

A Universidade do Porto no ShanghaiRanking's Global Ranking of Academic Subjects (GRAS) 2021

Universidade do Porto. Reitoria.
Gabinete de avaliação e qualidade
28 de maio de 2021

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<https://www.shanghairanking.com/rankings/gras/2021>

1. Metodologia do ShanghaiRanking's Global Ranking of Academic Subjects 2021

“ShanghaiRanking's Global Ranking of Academic Subjects Methodology 2021

1. Ranking Subjects

In ShanghaiRanking's Global Ranking of Academic Subjects 2021, institutions are ranked in 54 subjects across Natural Sciences, Engineering, Life Sciences, Medical Sciences, and Social Sciences.

The screenshot displays the 'Ranking Subjects' section of the ShanghaiRanking's Global Ranking of Academic Subjects 2021 website. The page is organized into five main categories, each with a list of specific subjects:

- Natural Sciences:** Mathematics, Physics, Chemistry, Earth Sciences, Geography, Ecology, Oceanography, Atmospheric Science.
- Engineering:** Mechanical Engineering, Electrical & Electronic Engineering, Automation & Control, Telecommunication Engineering, Instruