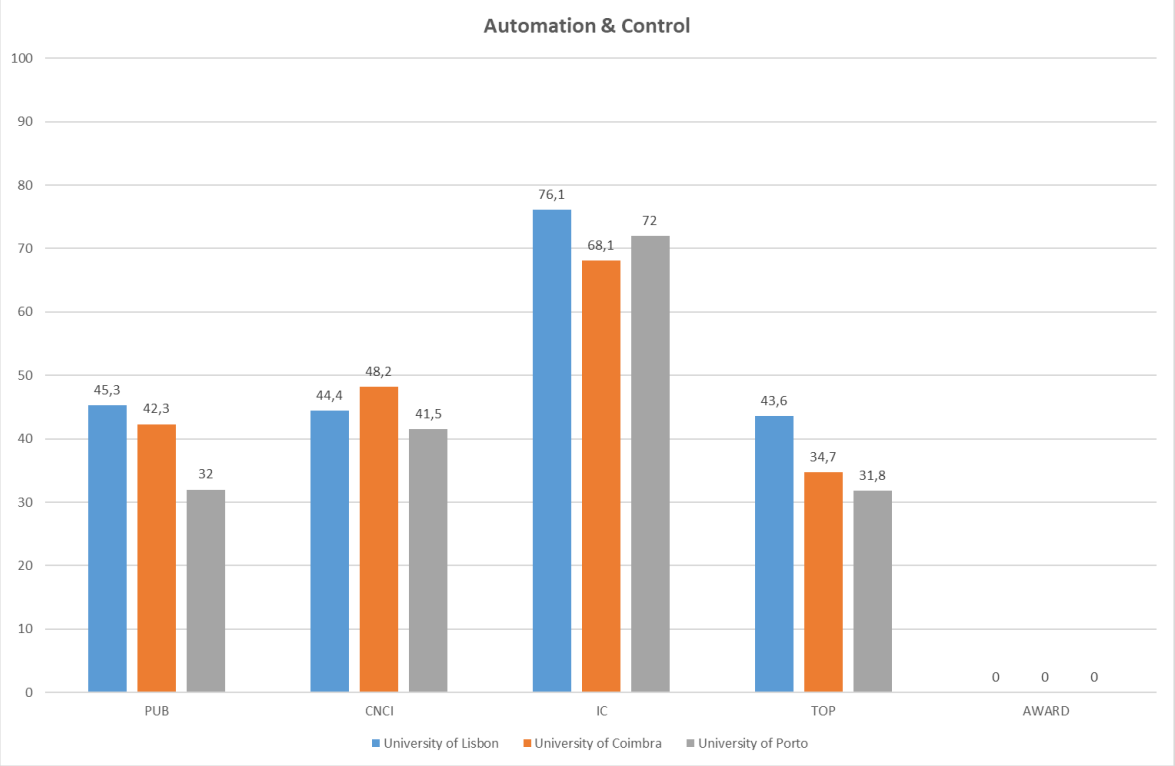
n/c - não consta



### 3.2.3 Automation & Control

| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 76-100 | 76-100 | 23-33 | 1-5 | 1 | University of Lisbon | | 45,3 | 44,4 | 76,1 | 43,6 | 0 |
| 101-150 | 76-100 | 34-45 | 6-9 | 2-3 | University of Coimbra | | 42,3 | 48,2 | 68,1 | 34,7 | 0 |
| 101-150 | n/c | 34-45 | 6-9 | 2-3 | University of Porto | | 32 | 41,5 | 72 | 31,8 | 0 |
| 200 | 100 | 53 | 14 | 3 | Nº IES | | | | | | |

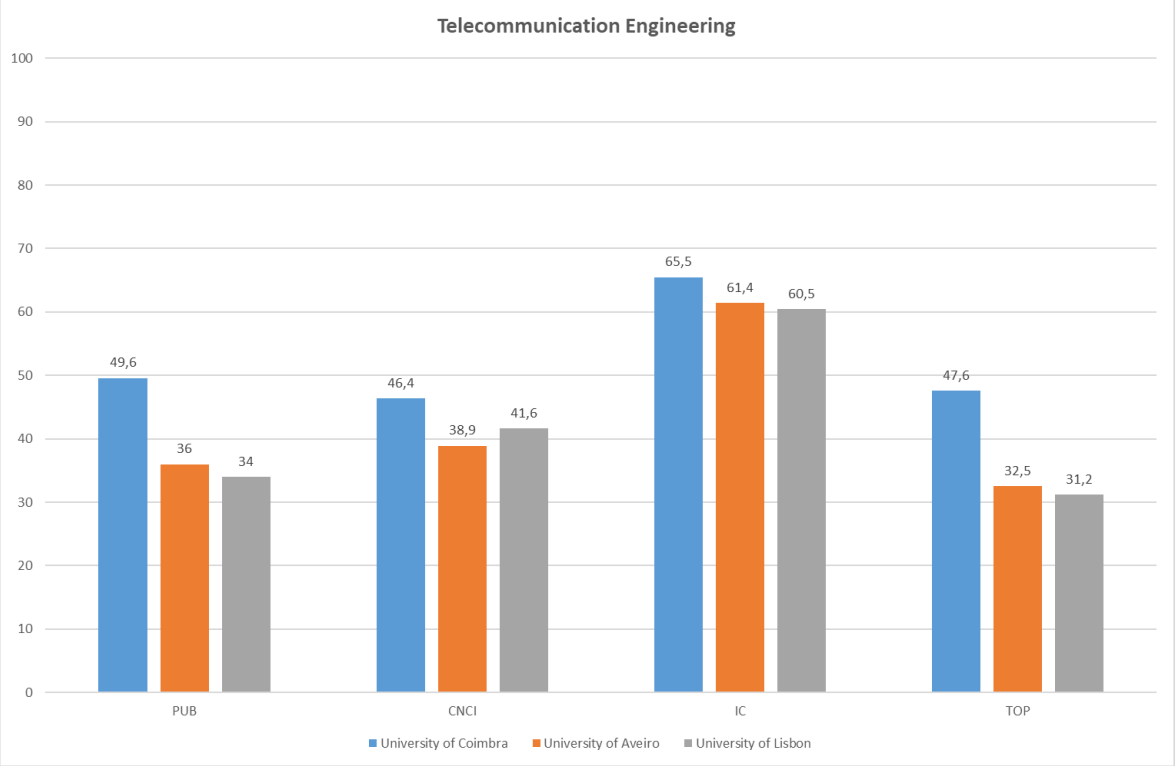
n/c - não consta



### 3.2.4 Telecommunication Engineering

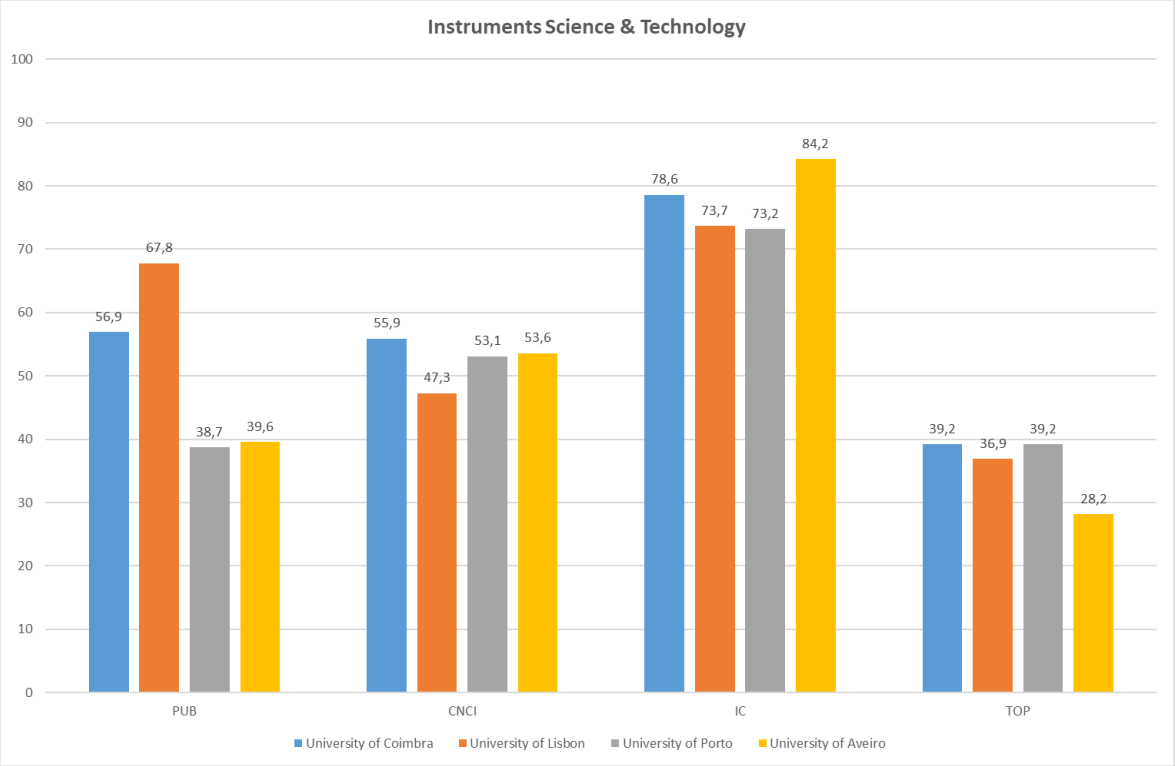
| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 51-75 | n/c | 14-21 | 2 | 1 | University of Coimbra | | 49,6 | 46,4 | 65,5 | 47,6 |
| 151-200 | 151-200 | 44-58 | 5-7 | 2-3 | University of Aveiro | | 36 | 38,9 | 61,4 | 32,5 |
| 151-200 | 151-200 | 44-58 | 5-7 | 2-3 | University of Lisbon | | 34 | 41,6 | 60,5 | 31,2 |
| 200 | 200 | 58 | 7 | 3 | Nº IES | | | | | |

n/c - não consta



### 3.2.5 Instruments Science & Technology

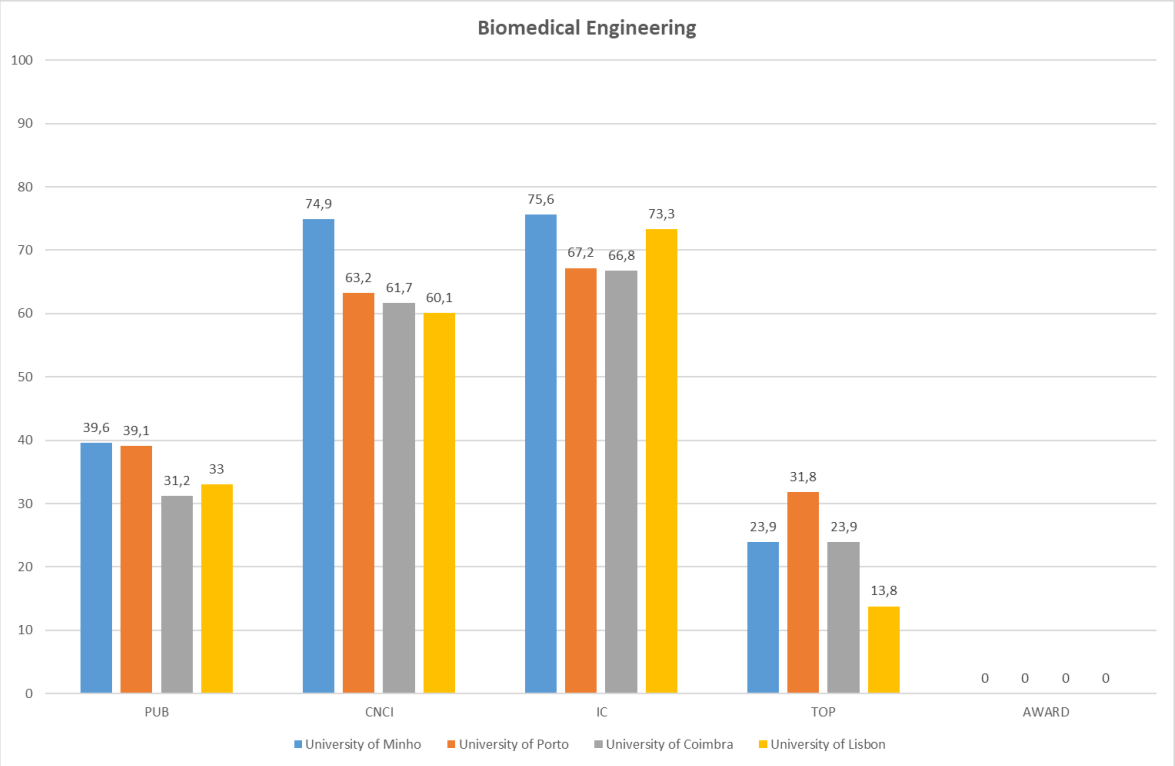
| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 51-75 | 101-150 | 13-25 | 3-6 | 1-2 | University of Coimbra | | 56,9 | 55,9 | 78,6 | 39,2 |
| 51-75 | 51-75 | 13-25 | 3-6 | 1-2 | University of Lisbon | | 67,8 | 47,3 | 73,7 | 36,9 |
| 151-200 | 151-200 | 53-74 | 11-17 | 3 | University of Porto | | 38,7 | 53,1 | 73,2 | 39,2 |
| 201-300 | 201-300 | 75-127 | 18-26 | 4 | University of Aveiro | | 39,6 | 53,6 | 84,2 | 28,2 |
| 300 | 300 | 127 | 26 | 4 | Nº IES | | | | | |



### 3.2.6 Biomedical Engineering

| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 101-150 | 76-100 | 27-47 | 1-3 | 1-2 | University of Minho | | 39,6 | 74,9 | 75,6 | 23,9 | 0 |
| 101-150 | 151-200 | 27-47 | 1-3 | 1-2 | University of Porto | | 39,1 | 63,2 | 67,2 | 31,8 | 0 |
| 201-300 | n/c | 70-111 | 7-12 | 3-4 | University of Coimbra | | 31,2 | 61,7 | 66,8 | 23,9 | 0 |
| 201-300 | 201-300 | 70-111 | 7-12 | 3-4 | University of Lisbon | | 33 | 60,1 | 73,3 | 13,8 | 0 |
| 300 | 300 | 111 | 12 | 4 | Nº IES | | | | | | |

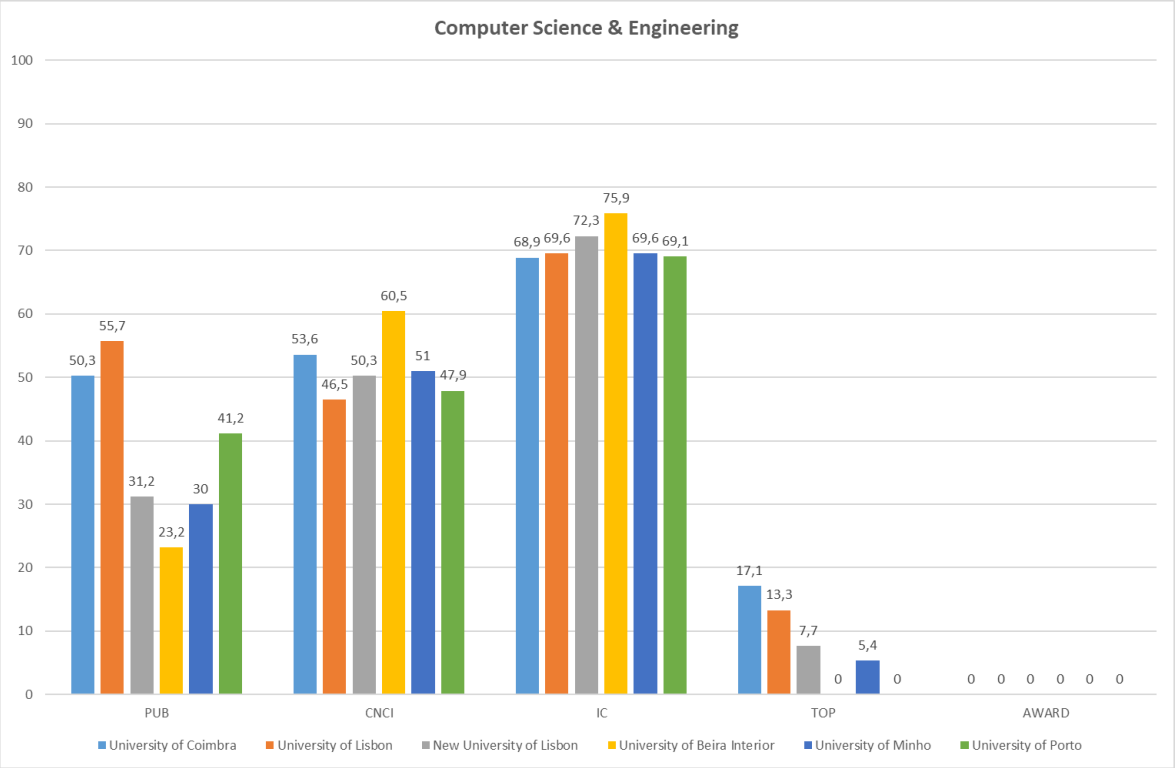
n/c - não consta



### 3.2.7 Computer Science & Engineering

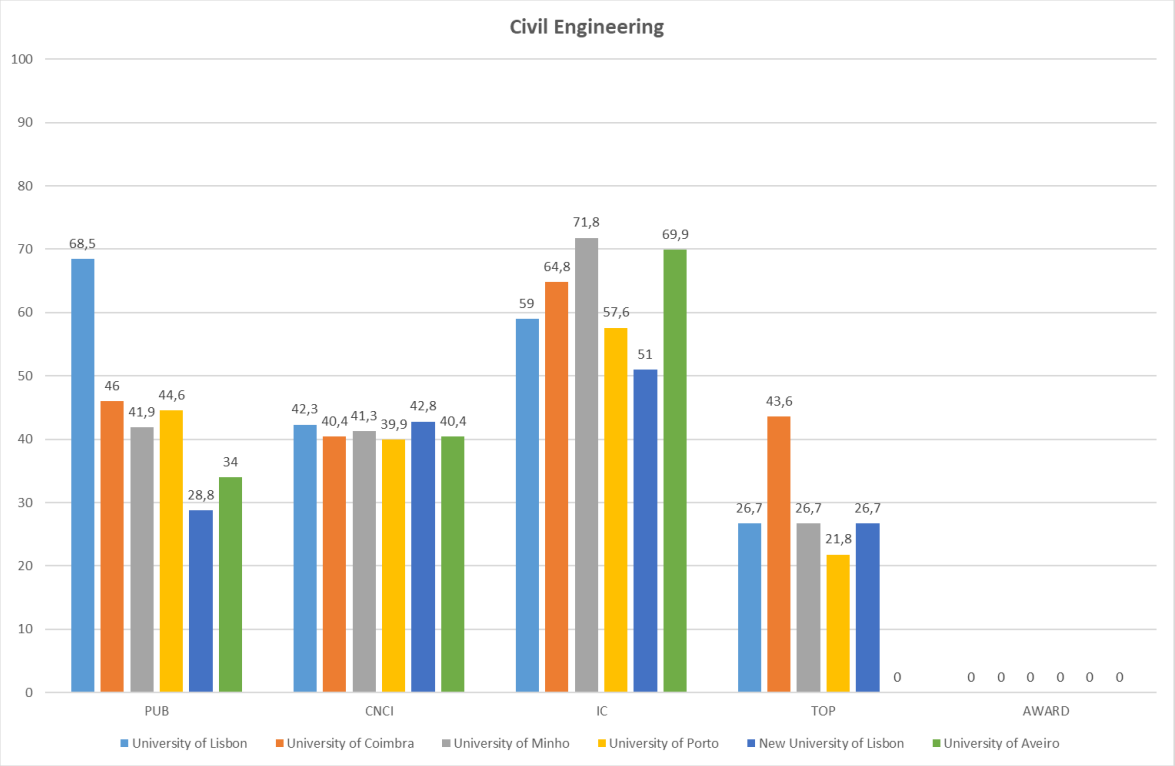
| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 101-150 | 151-200 | 24-43 | 3 | 1 | University of Coimbra | | 50,3 | 53,6 | 68,9 | 17,1 | 0 |
| 151-200 | 76-100 | 44-64 | 4-5 | 2 | University of Lisbon | | 55,7 | 46,5 | 69,6 | 13,3 | 0 |
| 301-400 | 401-500 | 108-150 | 14-22 | 3 | New University of Lisbon | | 31,2 | 50,3 | 72,3 | 7,7 | 0 |
| 401-500 | n/c | 151-198 | 23-32 | 4-6 | University of Beira Interior | | 23,2 | 60,5 | 75,9 | 0 | 0 |
| 401-500 | 301-400 | 151-198 | 23-32 | 4-6 | University of Minho | | 30 | 51 | 69,6 | 5,4 | 0 |
| 401-500 | 101-150 | 151-198 | 23-32 | 4-6 | University of Porto | | 41,2 | 47,9 | 69,1 | 0 | 0 |
| n/c | 401-500 | | | | University of Aveiro | | | | | | |
| 500 | 500 | 198 | 32 | 6 | Nº IES | | | | | | |

n/c - não consta



### 3.2.8 Civil Engineering

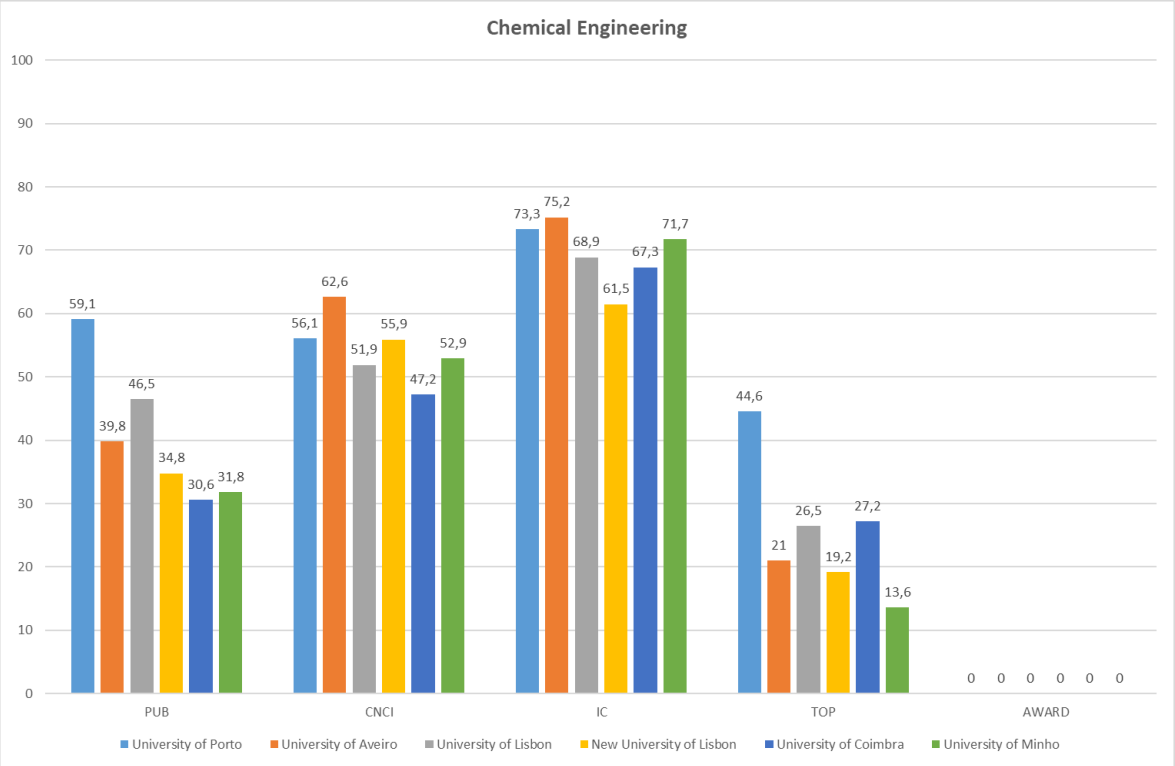
| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 43 | 8 | 2 | 1 | University of Lisbon | 149,4 | 68,5 | 42,3 | 59 | 26,7 | 0 |
| 51-75 | 51-75 | 10-15 | 3-4 | 2 | University of Coimbra | | 46 | 40,4 | 64,8 | 43,6 | 0 |
| 76-100 | 76-100 | 16-21 | 5 | 3 | University of Minho | | 41,9 | 41,3 | 71,8 | 26,7 | 0 |
| 101-150 | 201-300 | 22-38 | 6-8 | 4 | University of Porto | | 44,6 | 39,9 | 57,6 | 21,8 | 0 |
| 151-200 | 151-200 | 39-58 | 9-11 | 5 | New University of Lisbon | | 28,8 | 42,8 | 51 | 26,7 | 0 |
| 201-300 | 201-300 | 59-92 | 12-18 | 6 | University of Aveiro | | 34 | 40,4 | 69,9 | 0 | 0 |
| 300 | 300 | 92 | 18 | 6 | Nº IES | | | | | | |



### 3.2.9 Chemical Engineering

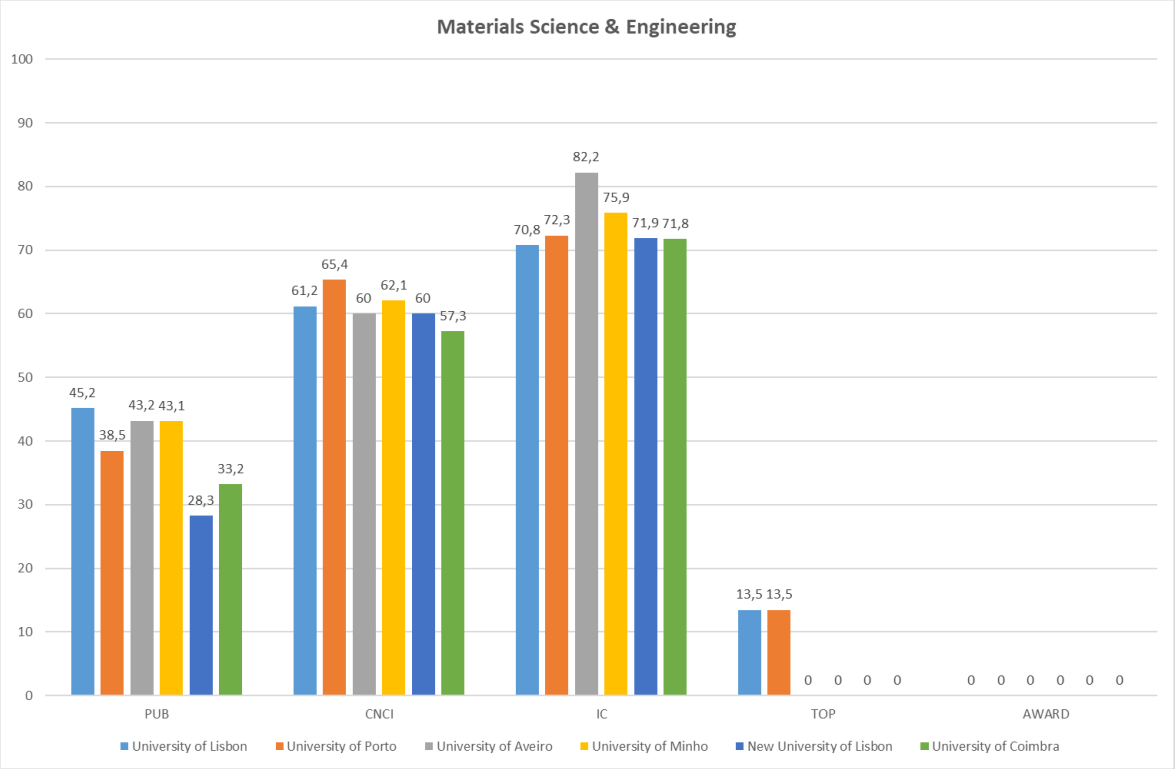
| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | 29 | 7 | 1 | 1 | University of Porto | 174,6 | 59,1 | 56,1 | 73,3 | 44,6 | 0 |
| 101-150 | 101-150 | 19-36 | 3-7 | 2-3 | University of Aveiro | | 39,8 | 62,6 | 75,2 | 21 | 0 |
| 101-150 | 101-150 | 19-36 | 3-7 | 2-3 | University of Lisbon | | 46,5 | 51,9 | 68,9 | 26,5 | 0 |
| 201-300 | 201-300 | 47-87 | 11-28 | 4-5 | New University of Lisbon | | 34,8 | 55,9 | 61,5 | 19,2 | 0 |
| 201-300 | n/c | 47-87 | 11-28 | 4-5 | University of Coimbra | | 30,6 | 47,2 | 67,3 | 27,2 | 0 |
| 301-400 | 201-300 | 88-121 | 29-43 | 6 | University of Minho | | 31,8 | 52,9 | 71,7 | 13,6 | 0 |
| 500 | 300 | 157 | 51 | 6 | Nº IES | | | | | | |

n/c - não consta



### 3.2.10 Materials Science & Engineering

| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 201-300 | 201-300 | 67-112 | 4-9 | 1-2 | University of Lisbon | | 45,2 | 61,2 | 70,8 | 13,5 | 0 |
| 201-300 | 201-300 | 67-112 | 4-9 | 1-2 | University of Porto | | 38,5 | 65,4 | 72,3 | 13,5 | 0 |
| 301-400 | 201-300 | 113-160 | 10-17 | 3-4 | University of Aveiro | | 43,2 | 60 | 82,2 | 0 | 0 |
| 301-400 | 301-400 | 113-160 | 10-17 | 3-4 | University of Minho | | 43,1 | 62,1 | 75,9 | 0 | 0 |
| 401-500 | 401-500 | 161-193 | 18-23 | 5-6 | New University of Lisbon | | 28,3 | 60 | 71,9 | 0 | 0 |
| 401-500 | 401-500 | 161-193 | 18-23 | 5-6 | University of Coimbra | | 33,2 | 57,3 | 71,8 | 0 | 0 |
| 500 | 500 | 193 | 23 | 6 | Nº IES | | | | | | |

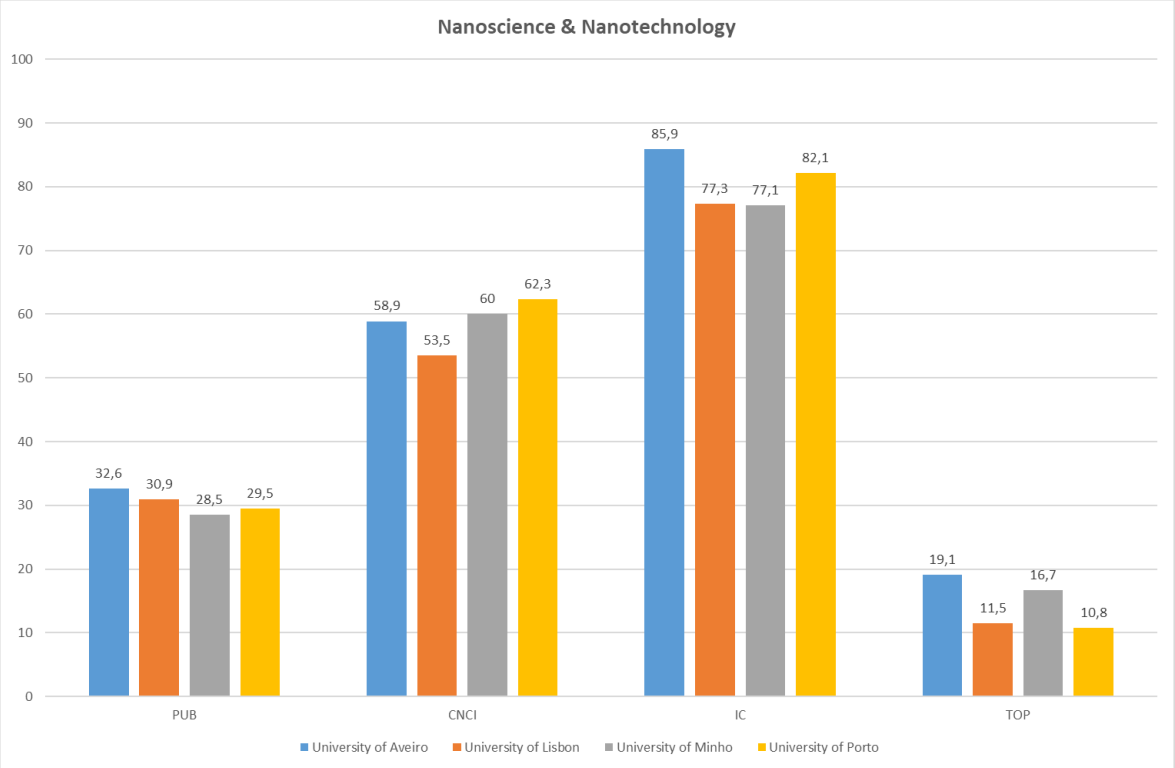


### 3.2.11 Nanoscience & Nanotechnology

Em 2017, não havia nenhuma IES portuguesa entre as 300 listadas.

| World Rank | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|
| 201-300 | 49-95 | 5-8 | 1 | University of Aveiro | | 32.6 | 58.9 | 85.9 | 19.1 |
| 301-400 | 96-119 | 9-18 | 2-4 | University of Lisbon | | 30.9 | 53,5 | 77.3 | 11.5 |
| 301-400 | 96-119 | 9-18 | 2-4 | University of Minho | | 28.5 | 60 | 77.1 | 16.7 |
| 301-400 | 96-119 | 9-18 | 2-4 | University of Porto | | 29.5 | 62.3 | 82.1 | 10.8 |
| 400 | 119 | 18 | 4 | Nº IES | | | | | |

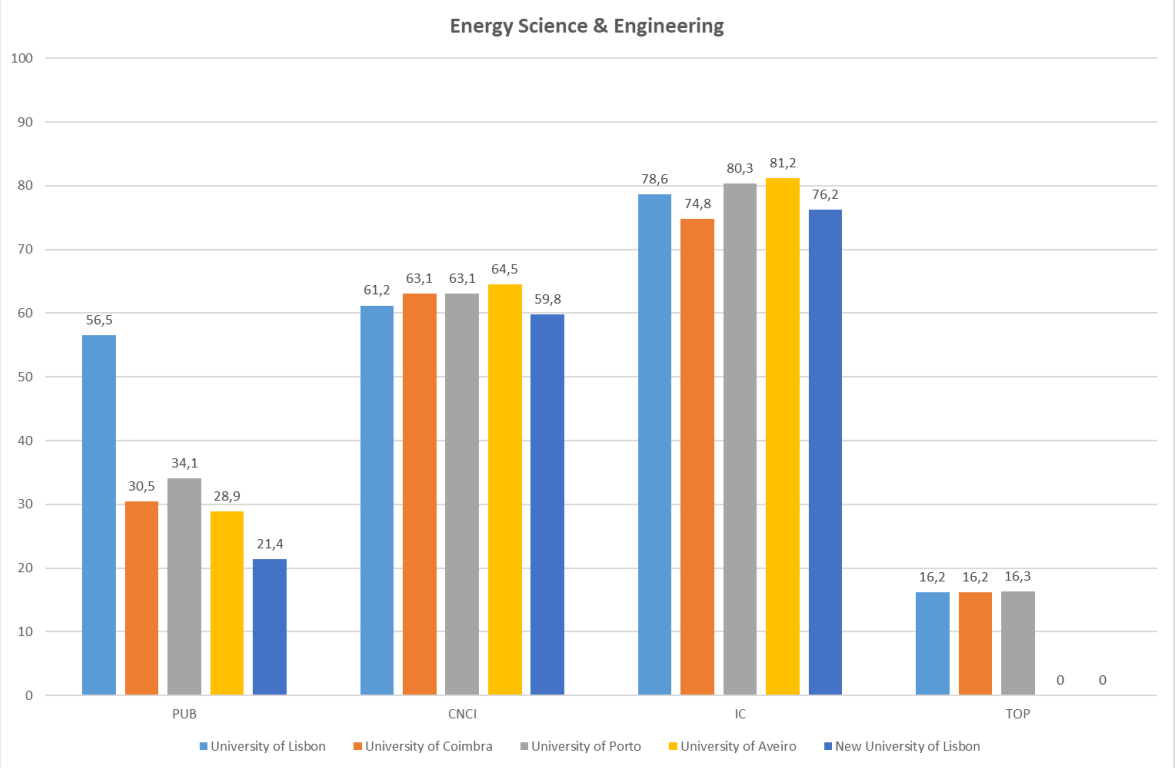
n/c - não consta



### 3.2.12 Energy Science & Engineering

| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 101-150 | 151-200 | 22-36 | 1 | 1 | University of Lisbon | | 56,5 | 61,2 | 78,6 | 16,2 |
| 201-300 | n/c | 61-99 | 6-14 | 2-3 | University of Coimbra | | 30,5 | 63,1 | 74,8 | 16,2 |
| 201-300 | 201-300 | 61-99 | 6-14 | 2-3 | University of Porto | | 34,1 | 63,1 | 80,3 | 16,3 |
| 301-400 | 201-300 | 100-147 | 15-21 | 4 | University of Aveiro | | 28,9 | 64,5 | 81,2 | 0 |
| 401-500 | n/c | 148-182 | 22-39 | 5 | New University of Lisbon | | 21,4 | 59,8 | 76,2 | 0 |
| 500 | 300 | 182 | 39 | 5 | Nº IES | | | | | |

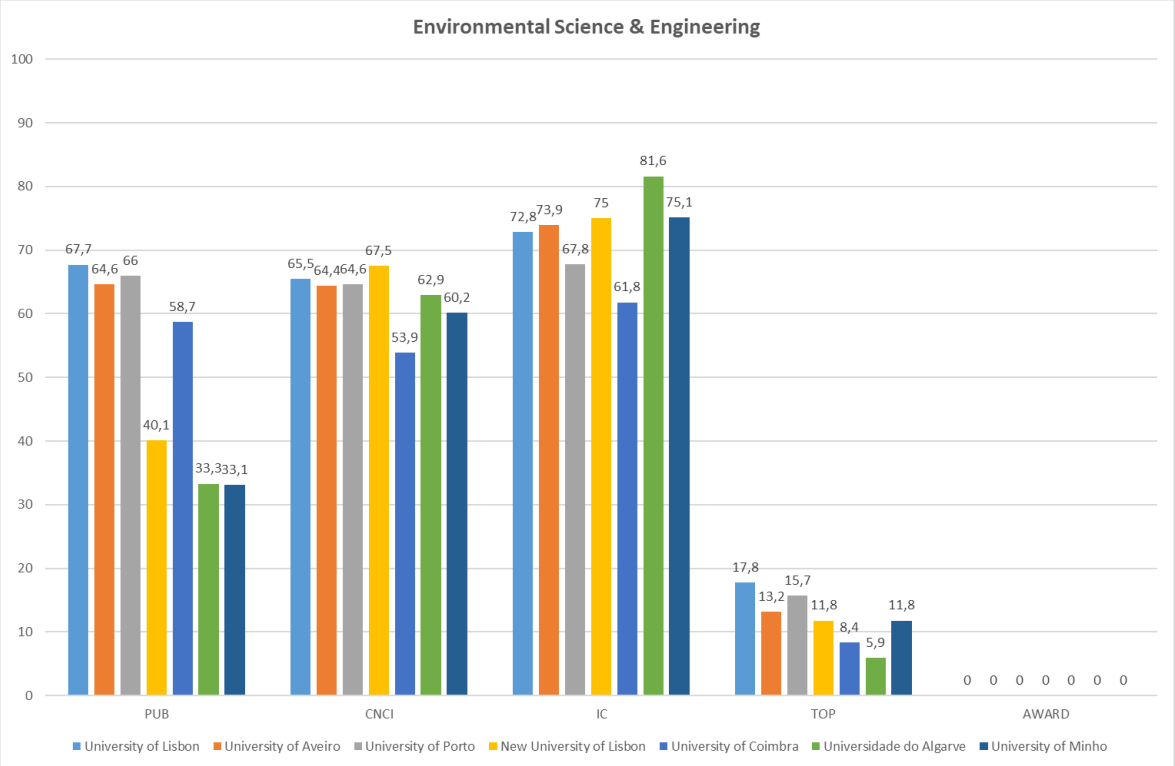
n/c - não consta



### 3.2.13 Environmental Science & Engineering

| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 101-150 | 101-150 | 29-48 | 1-6 | 1 | University of Lisbon | | 67,7 | 65,5 | 72,8 | 17,8 | 0 |
| 151-200 | 151-200 | 49-70 | 7-8 | 2-3 | University of Aveiro | | 64,6 | 64,4 | 73,9 | 13,2 | 0 |
| 151-200 | 151-200 | 49-70 | 7-8 | 2-3 | University of Porto | | 66 | 64,6 | 67,8 | 15,7 | 0 |
| 301-400 | 301-400 | 116-160 | 15-26 | 4-5 | New University of Lisbon | | 40,1 | 67,5 | 75 | 11,8 | 0 |
| 301-400 | 301-400 | 116-160 | 15-26 | 4-5 | University of Coimbra | | 58,7 | 53,9 | 61,8 | 8,4 | 0 |
| 401-500 | n/c | 161-198 | 27-47 | 6-7 | Universidade do Algarve | | 33,3 | 62,9 | 81,6 | 5,9 | 0 |
| 401-500 | n/c | 161-198 | 27-47 | 6-7 | University of Minho | | 33,1 | 60,2 | 75,1 | 11,8 | 0 |
| 500 | 500 | 198 | 47 | 7 | Nº IES | | | | | | |

n/c - não consta



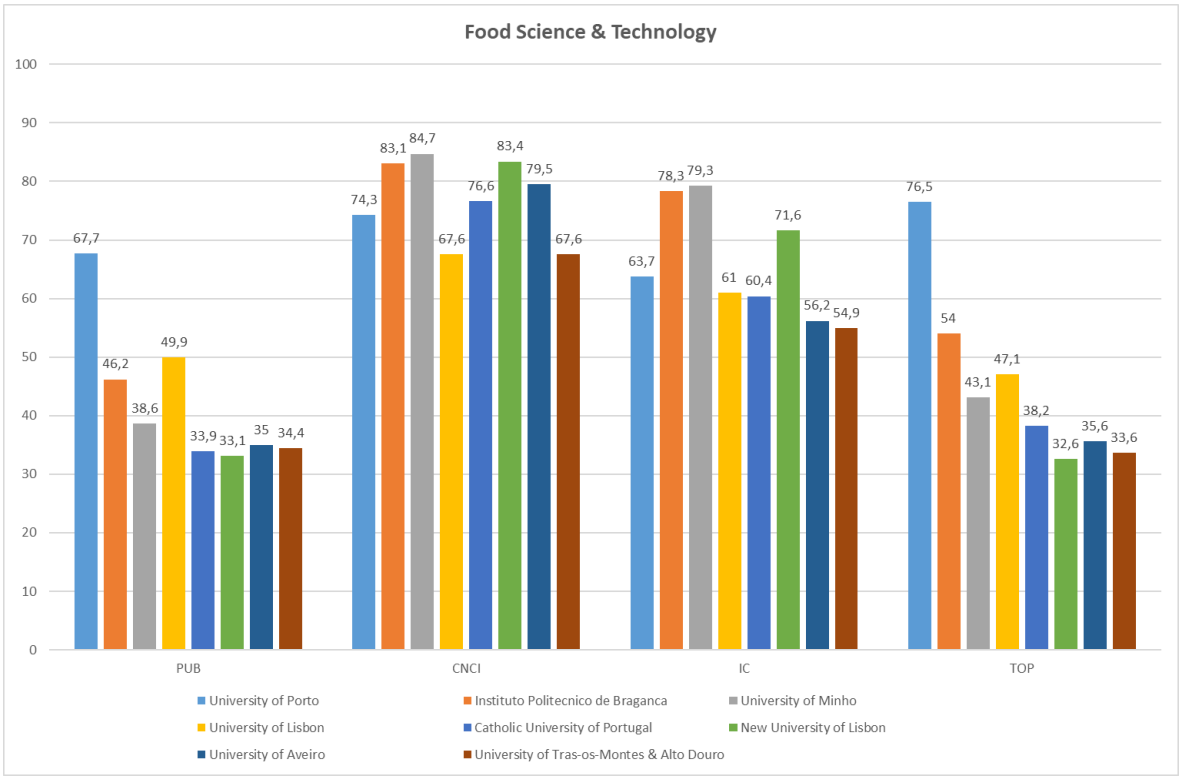
### 3.2.14 Water Resources

| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 51-75 | 18 | 17-25 | 1-2 | 1 | University of Lisbon | | 71,8 | 75,7 | 77 | 42,8 | 0 |
| n/c | 151-200 | | | | University of Porto | | | | | | |
| 200 | 200 | 74 | 9 | 1 | Nº IES | | | | | | |

### 3.2.15 Food Science & Technology

| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 11 | 3 | 3 | 1 | University of Porto | 231,3 | 67,7 | 74,3 | 63,7 | 76,5 |
| 33 | 50 | 14 | 6 | 2 | Instituto Politecnico de Braganca | 199 | 46,2 | 83,1 | 78,3 | 54 |
| 51-75 | 76-100 | 22-33 | 10-17 | 3 | University of Minho | | 38,6 | 84,7 | 79,3 | 43,1 |
| 76-100 | 51-75 | 34-42 | 18-20 | 4 | University of Lisbon | | 49,9 | 67,6 | 61 | 47,1 |
| 101-150 | 101-150 | 43-69 | 21-32 | 5-7 | Catholic University of Portugal | | 33,9 | 76,6 | 60,4 | 38,2 |
| 101-150 | 101-150 | 43-69 | 21-32 | 5-7 | New University of Lisbon | | 33,1 | 83,4 | 71,6 | 32,6 |
| 101-150 | 101-150 | 43-69 | 21-32 | 5-7 | University of Aveiro | | 35 | 79,5 | 56,2 | 35,6 |
| 201-300 | 201-300 | 90-112 | 46-61 | 8 | University of Tras-os-Montes & Alto Douro | | 34,4 | 67,6 | 54,9 | 33,6 |
| n/c | 201-300 | | | | University of Coimbra | | | | | |
| 300 | 300 | 112 | 61 | 8 | Nº IES | | | | | |

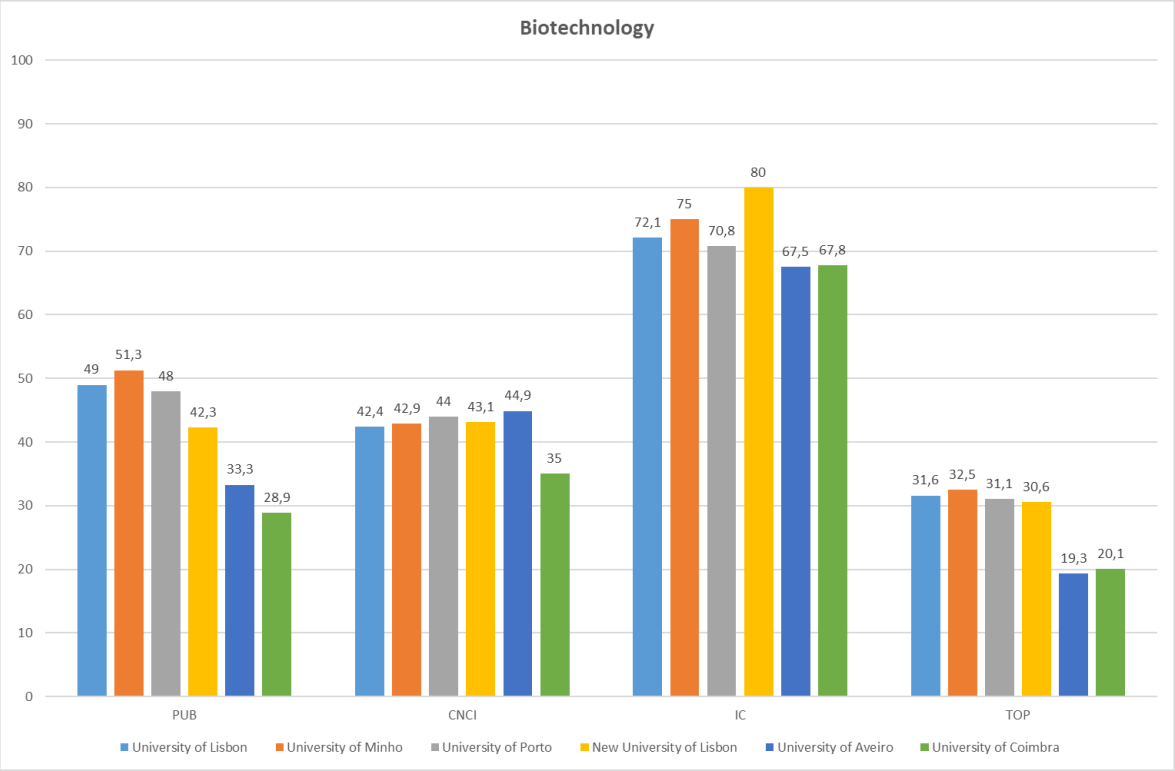
n/c - não consta



### 3.2.16 Biotechnology

| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 151-200 | 201-300 | 48-69 | 5-8 | 1-3 | University of Lisbon | | 49 | 42,4 | 72,1 | 31,6 |
| 151-200 | 151-200 | 48-69 | 5-8 | 1-3 | University of Minho | | 51,3 | 42,9 | 75 | 32,5 |
| 151-200 | 201-300 | 48-69 | 5-8 | 1-3 | University of Porto | | 48 | 44 | 70,8 | 31,1 |
| 201-300 | 151-200 | 70-115 | 9-14 | 4 | New University of Lisbon | | 42,3 | 43,1 | 80 | 30,6 |
| 301-400 | n/c | 116-153 | 15-26 | 5 | University of Aveiro | | 33,3 | 44,9 | 67,5 | 19,3 |
| 401-500 | n/c | 154-179 | 27-40 | 6 | University of Coimbra | | 28,9 | 35 | 67,8 | 20,1 |
| 500 | 300 | 179 | 40 | 6 | Nº IES | | | | | |

n/c - não consta




### 3.2.17 Aerospace Engineering

Como em 2017, não há nenhuma IES portuguesa entre as 50 listadas.

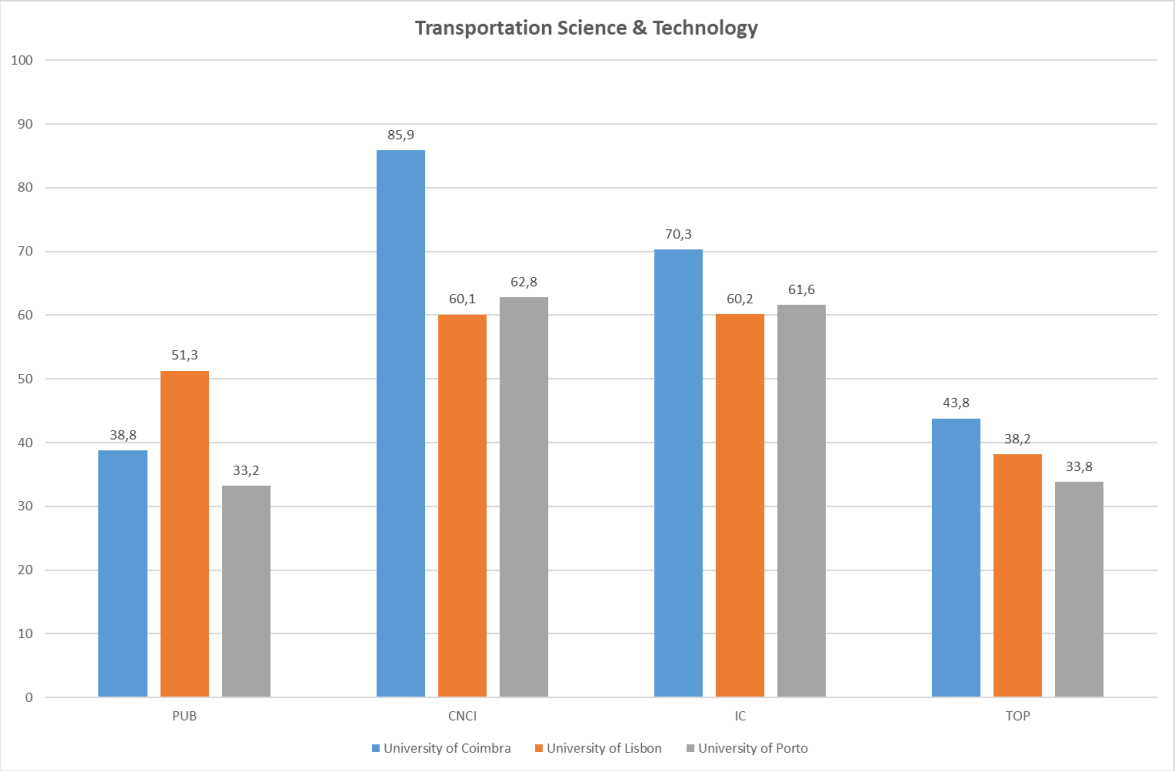
### 3.2.18 Marine/Ocean Engineering

| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 3 | 2 | 1 | 1 | University of Lisbon | 240,6 | 77,3 | 67,2 | 59,6 | 84,2 |
| 50 | 50 | 15 | 3 | 1 | Nº IES | | | | | |

### 3.2.19 Transportation Science & Technology

| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 51-75 | 76-100 | 9-17 | 1 | 1 | University of Coimbra | | 38,8 | 85,9 | 70,3 | 43,8 |
| 101-150 | 76-100 | 28-43 | 4-8 | 2 | University of Lisbon | | 51,3 | 60,1 | 60,2 | 38,2 |
| 151-200 | n/c | 44-59 | 9-11 | 3 | University of Porto | | 33,2 | 62,8 | 61,6 | 33,8 |
| 200 | 100 | 59 | 11 | 3 | Nº IES | | | | | |

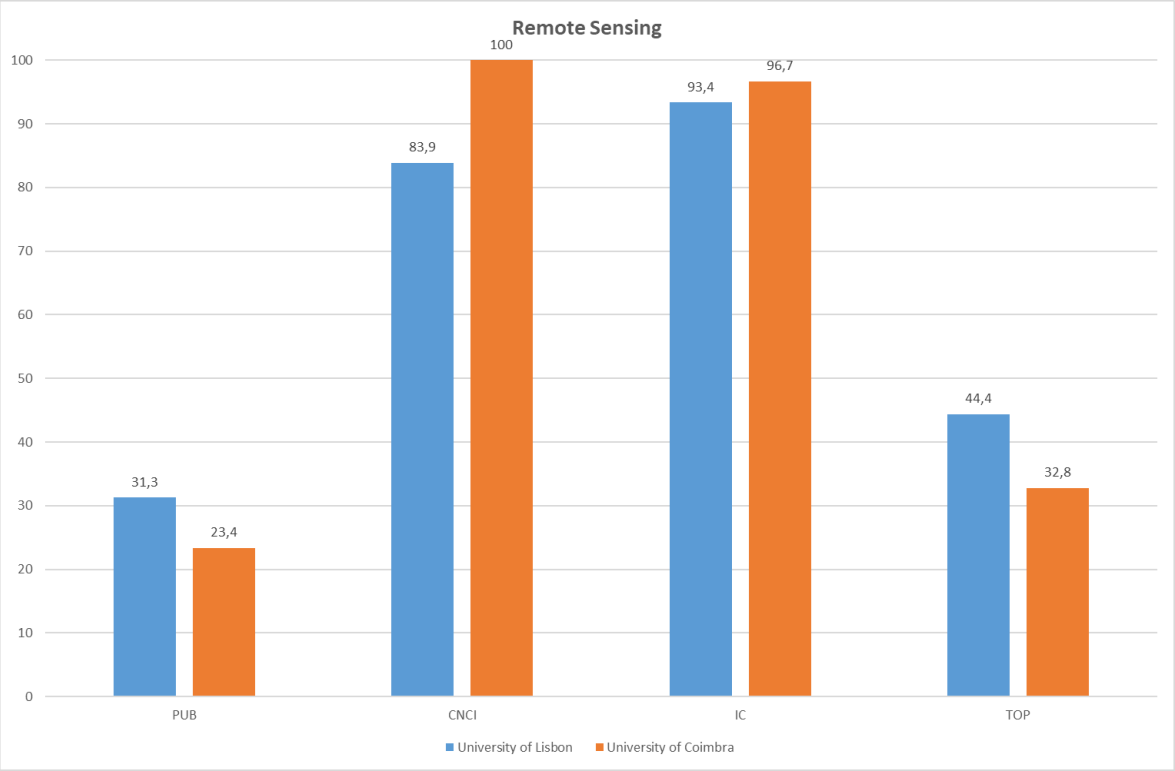
n/c - não consta



### 3.2.20 Remote Sensing

| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 8 | 4 | 1 | 1 | University of Lisbon | 178,3 | 31,3 | 83,9 | 93,4 | 44,4 |
| 11 | n/c | 5 | 2 | 2 | University of Coimbra | 175,5 | 23,4 | 100 | 96,7 | 32,8 |
| 100 | 50 | 39 | 5 | 2 | Nº IES | | | | | |

n/c - não consta




### 3.2.21 Mining & Mineral Engineering

Como em 2017, não há nenhuma IES portuguesa entre as 100 listadas (50 em 2017).

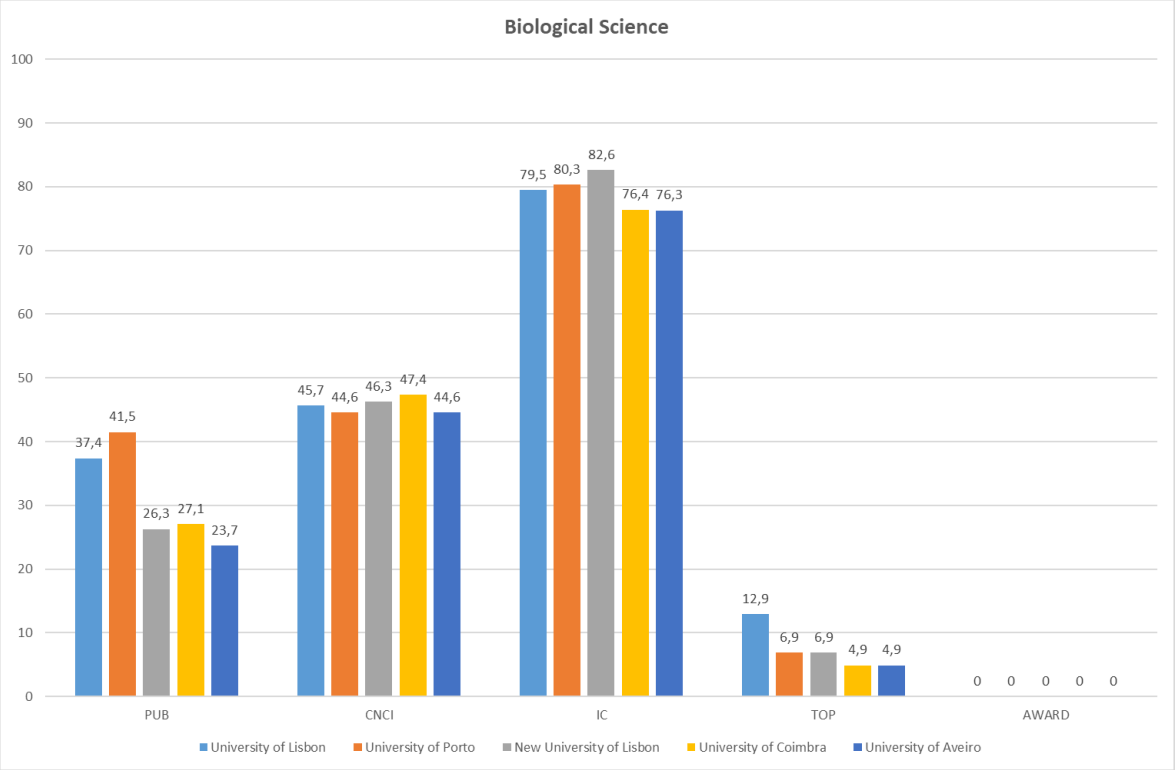
### 3.2.22 Metallurgical Engineering

Não há nenhuma IES portuguesa entre as 200 listadas. Em 2017, a U.Aveiro estava em 101-150 e Universidade de Lisboa em151-200.

## 3.3 LIFE SCIENCES

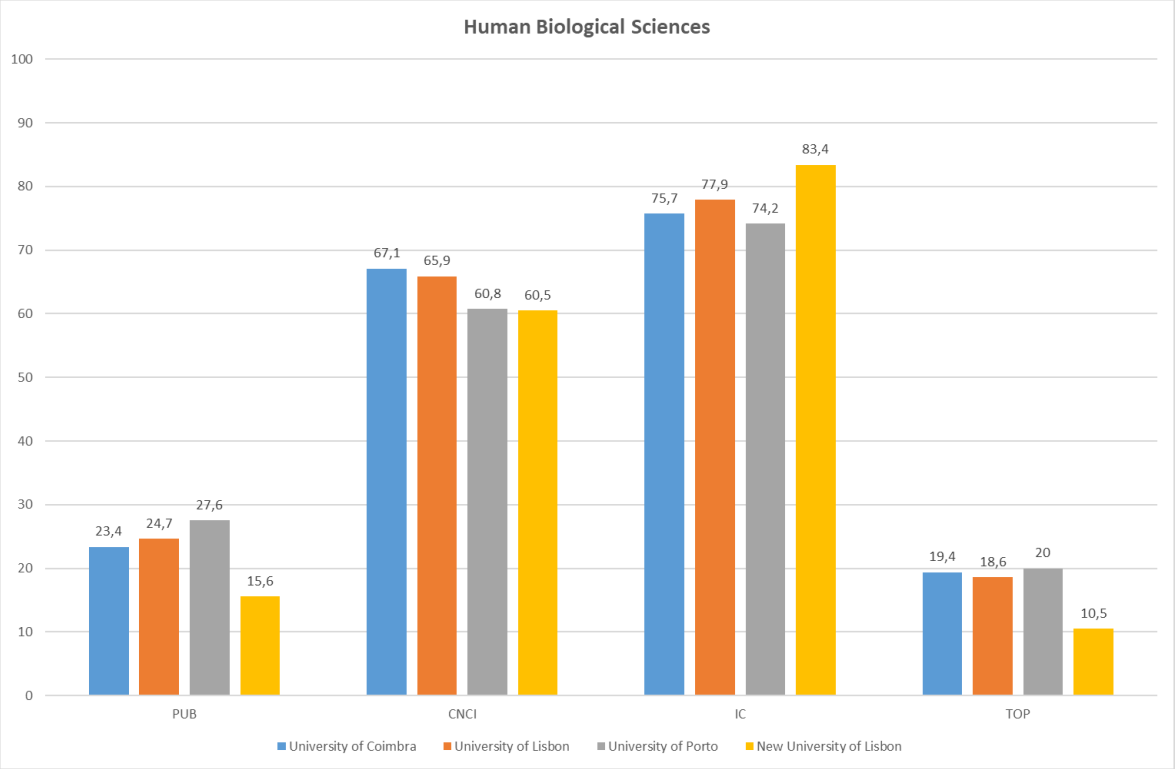
### 3.3.1 Biological Science

| World Rank 18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 151-200 | 201-300 | 70-95 | 4-5 | 1-2 | University of Lisbon | | 37,4 | 45,7 | 79,5 | 12,9 | 0 |
| 151-200 | 201-300 | 70-95 | 4-5 | 1-2 | University of Porto | | 41,5 | 44,6 | 80,3 | 6,9 | 0 |
| 301-400 | 301-400 | 137-186 | 10-22 | 3-4 | New University of Lisbon | | 26,3 | 46,3 | 82,6 | 6,9 | 0 |
| 301-400 | 301-400 | 137-186 | 10-22 | 3-4 | University of Coimbra | | 27,1 | 47,4 | 76,4 | 4,9 | 0 |
| 401-500 | 401-500 | 187-232 | 23-29 | 5 | University of Aveiro | | 23,7 | 44,6 | 76,3 | 4,9 | 0 |
| 500 | 500 | 232 | 29 | 5 | Nº IES | | | | | | |



### 3.3.2 Human Biological Sciences

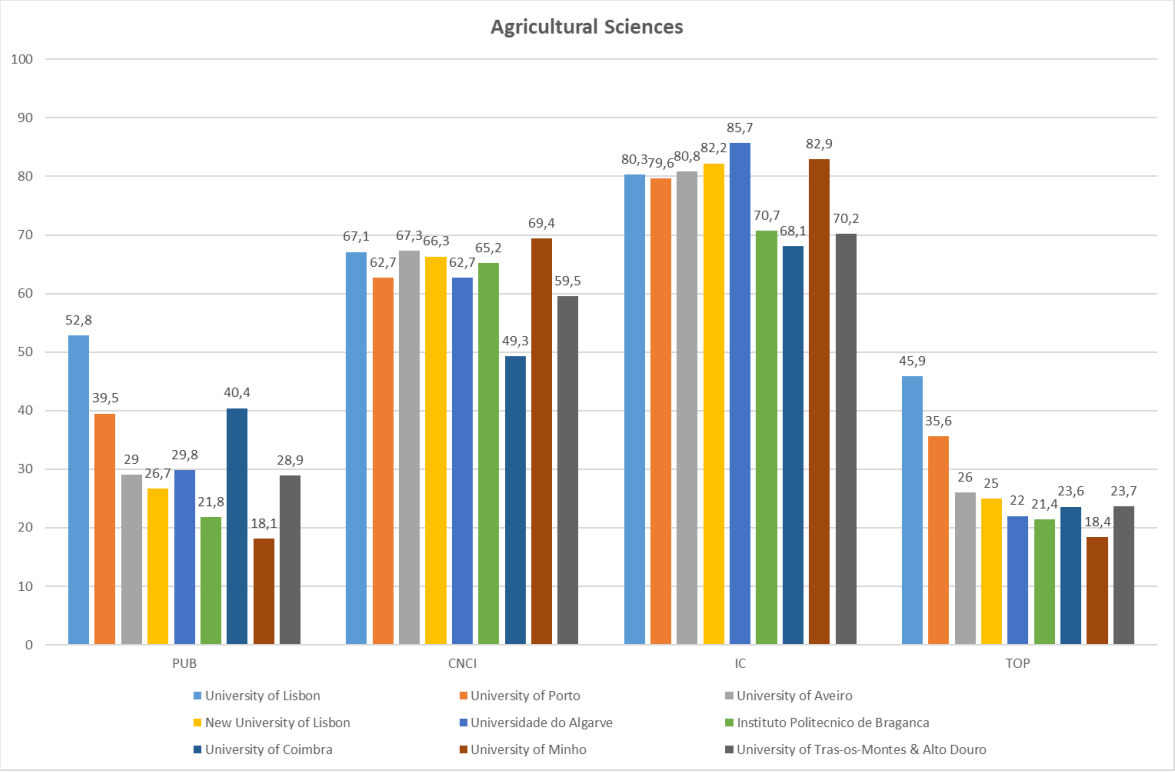
| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 201-300 | 201-300 | 96-138 | 4-11 | 1-3 | University of Coimbra | | 23,4 | 67,1 | 75,7 | 19,4 |
| 201-300 | 201-300 | 96-138 | 4-11 | 1-3 | University of Lisbon | | 24,7 | 65,9 | 77,9 | 18,6 |
| 201-300 | 201-300 | 96-138 | 4-11 | 1-3 | University of Porto | | 27,6 | 60,8 | 74,2 | 20 |
| 401-500 | 401-500 | 181-221 | 20-31 | 4 | New University of Lisbon | | 15,6 | 60,5 | 83,4 | 10,5 |
| 500 | 500 | 221 | 31 | 4 | Nº IES | | | | | |



### 3.3.3 Agricultural Sciences

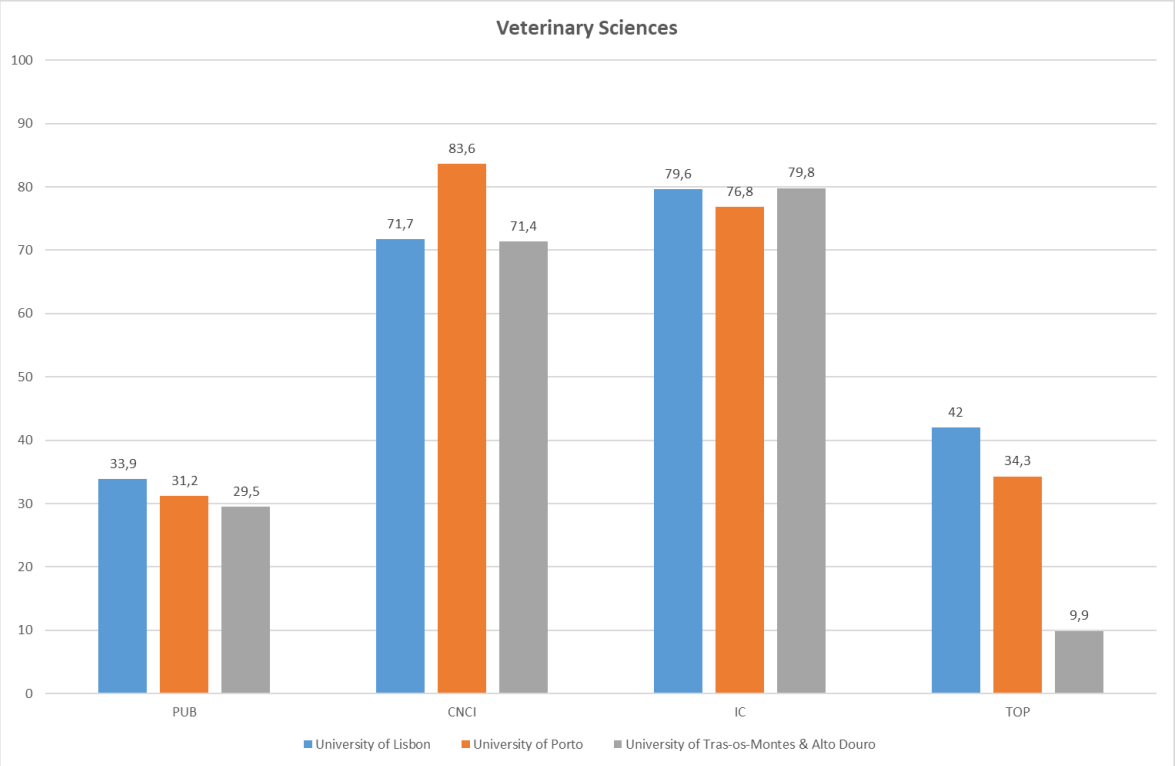
| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 51-75 | 51-75 | 14-28 | 3-8 | 1 | University of Lisbon | | 52,8 | 67,1 | 80,3 | 45,9 |
| 151-200 | 151-200 | 68-94 | 15-17 | 2 | University of Porto | | 39,5 | 62,7 | 79,6 | 35,6 |
| 201-300 | 301-400 | 95-147 | 18-29 | 3 | University of Aveiro | | 29 | 67,3 | 80,8 | 26 |
| 301-400 | 301-400 | 148-188 | 30-45 | 4-5 | New University of Lisbon | | 26,7 | 66,3 | 82,2 | 25 |
| 301-400 | 301-400 | 148-188 | 30-45 | 4-5 | Universidade do Algarve | | 29,8 | 62,7 | 85,7 | 22 |
| 401-500 | n/c | 189-231 | 46-67 | 6-9 | Instituto Politecnico de Braganca | | 21,8 | 65,2 | 70,7 | 21,4 |
| 401-500 | 301-400 | 189-231 | 46-67 | 6-9 | University of Coimbra | | 40,4 | 49,3 | 68,1 | 23,6 |
| 401-500 | n/c | 189-231 | 46-67 | 6-9 | University of Minho | | 18,1 | 69,4 | 82,9 | 18,4 |
| 401-500 | 401-500 | 189-231 | 46-67 | 6-9 | University of Tras-os-Montes & Alto Douro | | 28,9 | 59,5 | 70,2 | 23,7 |
| 500 | 500 | 231 | 67 | 9 | Nº IES | | | | | |

n/c - não consta



### 3.3.4 Veterinary Sciences

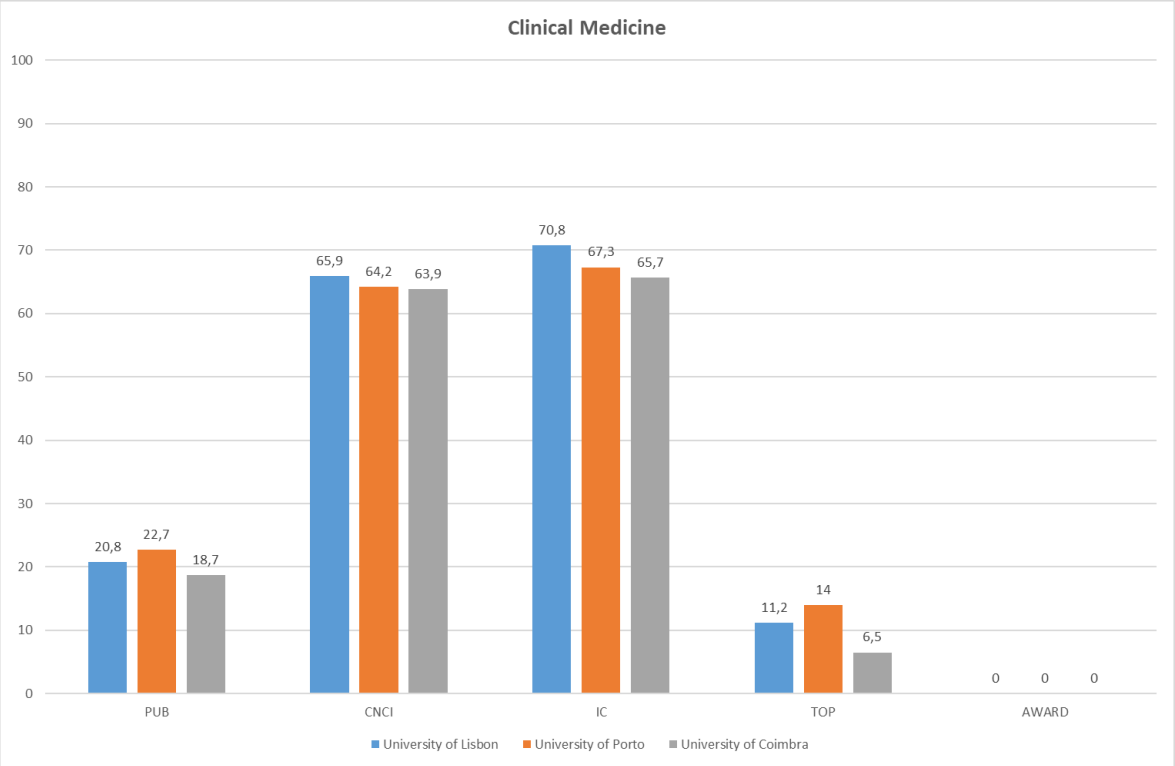
| World Rank 18 | World Rank 17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 51-75 | 101-150 | 27-37 | 6-9 | 1-2 | University of Lisbon | | 33,9 | 71,7 | 79,6 | 42 |
| 51-75 | 51-75 | 27-37 | 6-9 | 1-2 | University of Porto | | 31,2 | 83,6 | 76,8 | 34,3 |
| 151-200 | 101-150 | 74-86 | 22-29 | 3 | University of Tras-os-Montes & Alto Douro | | 29,5 | 71,4 | 79,8 | 9,9 |
| 300 | 200 | 101 | 56 | 3 | Nº IES | | | | | |



## 3.4 MEDICAL SCIENCES

### 3.4.1 Clinical Medicine

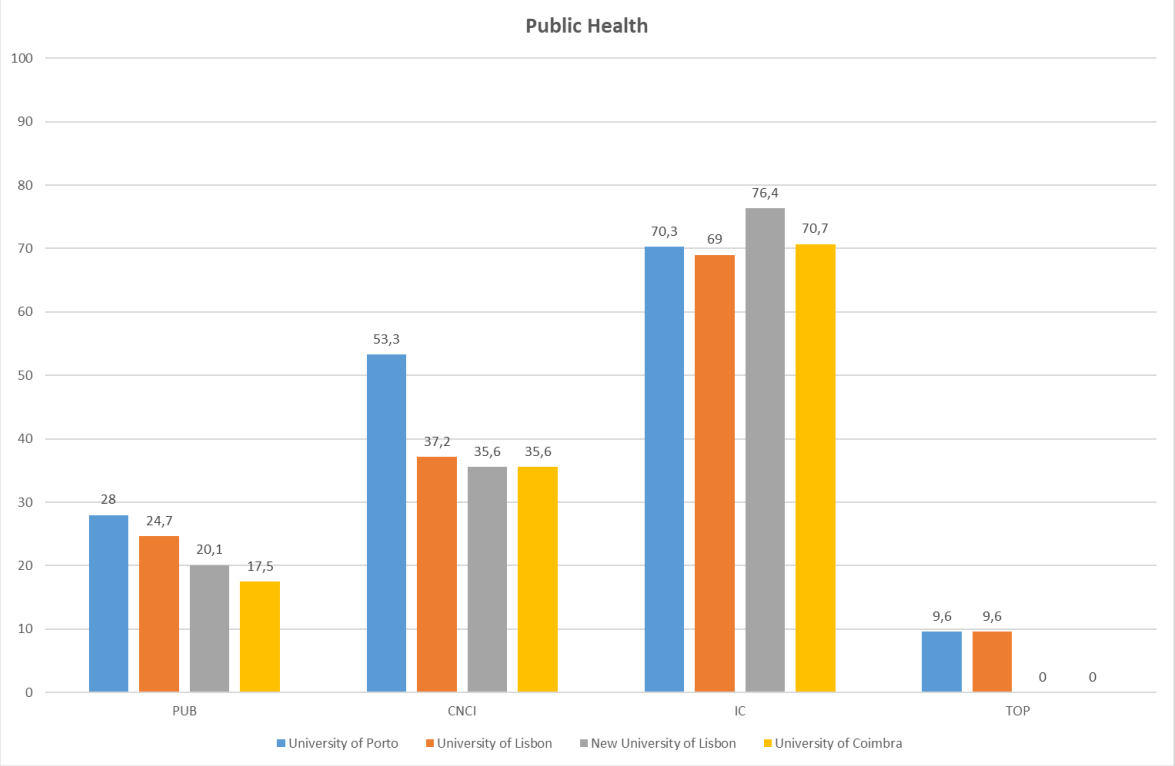
| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 301-400 | 301-400 | 149-189 | 11-21 | 1-2 | University of Lisbon | | 20,8 | 65,9 | 70,8 | 11,2 | 0 |
| 301-400 | 301-400 | 149-189 | 11-21 | 1-2 | University of Porto | | 22,7 | 64,2 | 67,3 | 14 | 0 |
| 401-500 | 401-500 | 190-230 | 21-30 | 3 | University of Coimbra | | 18,7 | 63,9 | 65,7 | 6,5 | 0 |
| 500 | 500 | 230 | 30 | 3 | Nº IES | | | | | | |



### 3.4.2 Public Health

| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 151-200 | 151-200 | 61-74 | 5-7 | 1 | University of Porto | | 28 | 53,3 | 70,3 | 9,6 |
| 301-400 | 301-400 | 118-159 | 16-28 | 2 | University of Lisbon | | 24,7 | 37,2 | 69 | 9,6 |
| 401-500 | 301-400 | 160-180 | 29-42 | 3-4 | New University of Lisbon | | 20,1 | 35,6 | 76,4 | 0 |
| 401-500 | n/c | 160-180 | 29-42 | 3-4 | University of Coimbra | | 17,5 | 35,6 | 70,7 | 0 |
| n/c | 401-500 | | | | University of Minho | | | | | |
| 500 | 500 | 180 | 42 | 4 | Nº IES | | | | | |

n/c - não consta




### 3.4.3 Dentistry & Oral Sciences

Em 2017 não havia nenhuma IES portuguesa entre as 200 listadas.

| World Rank | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|
| 201-300 | 82-118 | 19-37 | 1 | University of Porto | | 22,2 | 56,1 | 64,4 | 14,4 | 0 |
| 300 | 118 | 37 | | Nº IES | | | | | | |

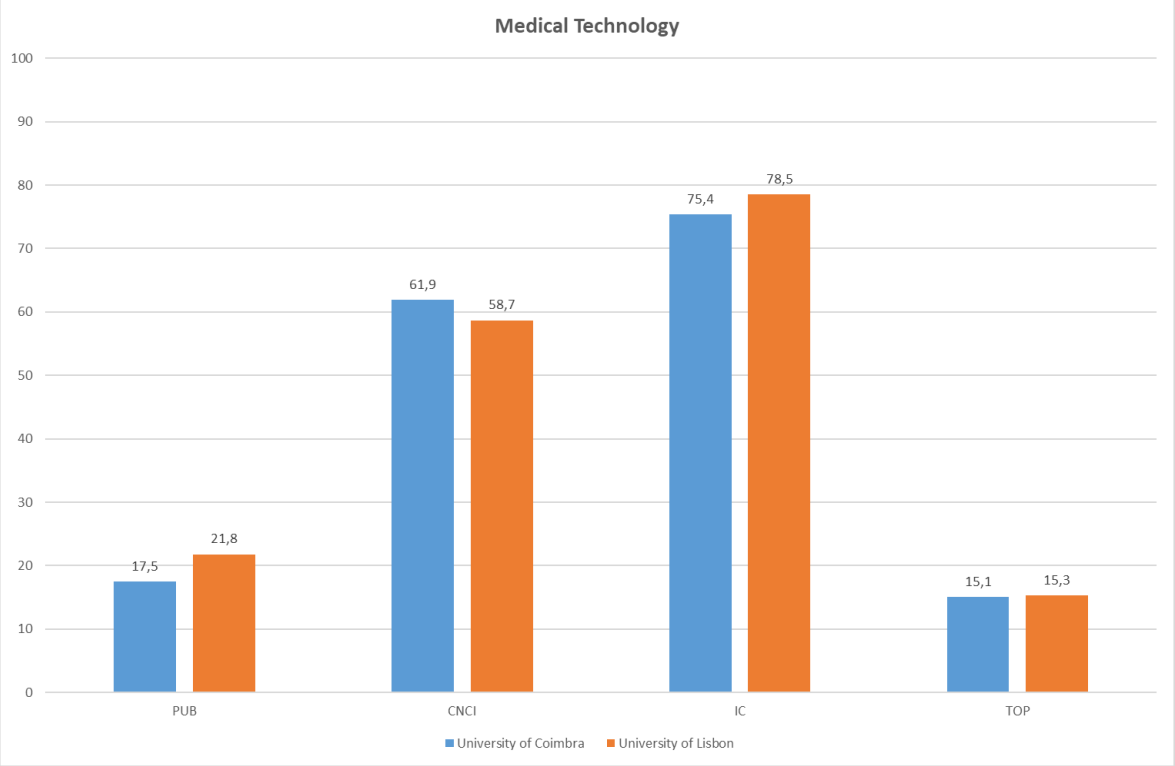
### 3.4.4 Nursing

Como em 2017 não há nenhuma IES portuguesa entre as 300 listadas (100 em 2017).

### 3.4.5 Medical Technology

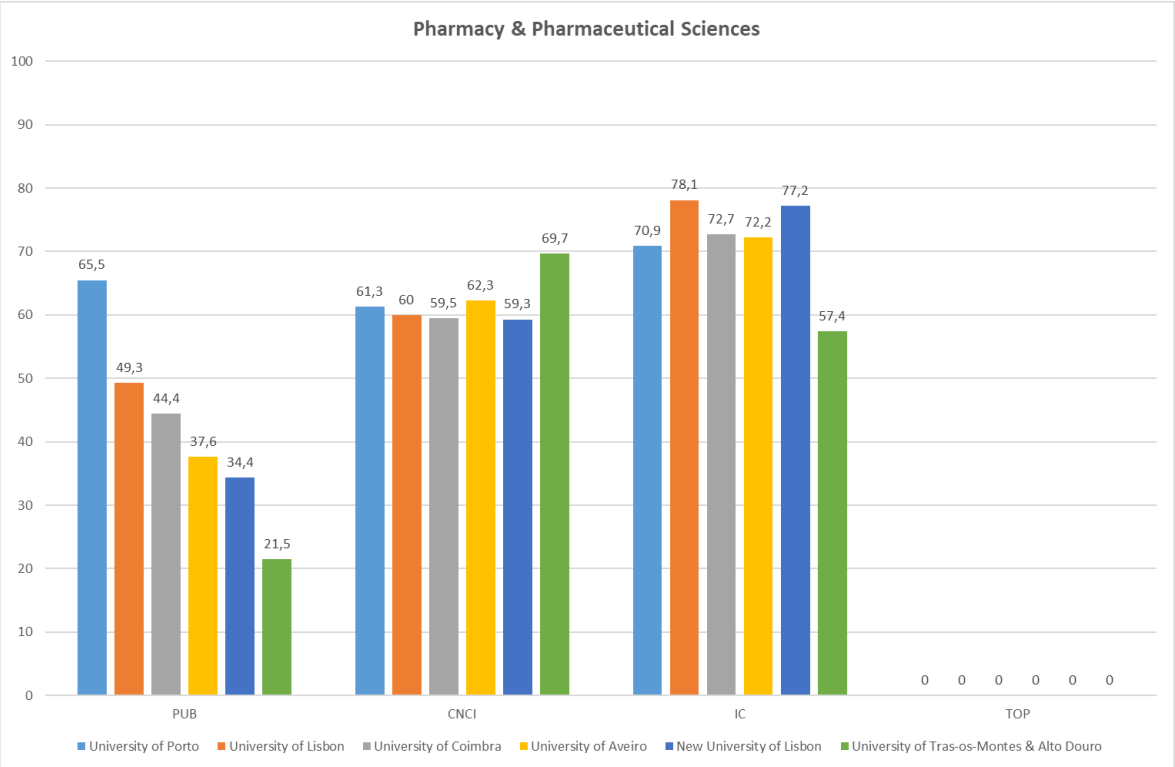
Em 2017, não havia nenhuma IES portuguesa entre as 200 listadas.

| World Rank | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|
| 201-300 | 108-147 | 6-10 | 1-2 | University of Coimbra | | 17,5 | 61,9 | 75,4 | 15,1 |
| 201-300 | 108-147 | 6-10 | 1-2 | University of Lisbon | | 21,8 | 58,7 | 78,5 | 15,3 |
| 300 | 147 | 10 | 2 | | | | | | |



### 3.4.6 Pharmacy & Pharmaceutical Sciences

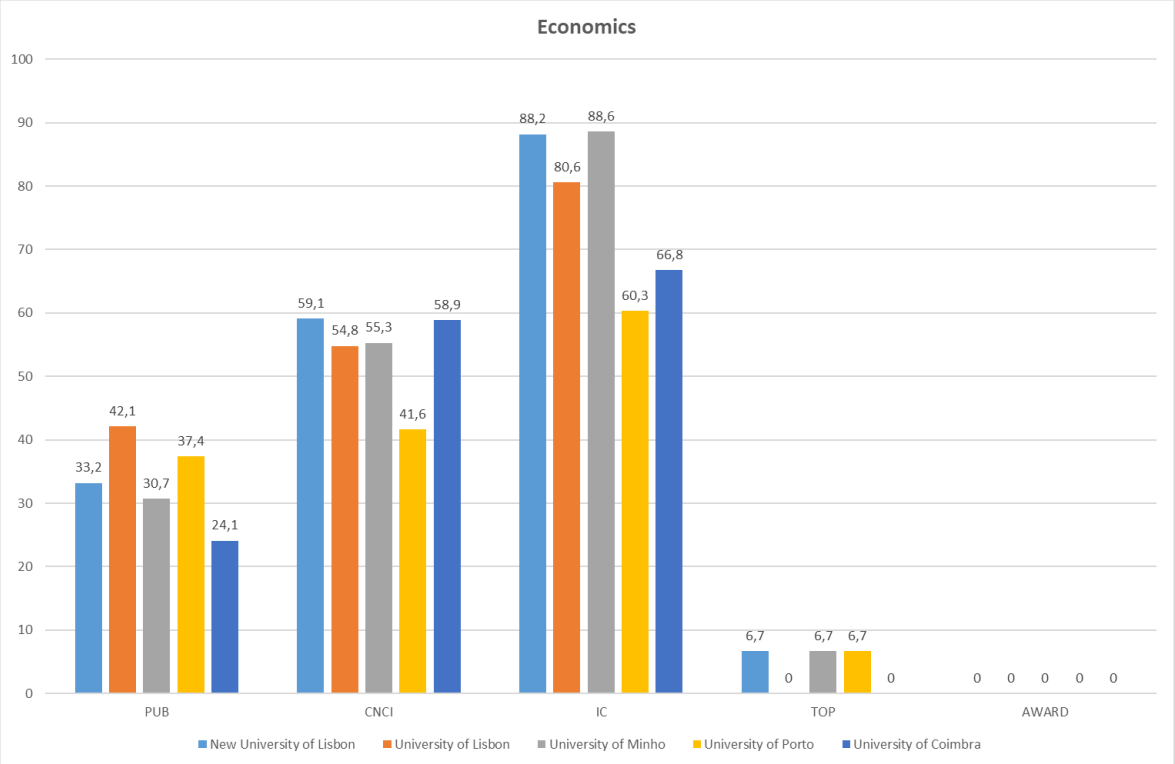
| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 51-75 | 76-100 | 36-43 | 2-3 | 1 | University of Porto | | 65,5 | 61,3 | 70,9 | 0 |
| 101-150 | 151-200 | 54-74 | 4-6 | 2 | University of Lisbon | | 49,3 | 60 | 78,1 | 0 |
| 151-200 | 201-300 | 75-100 | 7-11 | 3 | University of Coimbra | | 44,4 | 59,5 | 72,7 | 0 |
| 201-300 | 201-300 | 101-135 | 12-20 | 4 | University of Aveiro | | 37,6 | 62,3 | 72,2 | 0 |
| 301-400 | 301-400 | 136-175 | 21-27 | 5 | New University of Lisbon | | 34,4 | 59,3 | 77,2 | 0 |
| 401-500 | 401-500 | 176-206 | 28-36 | 6 | University of Tras-os-Montes & Alto Douro | | 21,5 | 69,7 | 57,4 | 0 |
| 500 | 500 | 206 | 36 | 6 | Nº IES | | | | | |



## 3.5 SOCIAL SCIENCES

### 3.5.1 Economics

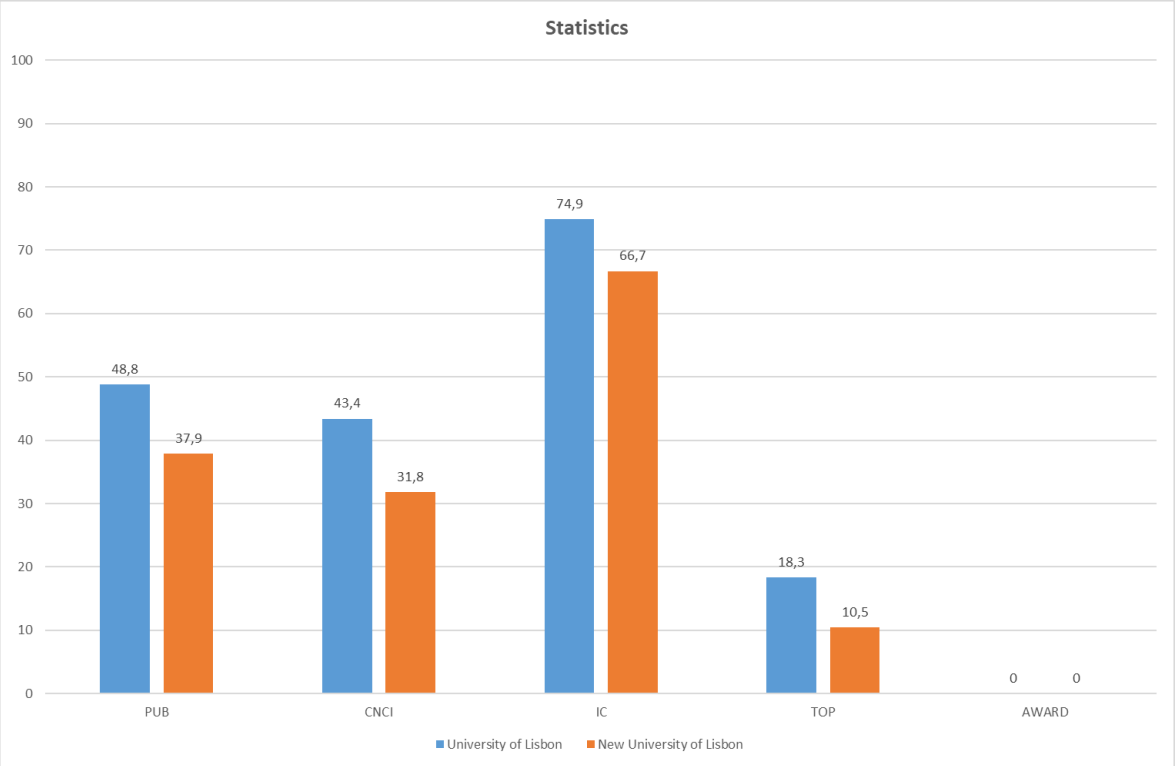
| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 201-300 | 201-300 | 92-142 | 6-15 | 1-4 | New University of Lisbon | | 33,2 | 59,1 | 88,2 | 6,7 | 0 |
| 201-300 | 201-300 | 92-142 | 6-15 | 1-4 | University of Lisbon | | 42,1 | 54,8 | 80,6 | 0 | 0 |
| 201-300 | 201-300 | 92-142 | 6-15 | 1-4 | University of Minho | | 30,7 | 55,3 | 88,6 | 6,7 | 0 |
| 201-300 | n/c | 92-142 | 6-15 | 1-4 | University of Porto | | 37,4 | 41,6 | 60,3 | 6,7 | 0 |
| 401-500 | n/c | 196-236 | 25-33 | 5 | University of Coimbra | | 24,1 | 58,9 | 66,8 | 0 | 0 |
| 500 | 300 | 236 | 33 | 5 | Nº IES | | | | | | |



### 3.5.2 Statistics

| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 101-150 | 101-150 | 31-50 | 1-4 | 1 | University of Lisbon | | 48,8 | 43,4 | 74,9 | 18,3 | 0 |
| 151-200 | n/c | 51-82 | 5-10 | 2 | New University of Lisbon | | 37,9 | 31,8 | 66,7 | 10,5 | 0 |
| 200 | 200 | 82 | 10 | 2 | Nº IES | | | | | | |

n/c - não consta



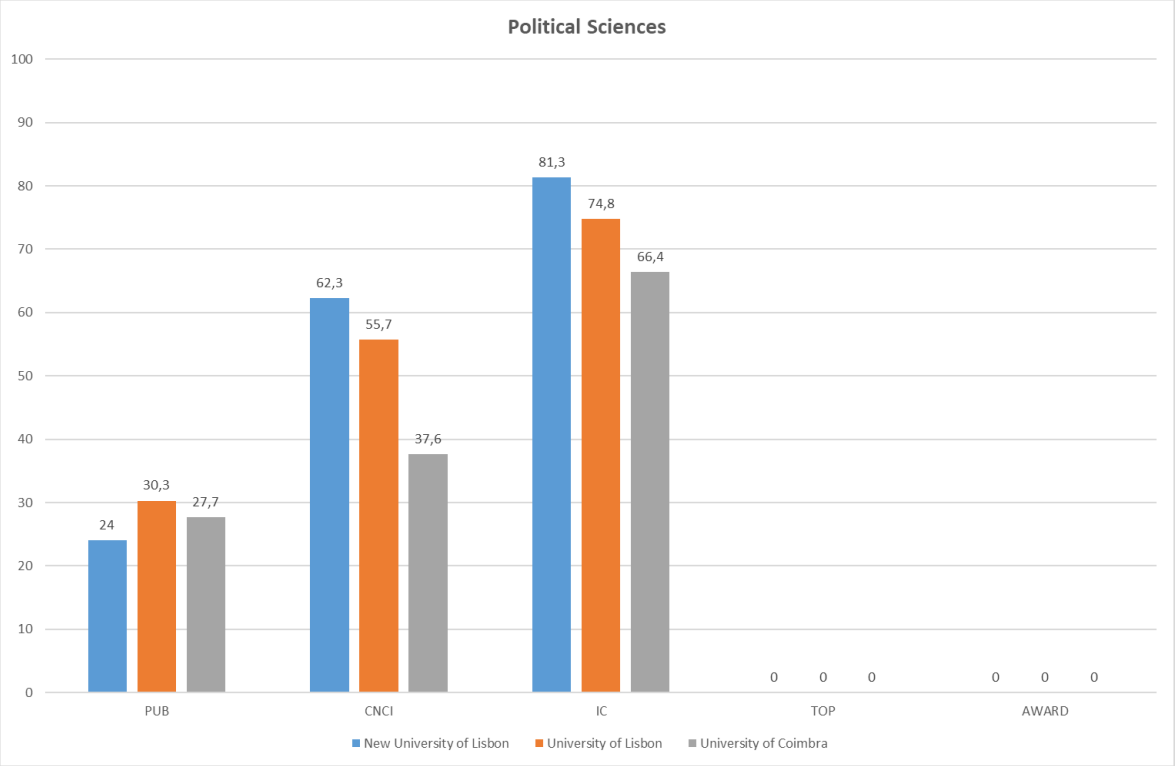

### 3.5.3 Law

Como em 2017, não há nenhuma IES portuguesa entre as 200 listadas (100, em 2017).

### 3.5.4 Political Sciences

Em 2017, não havia nenhuma IES portuguesa entre as 200 listadas.

| World Rank | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|
| 201-300 | 85-133 | 2-11 | 1-2 | New University of Lisbon | | 24 | 62,3 | 81,3 | 0 | 0 |
| 201-300 | 85-133 | 2-11 | 1-2 | University of Lisbon | | 30,3 | 55,7 | 74,8 | 0 | 0 |
| 301-400 | 134-173 | 12-20 | 3 | University of Coimbra | | 27,7 | 37,6 | 66,4 | 0 | 0 |
| 400 | 173 | 20 | 3 | Nº IES | | | | | | |



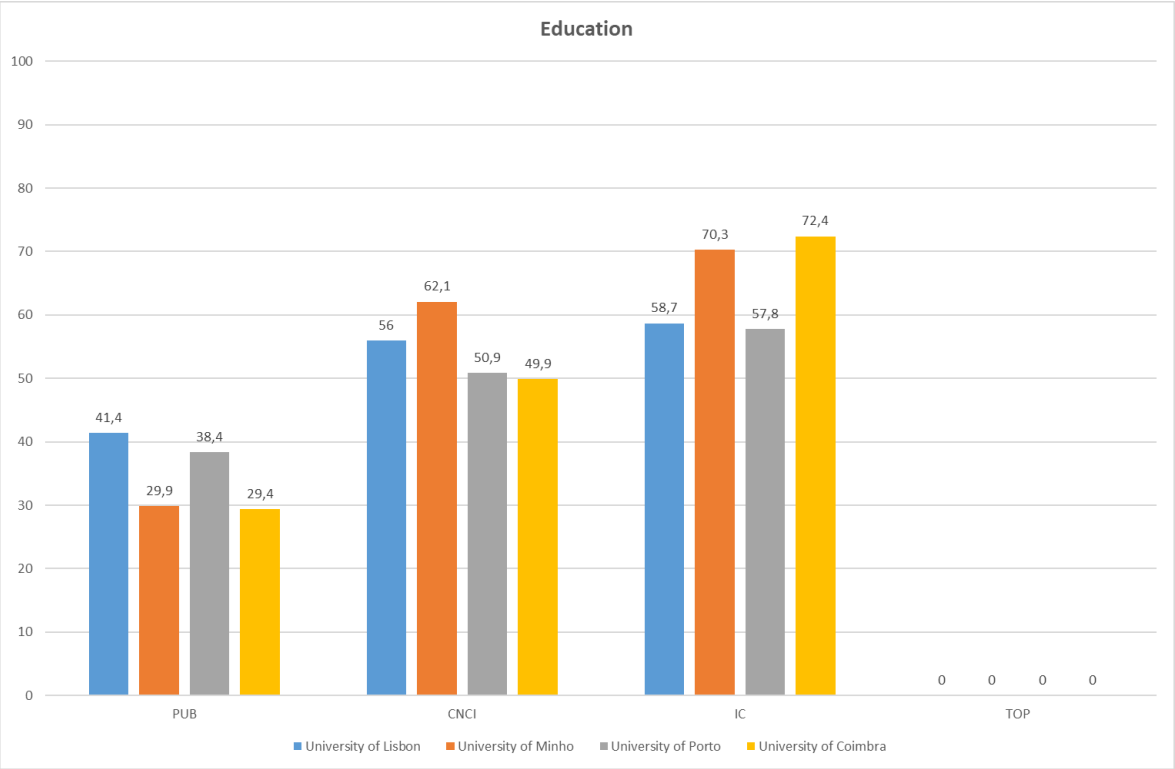

### 3.5.5 Sociology

Como em 2017, não há nenhuma IES portuguesa entre as 200 listadas (100, em 2017).

### 3.5.6 Education

Em 2017, não havia nenhuma IES portuguesa entre as 300 listadas.

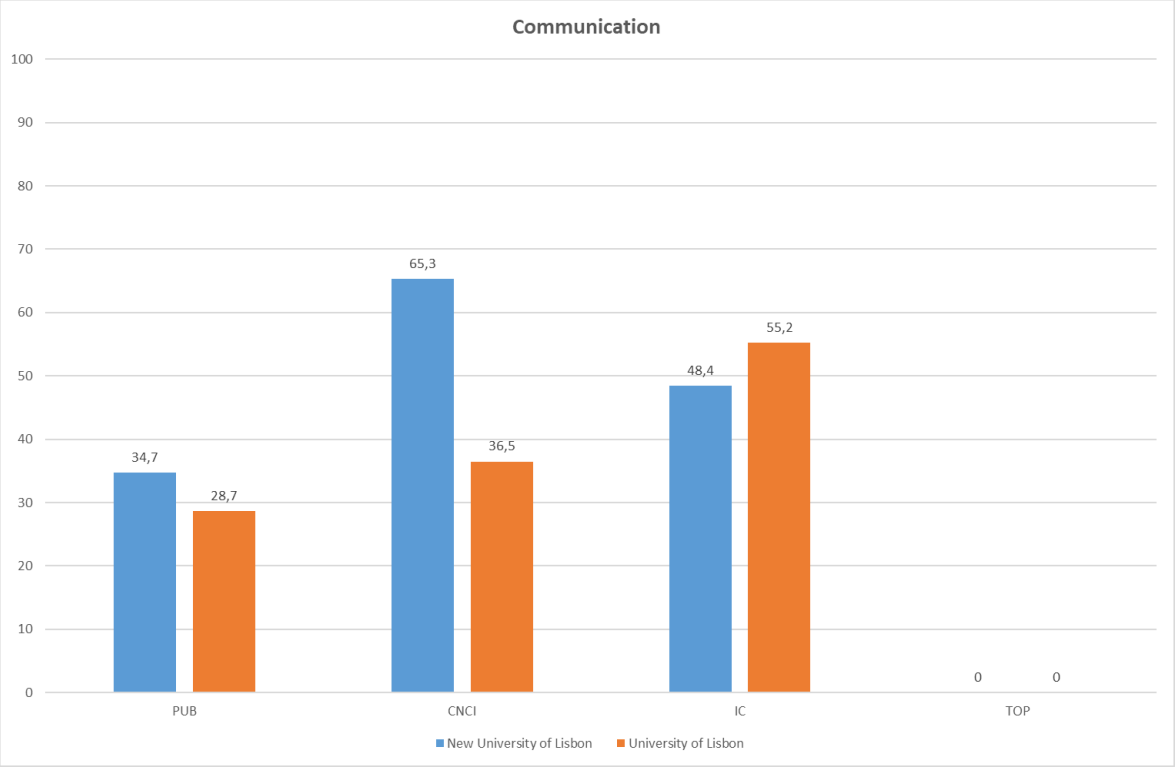
| World Rank | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|
| 201-300 | 47-79 | 2-6 | 1 | University of Lisbon | | 41,4 | 56 | 58,7 | 0 |
| 301-400 | 80-120 | 7-16 | 2-3 | University of Minho | | 29,9 | 62,1 | 70,3 | 0 |
| 301-400 | 80-120 | 7-16 | 2-3 | University of Porto | | 38,4 | 50,9 | 57,8 | 0 |
| 401-500 | 121-171 | 17-27 | 4 | University of Coimbra | | 29,4 | 49,9 | 72,4 | 0 |
| 500 | 171 | 27 | 4 | Nº IES | | | | | |



### 3.5.7 Communication

Em 2017, não havia nenhuma IES portuguesa entre as 100 listadas.

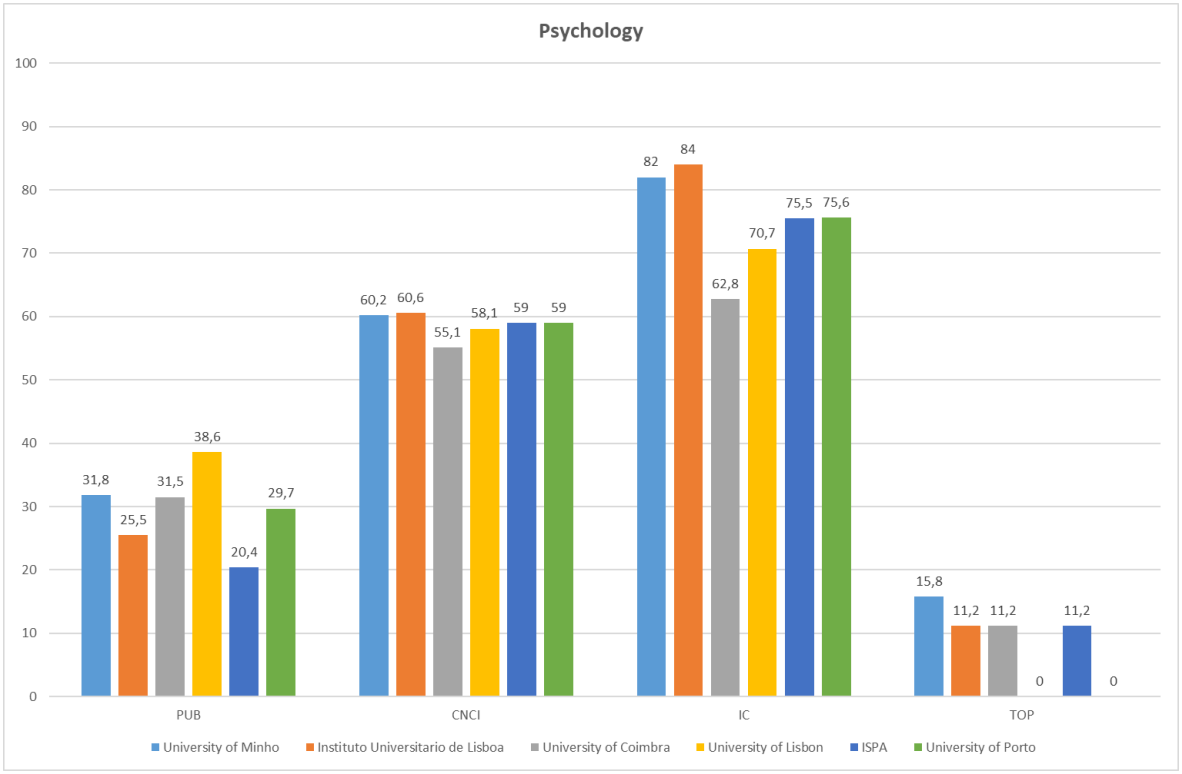
| World Rank | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|
| 201-300 | 63-105 | 4-10 | 1-2 | New University of Lisbon | | 34,7 | 65,3 | 48,4 | 0 |
| 201-300 | 63-105 | 4-10 | 1-2 | University of Lisbon | | 28,7 | 36,5 | 55,2 | 0 |
| 300 | 105 | 10 | 2 | Nº IES | | | | | |



### 3.5.8 Psychology

| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 201-300 | 201-300 | 75-117 | 5-7 | 1 | University of Minho | | 31,8 | 60,2 | 82 | 15,8 |
| 301-400 | 201-300 | 118-163 | 8-14 | 2-4 | Instituto Universitario de Lisboa | | 25,5 | 60,6 | 84 | 11,2 |
| 301-400 | n/c | 118-163 | 8-14 | 2-4 | University of Coimbra | | 31,5 | 55,1 | 62,8 | 11,2 |
| 301-400 | 201-300 | 118-163 | 8-14 | 2-4 | University of Lisbon | | 38,6 | 58,1 | 70,7 | 0 |
| 401-500 | n/c | 164-211 | 15-20 | 5-6 | ISPA | | 20,4 | 59 | 75,5 | 11,2 |
| 401-500 | n/c | 164-211 | 15-20 | 5-6 | University of Porto | | 29,7 | 59 | 75,6 | 0 |
| 500 | 300 | 211 | 20 | 6 | Nº IES | | | | | |

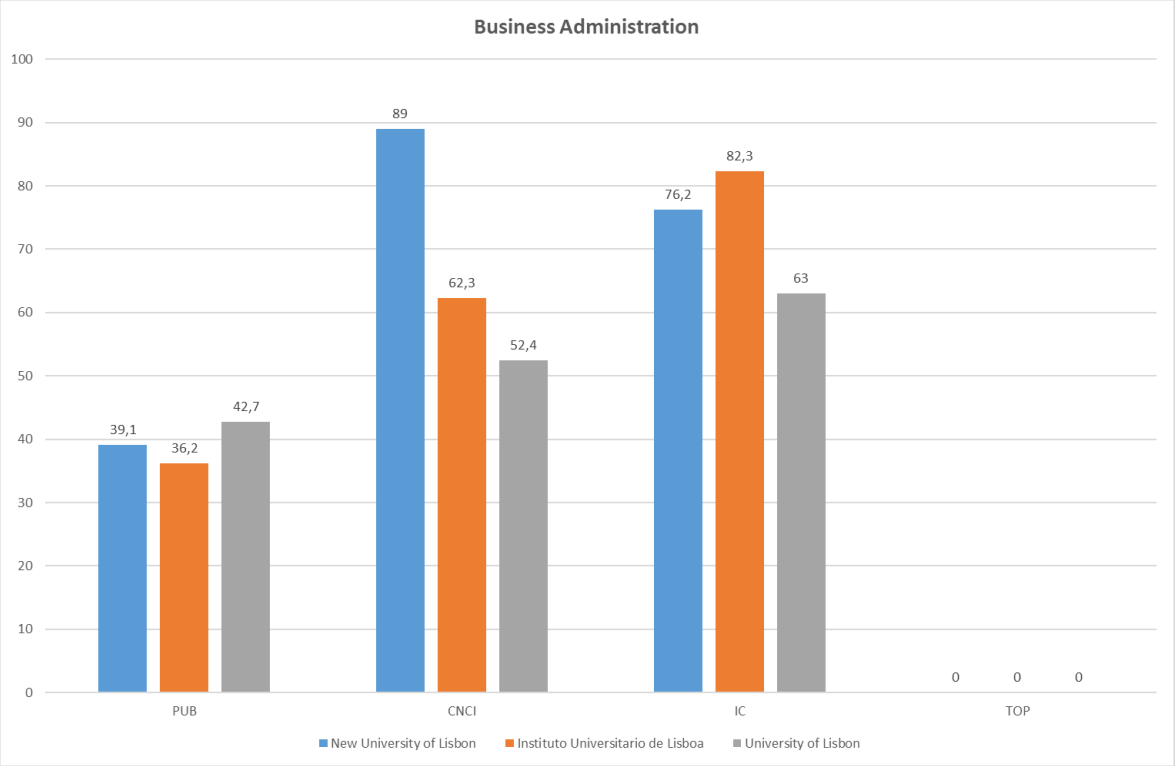
n/c - não consta



### 3.5.9 Business Administration

Em 2017, não havia nenhuma IES portuguesa entre as 200 listadas.

| World Rank | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|
| 201-300 | 61-107 | 4-11 | 1 | New University of Lisbon | | 39,1 | 89 | 76,2 | 0 |
| 301-400 | 108-163 | 12-24 | 2-3 | Instituto Universitario de Lisboa | | 36,2 | 62,3 | 82,3 | 0 |
| 301-400 | 108-163 | 12-24 | 2-3 | University of Lisbon | | 42,7 | 52,4 | 63 | 0 |
| 400 | 163 | 24 | 3 | Nº IES | | | | | |



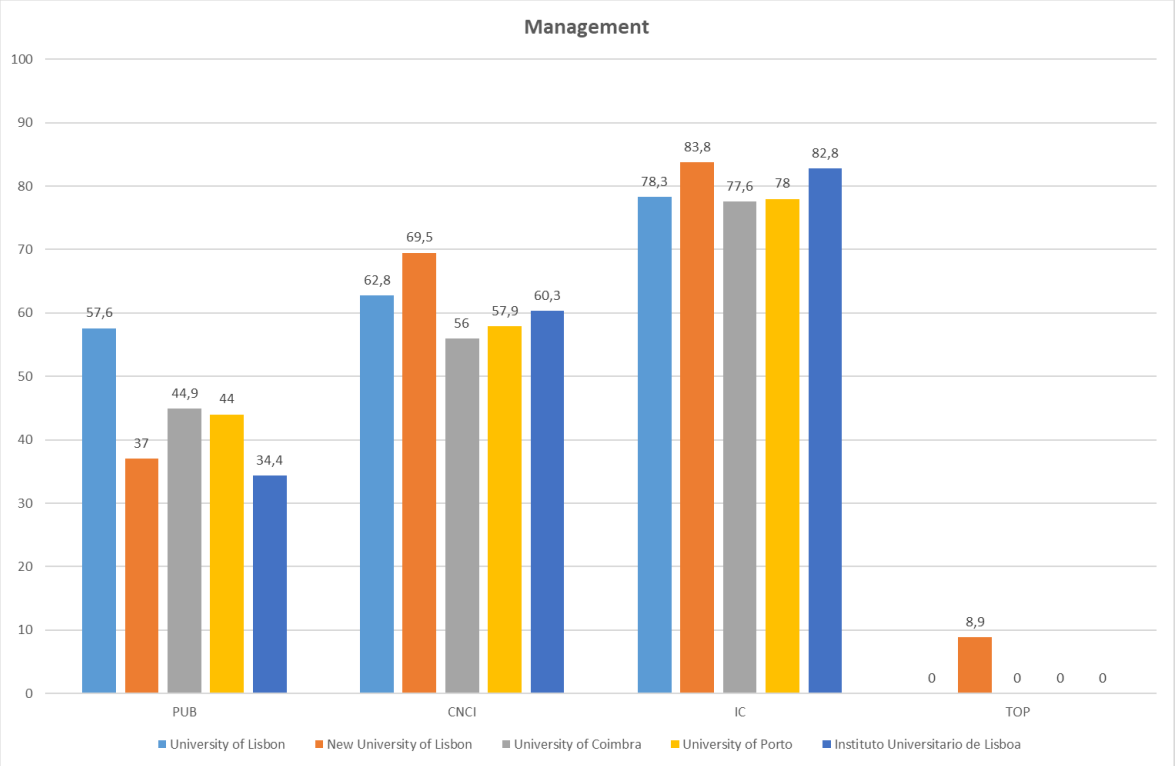

### 3.5.10 Finance

Como em 2017, não há nenhuma IES portuguesa entre as 200 listadas.

### 3.5.11 Management

| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP |
|---|---|---|---|---|---|---|---|---|---|---|
| 151-200 | 201-300 | 50-69 | 4-7 | 1 | University of Lisbon | | 57,6 | 62,8 | 78,3 | 0 |
| 201-300 | 201-300 | 70-104 | 8-17 | 2 | New University of Lisbon | | 37 | 69,5 | 83,8 | 8,9 |
| 301-400 | 301-400 | 105-148 | 18-24 | 3-4 | University of Coimbra | | 44,9 | 56 | 77,6 | 0 |
| 301-400 | 301-400 | 105-148 | 18-24 | 3-4 | University of Porto | | 44 | 57,9 | 78 | 0 |
| 401-500 | n/c | 149-190 | 25-34 | 5 | Instituto Universitario de Lisboa | | 34,4 | 60,3 | 82,8 | 0 |
| 500 | 400 | 190 | 34 | 5 | Nº IES | | | | | |

n/c - não consta




### 3.5.12 Public Administration

Como em 2017, não há nenhuma IES portuguesa entre as 200 listadas (100, em 2017).

### 3.5.13 Hospitality & Tourism Management

| World Rank18 | World Rank17 | Euro Rank | IbAm Rank | PT Rank | Institution | Total Score | PUB | CNCI | IC | TOP | AWARD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 76-100 | 76-100 | 19-32 | 5-6 | 1 | University of Lisbon | | 36 | 55,5 | 81,2 | 16,4 | 0 |
| 101-150 | n/c | 33-55 | 7-10 | 2 | Universidade do Algarve | | 31,3 | 60,8 | 66,1 | 22,2 | 0 |
| 200 | 100 | 74 | 12 | 2 | Nº IES | | | | | | |

n/c - não consta

### 3.5.14 Library & Information Science

Como em 2017, não há nenhuma IES portuguesa entre as 100 listadas.

## 3.6 RESUMO

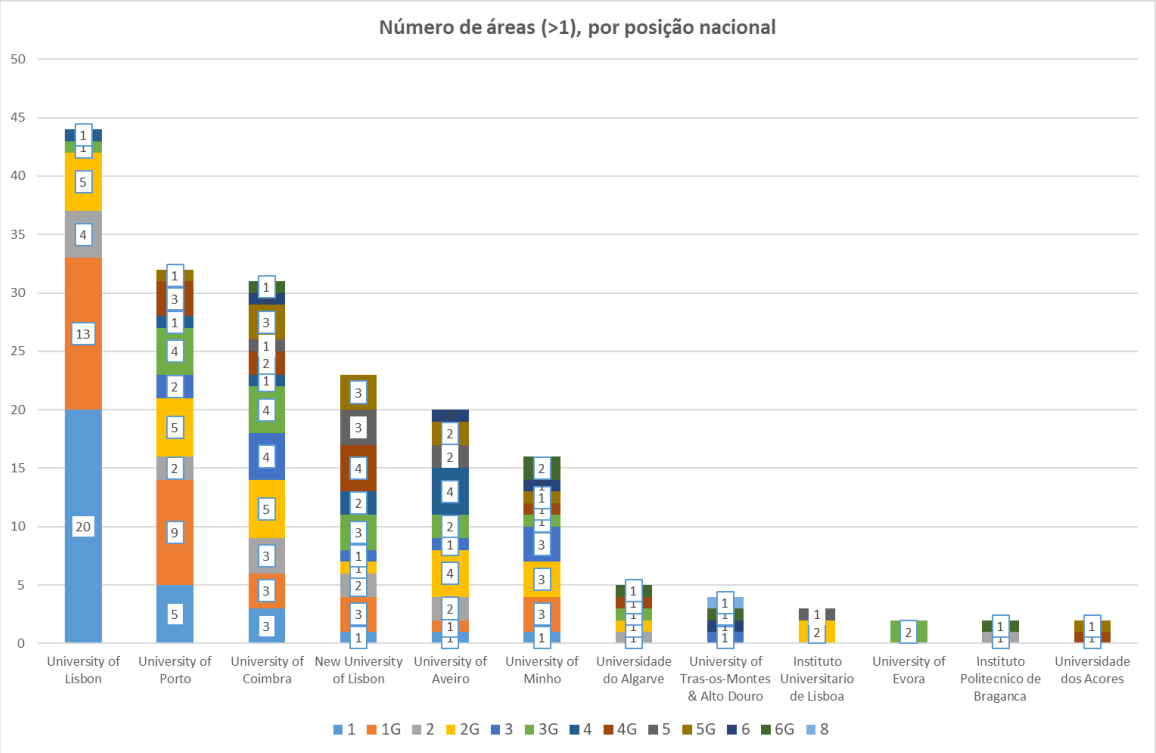
Apresenta-se em resumo as IES portuguesas presentes no ShanghaiRanking's Global Ranking of Academic Subjects 2018, indicando o número de áreas em que são listadas e a posição em que surgem a nível nacional.

| | 1 | 1G | 2 | 2G | 3 | 3G | 4 | 4G | 5 | 5G | 6 | 6G | 8 | Total Áreas |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| University of Lisbon | 20 | 13 | 4 | 5 | | 1 | 1 | | | | | | | 44 |
| University of Porto | 5 | 9 | 2 | 5 | 2 | 4 | 1 | 3 | | 1 | | | | 32 |
| University of Coimbra | 3 | 3 | 3 | 5 | 4 | 4 | 1 | 2 | 1 | 3 | 1 | 1 | | 31 |
| New University of Lisbon | 1 | 3 | 2 | 1 | 1 | 3 | 2 | 4 | 3 | 3 | | | | 23 |
| University of Aveiro | 1 | 1 | 2 | 4 | 1 | 2 | 4 | | 2 | 2 | 1 | | | 20 |
| University of Minho | 1 | 3 | | 3 | 3 | 1 | | 1 | | 1 | 1 | 2 | | 16 |
| Universidade do Algarve | | | 1 | 1 | | 1 | | 1 | | | | 1 | | 5 |
| University of Tras-os-Montes & Alto Douro | | | | | 1 | | | | | | 1 | 1 | 1 | 4 |
| Instituto Universitario de Lisboa | | | | 2 | | | | | 1 | | | | | 3 |
| University of Evora | | | | | | 2 | | | | | | | | 2 |
| Instituto Politecnico de Braganca | | | 1 | | | | | | | | | 1 | | 2 |
| Universidade dos Acores | | | | | | | | 1 | | 1 | | | | 2 |
| University of Beira Interior | | | | | | | | 1 | | | | | | 1 |
| Catholic University of Portugal | | | | | | | | | | 1 | | | | 1 |
| ISPA | | | | | | | | | | 1 | | | | 1 |

Legenda:

1, 2, … - 1ª, 2ª, … posição isolada

1G, 2G, … 1ª, 2ª, … posição em grupo



# 4. Anexos

## 4.1 Mapping between Web of Science categories and 54 academic subjects

### “Mapping between Web of Science categories and 54 academic subjects

| Academic Subjects | Web of Science Categories |
|---|---|
| Mathematics | MATHEMATICS |
| Mathematics | MATHEMATICS, APPLIED |
| Physics | ACOUSTICS |
| Physics | ASTRONOMY & ASTROPHYSICS |
| Physics | OPTICS |
| Physics | PHYSICS, APPLIED |
| Physics | PHYSICS, ATOMIC, MOLECULAR & CHEMICAL |
| Physics | PHYSICS, CONDENSED MATTER |
| Physics | PHYSICS, FLUIDS & PLASMAS |
| Physics | PHYSICS, MATHEMATICAL |
| Physics | PHYSICS, MULTIDISCIPLINARY |
| Physics | PHYSICS, NUCLEAR |
| Physics | PHYSICS, PARTICLES & FIELDS |
| Chemistry | CHEMISTRY, ANALYTICAL |
| Chemistry | CHEMISTRY, APPLIED |
| Chemistry | CHEMISTRY, INORGANIC & NUCLEAR |
| Chemistry | CHEMISTRY, MULTIDISCIPLINARY |
| Chemistry | CHEMISTRY, ORGANIC |
| Chemistry | CHEMISTRY, PHYSICAL |
| Chemistry | CRYSTALLOGRAPHY |
| Chemistry | ELECTROCHEMISTRY |
| Chemistry | SPECTROSCOPY |
| Chemistry | POLYMER SCIENCE |
| Earth Sciences | GEOCHEMISTRY & GEOPHYSICS |
| Earth Sciences | GEOLOGY |
| Earth Sciences | GEOSCIENCES, MULTIDISCIPLINARY |
| Earth Sciences | MINERALOGY |
| Earth Sciences | PALEONTOLOGY |
| Geography | AREA STUDIES |
| Geography | GEOGRAPHY |
| Geography | GEOGRAPHY, PHYSICAL |
| Ecology | BIODIVERSITY CONSERVATION |
| Ecology | ECOLOGY |
| Oceanography | OCEANOGRAPHY |
| Atmospheric Science | METEOROLOGY & ATMOSPHERIC SCIENCES |
| Mechanical Engineering | ENGINEERING, MANUFACTURING |
| Mechanical Engineering | ENGINEERING, MECHANICAL |
| Electrical & Electronic Engineering | ENGINEERING, ELECTRICAL & ELECTRONIC |
| Electrical & Electronic Engineering | IMAGING SCIENCE & PHOTOGRAPHIC TECHNOLOGY |
| Automation & Control | AUTOMATION & CONTROL SYSTEMS |
| Automation & Control | ROBOTICS |
| Telecommunication Engineering | TELECOMMUNICATIONS |
| Instruments Science & Technology | INSTRUMENTS & INSTRUMENTATION |
| Instruments Science & Technology | MICROSCOPY |
| Biomedical Engineering | CELL & TISSUE ENGINEERING |
| Biomedical Engineering | ENGINEERING, BIOMEDICAL |
| Computer Science & Engineering | COMPUTER SCIENCE, INFORMATION SYSTEMS |

| Academic Subjects | Web of Science Categories |
|---|---|
| Computer Science & Engineering | COMPUTER SCIENCE, CYBERNETICS |
| Computer Science & Engineering | COMPUTER SCIENCE, SOFTWARE ENGINEERING |
| Computer Science & Engineering | COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE |
| Computer Science & Engineering | COMPUTER SCIENCE, HARDWARE & ARCHITECTURE |
| Computer Science & Engineering | COMPUTER SCIENCE, THEORY & METHODS |
| Computer Science & Engineering | COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS |
| Civil Engineering | CONSTRUCTION & BUILDING TECHNOLOGY |
| Civil Engineering | ENGINEERING, CIVIL |
| Chemical Engineering | ENGINEERING, CHEMICAL |
| Materials Science & Engineering | MATERIALS SCIENCE, BIOMATERIALS |
| Materials Science & Engineering | MATERIALS SCIENCE, CERAMICS |
| Materials Science & Engineering | MATERIALS SCIENCE, CHARACTERIZATION & TESTING |
| Materials Science & Engineering | MATERIALS SCIENCE, COATINGS & FILMS |
| Materials Science & Engineering | MATERIALS SCIENCE, COMPOSITES |
| Materials Science & Engineering | MATERIALS SCIENCE, MULTIDISCIPLINARY |
| Materials Science & Engineering | MATERIALS SCIENCE, PAPER & WOOD |
| Materials Science & Engineering | MATERIALS SCIENCE, TEXTILES |
| Nanoscience and Nanotechnology | NANOSCIENCE & NANOTECHNOLOGY |
| Energy Science & Engineering | ENERGY & FUELS |
| Energy Science & Engineering | NUCLEAR SCIENCE & TECHNOLOGY |
| Energy Science & Engineering | ENGINEERING, PETROLEUM |
| Environmental Science & Engineering | ENGINEERING, ENVIRONMENTAL |
| Environmental Science & Engineering | ENVIRONMENTAL SCIENCES |
| Environmental Science & Engineering | ENVIRONMENTAL STUDIES |
| Water Resources | WATER RESOURCES |
| Food Science & Technology | FOOD SCIENCE & TECHNOLOGY |
| Biotechnology | BIOTECHNOLOGY & APPLIED MICROBIOLOGY |
| Aerospace Engineering | ENGINEERING, AEROSPACE |
| Marine/Ocean Engineering | ENGINEERING, MARINE |
| Marine/Ocean Engineering | ENGINEERING, OCEAN |
| Transportation Science & Technology | TRANSPORTATION |
| Transportation Science & Technology | TRANSPORTATION SCIENCE & TECHNOLOGY |
| Remote Sensing | REMOTE SENSING |
| Mining & Mineral Engineering | MINING & MINERAL PROCESSING |
| Metallurgical Engineering | METALLURGY & METALLURGICAL ENGINEERING |
| Biological Sciences | BIOCHEMICAL RESEARCH METHODS |
| Biological Sciences | BIOCHEMISTRY & MOLECULAR BIOLOGY |
| Biological Sciences | BIOLOGY |
| Biological Sciences | BIOPHYSICS |
| Biological Sciences | CELL BIOLOGY |
| Biological Sciences | DEVELOPMENTAL BIOLOGY |
| Biological Sciences | ENTOMOLOGY |
| Biological Sciences | EVOLUTIONARY BIOLOGY |
| Biological Sciences | GENETICS & HEREDITY |
| Biological Sciences | LIMNOLOGY |
| Biological Sciences | MARINE & FRESHWATER BIOLOGY |
| Biological Sciences | MATHEMATICAL & COMPUTATIONAL BIOLOGY |
| Biological Sciences | MICROBIOLOGY |
| Biological Sciences | MYCOLOGY |
| Biological Sciences | ORNITHOLOGY |
| Biological Sciences | PHYSIOLOGY |
| Biological Sciences | REPRODUCTIVE BIOLOGY |

| Academic Subjects | Web of Science Categories |
|---|---|
| Biological Sciences | VIROLOGY |
| Biological Sciences | ZOOLOGY |
| Human Biological Sciences | NEUROSCIENCES |
| Human Biological Sciences | ANATOMY & MORPHOLOGY |
| Human Biological Sciences | PARASITOLOGY |
| Human Biological Sciences | PATHOLOGY |
| Human Biological Sciences | IMMUNOLOGY |
| Human Biological Sciences | MEDICAL INFORMATICS |
| Human Biological Sciences | MEDICINE, RESEARCH & EXPERIMENTAL |
| Agricultural Sciences | AGRONOMY |
| Agricultural Sciences | HORTICULTURE |
| Agricultural Sciences | FISHERIES |
| Agricultural Sciences | SOIL SCIENCE |
| Agricultural Sciences | FORESTRY |
| Agricultural Sciences | AGRICULTURE, DAIRY & ANIMAL SCIENCE |
| Agricultural Sciences | AGRICULTURE, MULTIDISCIPLINARY |
| Agricultural Sciences | PLANT SCIENCES |
| Veterinary Sciences | VETERINARY SCIENCES |
| Clinical Medicine | ALLERGY |
| Clinical Medicine | ANDROLOGY |
| Clinical Medicine | ANESTHESIOLOGY |
| Clinical Medicine | CARDIAC & CARDIOVASCULAR SYSTEMS |
| Clinical Medicine | CLINICAL NEUROLOGY |
| Clinical Medicine | CRITICAL CARE MEDICINE |
| Clinical Medicine | DERMATOLOGY |
| Clinical Medicine | EMERGENCY MEDICINE |
| Clinical Medicine | ENDOCRINOLOGY & METABOLISM |
| Clinical Medicine | GASTROENTEROLOGY & HEPATOLOGY |
| Clinical Medicine | GERIATRICS & GERONTOLOGY |
| Clinical Medicine | GERONTOLOGY |
| Clinical Medicine | HEMATOLOGY |
| Clinical Medicine | INTEGRATIVE & COMPLEMENTARY MEDICINE |
| Clinical Medicine | MEDICINE, GENERAL & INTERNAL |
| Clinical Medicine | OBSTETRICS & GYNECOLOGY |
| Clinical Medicine | ONCOLOGY |
| Clinical Medicine | OPHTHALMOLOGY |
| Clinical Medicine | ORTHOPEDICS |
| Clinical Medicine | OTORHINOLARYNGOLOGY |
| Clinical Medicine | PEDIATRICS |
| Clinical Medicine | PERIPHERAL VASCULAR DISEASE |
| Clinical Medicine | PSYCHIATRY |
| Clinical Medicine | REHABILITATION |
| Clinical Medicine | RESPIRATORY SYSTEM |
| Clinical Medicine | RHEUMATOLOGY |
| Clinical Medicine | SURGERY |
| Clinical Medicine | TRANSPLANTATION |
| Clinical Medicine | TROPICAL MEDICINE |
| Clinical Medicine | UROLOGY & NEPHROLOGY |
| Clinical Medicine | AUDIOLOGY & SPEECH- LANGUAGE PATHOLOGY |
| Public Health | HEALTH POLICY & SERVICES |
| Public Health | HEALTH CARE SCIENCES & SERVICES |
| Public Health | INFECTIOUS DISEASES |
| Public Health | NUTRITION & DIETETICS |
| Public Health | PRIMARY HEALTH CARE |
| Public Health | PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH |
| Public Health | SOCIAL SCIENCES, BIOMEDICAL |

| Academic Subjects | Web of Science Categories |
|---|---|
| Public Health | SUBSTANCE ABUSE |
| Public Health | ERGONOMICS |
| Dentistry & Oral Sciences | DENTISTRY, ORAL SURGERY & MEDICINE |
| Nursing | NURSING |
| Medical Technology | MEDICAL LABORATORY TECHNOLOGY |
| Medical Technology | NEUROIMAGING |
| Medical Technology | RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING |
| Pharmacy & Pharmaceutical Sciences | CHEMISTRY, MEDICINAL |
| Pharmacy & Pharmaceutical Sciences | PHARMACOLOGY & PHARMACY |
| Pharmacy & Pharmaceutical Sciences | TOXICOLOGY |
| Economics | ECONOMICS |
| Statistics | STATISTICS & PROBABILITY |
| Law | CRIMINOLOGY & PENOLOGY |
| Law | LAW |
| Political Sciences | INTERNATIONAL RELATIONS |
| Political Sciences | POLITICAL SCIENCE |
| Sociology | SOCIOLOGY |
| Education | EDUCATION & EDUCATIONAL RESEARCH |
| Education | EDUCATION, SCIENTIFIC DISCIPLINES |
| Education | EDUCATION, SPECIAL |
| Communication | COMMUNICATION |
| Psychology | PSYCHOLOGY |
| Psychology | PSYCHOLOGY, APPLIED |
| Psychology | PSYCHOLOGY, BIOLOGICAL |
| Psychology | PSYCHOLOGY, CLINICAL |
| Psychology | PSYCHOLOGY, DEVELOPMENTAL |
| Psychology | PSYCHOLOGY, EDUCATIONAL |
| Psychology | PSYCHOLOGY, EXPERIMENTAL |
| Psychology | PSYCHOLOGY, MATHEMATICAL |
| Psychology | PSYCHOLOGY, MULTIDISCIPLINARY |
| Psychology | PSYCHOLOGY, PSYCHOANALYSIS |
| Psychology | PSYCHOLOGY, SOCIAL |
| Psychology | BEHAVIORAL SCIENCES |
| Business Administration | BUSINESS |
| Business Administration | INDUSTRIAL RELATIONS & LABOR |
| Finance | BUSINESS, FINANCE |
| Management | MANAGEMENT |
| Management | OPERATIONS RESEARCH & MANAGEMENT SCIENCE |
| Public Administration | PUBLIC ADMINISTRATION |
| Hospitality & Tourism Management | HOSPITALITY, LEISURE, SPORT & TOURISM |
| Library & Information Science | INFORMATION SCIENCE & LIBRARY SCIENCE |

“ [3]

[3] *In* http://www.shanghairanking.com/Shanghairanking-Subject-Rankings/attachment/Mapping_between_Web_of_Science_categories_and_54_academic_subjects.pdf acedido 17 de julho de 2018.

## 4.2 ShanghaiRanking Academic Excellence Survey 2018 Top Journals & Conferences

“

| Academic Subject | Journal Name | ISSN | Percentage Voted |
|---|---|---|---|
| Mathematics | ANNALS OF MATHEMATICS | 0003-486X | 73% |
| Mathematics | JOURNAL OF THE AMERICAN MATHEMATICAL SOCIETY | 0894-0347 | 64% |
| Mathematics | INVENTIONES MATHEMATICAE | 0020-9910 | 55% |
| Physics | PHYSICAL REVIEW LETTERS | 0031-9007 | 86% |
| Chemistry | ANGEWANDTE CHEMIE-INTERNATIONAL EDITION | 1433-7851 | 75% |
| Chemistry | JOURNAL OF THE AMERICAN CHEMICAL SOCIETY | 0002-7863 | 75% |
| Chemistry | NATURE CHEMISTRY | 1755-4330 | 58% |
| Chemistry | NATURE MATERIALS | 1476-1122 | 50% |
| Earth Sciences | EARTH AND PLANETARY SCIENCE LETTERS | 0012-821X | 64% |
| Earth Sciences | GEOPHYSICAL RESEARCH LETTERS | 0094-8276 | 57% |
| Earth Sciences | GEOCHIMICA ET COSMOCHIMICA ACTA | 0016-7037 | 50% |
| Earth Sciences | NATURE GEOSCIENCE | 1752-0894 | 50% |
| Ecology | ANNUAL REVIEW OF ECOLOGY EVOLUTION AND SYSTEMATICS | 1543-592X | 100% |
| Ecology | ECOLOGY LETTERS | 1461-023X | 100% |
| Ecology | TRENDS IN ECOLOGY & EVOLUTION | 0169-5347 | 100% |
| Mechanical Engineering | JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS | 0022-5096 | 40% |
| Mechanical Engineering | JOURNAL OF FLUID MECHANICS | 0022-1120 | 30% |
| Mechanical Engineering | IEEE-ASME TRANSACTIONS ON MECHATRONICS | 1083-4435 | 20% |
| Mechanical Engineering | JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME | 0021-8936 | 20% |
| Mechanical Engineering | COMBUSTION AND FLAME | 0010-2180 | 20% |
| Mechanical Engineering | INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER | 0017-9310 | 20% |
| Mechanical Engineering | JOURNAL OF SOUND AND VIBRATION | 0022-460X | 20% |
| Mechanical Engineering | JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER | 0742-4795 | 20% |
| Mechanical Engineering | PROCEEDINGS OF THE COMBUSTION INSTITUTE | 1540-7489 | 20% |
| Mechanical Engineering | MECHANICAL SYSTEMS AND SIGNAL PROCESSING | 0888-3270 | 20% |
| Mechanical Engineering | SMART MATERIALS AND STRUCTURES | 0964-1726 | 20% |
| Electrical & Electronic Engineering | PROCEEDINGS OF THE IEEE | 0018-9219 | 67% |
| Automation & Control | AUTOMATICA | 0005-1098 | 86% |
| Automation & Control | IEEE TRANSACTIONS ON AUTOMATIC CONTROL | 0018-9286 | 86% |
| Automation & Control | INTERNATIONAL JOURNAL OF ROBOTICS RESEARCH | 0278-3649 | 57% |
| Automation & Control | IEEE TRANSACTIONS ON ROBOTICS | 1552-3098 | 57% |
| Automation & Control | SIAM JOURNAL ON CONTROL AND OPTIMIZATION | 0363-0129 | 57% |
| Biomedical Engineering | BIOMATERIALS | 0142-9612 | 43% |
| Biomedical Engineering | JOURNAL OF NEURAL ENGINEERING | 1741-2560 | 43% |
| Computer Science & Engineering | ACM TRANSACTIONS ON GRAPHICS | 0730-0301 | 36% |
| Civil Engineering | JOURNAL OF STRUCTURAL ENGINEERING | 0733-9445 | 58% |

| Academic Subject | Journal Name | ISSN | Percentage Voted |
|---|---|---|---|
| Chemical Engineering | INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH | 0888-5885 | 59% |
| Chemical Engineering | ENERGY & ENVIRONMENTAL SCIENCE | 1754-5692 | 55% |
| Materials Science & Engineering | NATURE MATERIALS | 1476-1122 | 73% |
| Nanoscience & Nanotechnology | ACS Nano | 1936-0851 | 100% |
| Nanoscience & Nanotechnology | ADVANCED FUNCTIONAL MATERIALS | 1616-301X | 100% |
| Nanoscience & Nanotechnology | ADVANCED MATERIALS | 0935-9648 | 100% |
| Nanoscience & Nanotechnology | NANO LETTERS | 1530-6984 | 100% |
| Nanoscience & Nanotechnology | Nature Nanotechnology | 1748-3387 | 100% |
| Nanoscience & Nanotechnology | Nano Today | 1748-0132 | 67% |
| Nanoscience & Nanotechnology | Small | 1613-6810 | 67% |
| Energy Science & Engineering | ADVANCED ENERGY MATERIALS | 1614-6832 | 100% |
| Energy Science & Engineering | ENERGY & ENVIRONMENTAL SCIENCE | 1754-5692 | 100% |
| Environmental Science & Engineering | ENVIRONMENTAL SCIENCE & TECHNOLOGY | 0013-936X | 100% |
| Water Resources | JOURNAL OF HYDROLOGY | 0022-1694 | 100% |
| Water Resources | WATER RESOURCES RESEARCH | 0043-1397 | 100% |
| Aerospace Engineering | JOURNAL OF SPACECRAFT AND ROCKETS | 0022-4650 | 100% |
| Aerospace Engineering | AIAA JOURNAL | 0001-1452 | 80% |
| Aerospace Engineering | JOURNAL OF PROPULSION AND POWER | 0748-4658 | 60% |
| Remote Sensing | IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING | 0196-2892 | 100% |
| Remote Sensing | REMOTE SENSING OF ENVIRONMENT | 0034-4257 | 100% |
| Remote Sensing | ISPRS JOURNAL OF PHOTOGRAMMETRY AND REMOTE SENSING | 0924-2716 | 67% |
| Metallurgical Engineering | ACTA MATERIALIA | 1359-6454 | 83% |
| Metallurgical Engineering | CORROSION SCIENCE | 0010-938X | 50% |
| Metallurgical Engineering | METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE | 1073-5623 | 50% |
| Metallurgical Engineering | SCRIPTA MATERIALIA | 1359-6462 | 50% |
| Biological Sciences | CELL | 0092-8674 | 70% |
| Veterinary Sciences | VETERINARY RESEARCH | 0928-4249 | 88% |
| Veterinary Sciences | VETERINARY MICROBIOLOGY | 0378-1135 | 75% |
| Clinical Medicine | NEW ENGLAND JOURNAL OF MEDICINE | 0028-4793 | 89% |
| Clinical Medicine | LANCET | 0140-6736 | 78% |
| Public Health | ANNUAL REVIEW OF PUBLIC HEALTH | 0163-7525 | 50% |
| Public Health | ENVIRONMENTAL HEALTH PERSPECTIVES | 0091-6765 | 50% |
| Public Health | INTERNATIONAL JOURNAL OF EPIDEMIOLOGY | 0300-5771 | 50% |
| Dentistry & Oral Sciences | JOURNAL OF DENTAL RESEARCH | 0022-0345 | 100% |
| Nursing | INTERNATIONAL JOURNAL OF NURSING STUDIES | 0020-7489 | 86% |
| Nursing | RESEARCH IN NURSING & HEALTH | 0160-6891 | 57% |
| Pharmacy & Pharmaceutical Sciences | NATURE REVIEWS DRUG DISCOVERY | 1474-1776 | 67% |
| Economics | ECONOMETRICA | 0012-9682 | 100% |
| Economics | AMERICAN ECONOMIC REVIEW | 0002-8282 | 89% |

| Academic Subject | Journal Name | ISSN | Percentage Voted |
|---|---|---|---|
| Economics | JOURNAL OF POLITICAL ECONOMY | 0022-3808 | 84% |
| Economics | QUARTERLY JOURNAL OF ECONOMICS | 0033-5533 | 79% |
| Economics | REVIEW OF ECONOMIC STUDIES | 0034-6527 | 79% |
| Statistics | ANNALS OF STATISTICS | 0090-5364 | 100% |
| Statistics | JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION | 0162-1459 | 100% |
| Statistics | JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY | 1369-7412 | 75% |
| Statistics | BIOMETRIKA | 0006-3444 | 67% |
| Law | HARVARD LAW REVIEW | 0017-811X | 75% |
| Law | YALE LAW JOURNAL | 0044-0094 | 50% |
| Political Sciences | AMERICAN POLITICAL SCIENCE REVIEW | 0003-0554 | 100% |
| Political Sciences | INTERNATIONAL ORGANIZATION | 0020-8183 | 60% |
| Sociology | AMERICAN JOURNAL OF SOCIOLOGY | 0002-9602 | 100% |
| Sociology | AMERICAN SOCIOLOGICAL REVIEW | 0003-1224 | 100% |
| Education | AMERICAN EDUCATIONAL RESEARCH JOURNAL | 0002-8312 | 71% |
| Education | EDUCATIONAL RESEARCHER | 0013-189X | 57% |
| Education | REVIEW OF EDUCATIONAL RESEARCH | 0034-6543 | 57% |
| Communication | JOURNAL OF COMMUNICATION | 0021-9916 | 100% |
| Communication | COMMUNICATION RESEARCH | 0093-6502 | 86% |
| Communication | HUMAN COMMUNICATION RESEARCH | 0360-3989 | 86% |
| Communication | COMMUNICATION THEORY | 1050-3293 | 57% |
| Psychology | PSYCHOLOGICAL SCIENCE | 0956-7976 | 88% |
| Psychology | PSYCHOLOGICAL BULLETIN | 0033-2909 | 50% |
| Psychology | PSYCHOLOGICAL REVIEW | 0033-295X | 50% |
| Psychology | TRENDS IN COGNITIVE SCIENCES | 1364-6613 | 50% |
| Business Administration | JOURNAL OF CONSUMER RESEARCH | 0093-5301 | 67% |
| Business Administration | JOURNAL OF MARKETING | 0022-2429 | 67% |
| Business Administration | JOURNAL OF MARKETING RESEARCH | 0022-2437 | 67% |
| Finance | JOURNAL OF FINANCE | 0022-1082 | 100% |
| Finance | JOURNAL OF FINANCIAL ECONOMICS | 0304-405X | 100% |
| Finance | REVIEW OF FINANCIAL STUDIES | 0893-9454 | 100% |
| Management | ACADEMY OF MANAGEMENT JOURNAL | 0001-4273 | 82% |
| Management | ACADEMY OF MANAGEMENT REVIEW | 0363-7425 | 73% |
| Management | MANAGEMENT SCIENCE | 0025-1909 | 73% |
| Management | ORGANIZATION SCIENCE | 1047-7039 | 73% |
| Management | STRATEGIC MANAGEMENT JOURNAL | 0143-2095 | 64% |
| Management | ADMINISTRATIVE SCIENCE QUARTERLY | 0001-8392 | 55% |
| Hospitality & Tourism Management | ANNALS OF TOURISM RESEARCH | 0160-7383 | 83% |
| Hospitality & Tourism Management | INTERNATIONAL JOURNAL OF CONTEMPORARY HOSPITALITY MANAGEMENT | 0959-6119 | 83% |
| Hospitality & Tourism Management | INTERNATIONAL JOURNAL OF HOSPITALITY MANAGEMENT | 0278-4319 | 83% |
| Hospitality & Tourism Management | JOURNAL OF TRAVEL RESEARCH | 0047-2875 | 67% |
| Hospitality & Tourism Management | TOURISM MANAGEMENT | 0261-5177 | 67% |
| Hospitality & Tourism Management | JOURNAL OF HOSPITALITY & TOURISM RESEARCH | 1096-3480 | 50% |

| Academic Subject | Journal Name | ISSN | Percentage Voted |
|---|---|---|---|
| Agricultural Economics | AMERICAN JOURNAL OF AGRICULTURAL ECONOMICS | 0002-9092 | 100% |
| Agricultural Economics | EUROPEAN REVIEW OF AGRICULTURAL ECONOMICS | 0165-1587 | 75% |
| Agricultural Economics | JOURNAL OF ENVIRONMENTAL ECONOMICS AND MANAGEMENT | 0095-0696 | 75% |
| Agricultural Economics | LAND ECONOMICS | 0023-7639 | 50% |
| Agricultural Economics | AGRICULTURAL ECONOMICS | 0169-5150 | 50% |
| Library & Information Science | JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION | 1067-5027 | 100% |
| Library & Information Science | JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY | 1532-2882 | 100% |
| Library & Information Science | MIS QUARTERLY | 0276-7783 | 100% |

"[4]

"

| Academic Subject | Conference Name | Conference Abbreviation | Percentage Voted |
|---|---|---|---|
| Computer Science & Engineering | Annual Conference on Neural Information Processing Systems | NIPS | 27% |
| Computer Science & Engineering | USENIX Symposium on Operating Systems Design and Implementation | OSDI | 27% |
| Computer Science & Engineering | ACM SIGGRAPH | SIGGRAPH | 27% |
| Computer Science & Engineering | ACM Symposium on the Theory of Computing | STOC | 27% |
| Computer Science & Engineering | International Conference on Computer Aided Verification | CAV | 18% |
| Computer Science & Engineering | ACM Conference on Human Factors in Computing Systems | CHI | 18% |
| Computer Science & Engineering | International Conference on Computational Learning Theory | COLT | 18% |
| Computer Science & Engineering | International Cryptology Conference | CRYPTO | 18% |
| Computer Science & Engineering | Conference on Computer Vision and Pattern Recognition | CVPR | 18% |
| Computer Science & Engineering | IEEE Symposium on Foundations of Computer Science | FOCS | 18% |
| Computer Science & Engineering | Symposium on Principles of Programming Languages | POPL | 18% |
| Computer Science & Engineering | ACM SIGCOMM Conference | SIGCOMM | 18% |
| Computer Science & Engineering | ACM SIGGRAPH Asia | SIGGRAPH Asia | 18% |
| Computer Science & Engineering | Theory of Cryptography Conference | TCC | 18% |

" [5]

[4] *In* http://www.shanghairanking.com/subject-survey/top-journals.html acedido 17 de julho de 2018.
[5] *In* http://www.shanghairanking.com/subject-survey/conferences.html acedido 17 de julho de 2018.

## 4.3 ShanghaiRanking Academic Excellence Survey 2018 Top Award

“

| Academic Subject | Award | Percentage Voted |
|---|---|---|
| Mathematics | Fields Medal | 100% |
| Mathematics | The Abel Prize | 82% |
| Physics | Nobel Prize in Physics | 100% |
| Chemistry | Nobel Prize in Chemistry | 100% |
| Chemistry | Priestley Medal | 58% |
| Chemistry | Wolf Prize in Chemistry | 58% |
| Earth Sciences | Crafoord Prize in Geosciences | 36% |
| Mechanical Engineering | Timoshenko Medal | 60% |
| Mechanical Engineering | ASME Medal | 50% |
| Electrical & Electronic Engineering | IEEE Medal of Honor | 100% |
| Automation & Control | IEEE Control Systems Award | 43% |
| Biomedical Engineering | Pritzker Distinguished Lectureship Award | 29% |
| Computer Science & Engineering | A. M. Turing Award | 86% |
| Civil Engineering | International Award of Merit in Structural Engineering | 33% |
| Chemical Engineering | Andreas Acrivos Award for Professional Progress in Chemical Engineering | 41% |
| Materials Science & Engineering | MRS Medal Award | 67% |
| Materials Science & Engineering | Von Hippel Award | 67% |
| Environmental Science & Engineering | Stockholm Water Prize | 55% |
| Water Resources | Robert E. Horton Medal | 100% |
| Biological Sciences | Nobel Prize in Physiology or Medicine | 60% |
| Clinical Medicine | Nobel Prize in Physiology or Medicine | 89% |
| Clinical Medicine | Lasker~DeBakey Clinical Medical Research Award | 56% |
| Dentistry & Oral Sciences | IADR Distinguished Scientist Award | 80% |
| Nursing | Nurse Researcher Hall of Fame | 43% |
| Pharmacy & Pharmaceutical Sciences | Nobel Prize in Physiology or Medicine | 33% |
| Economics | The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel | 95% |
| Statistics | COPSS Presidents' Award | 67% |
| Political Sciences | The Johan Skytte Prize in Political Science | 60% |
| Management | The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel | 18% |
| Hospitality & Tourism Management | Ulysses Prize | 50% |

“[6]

[6] *In* http://www.shanghairanking.com/subject-survey/awards.html acedido 17 de julho de 2018.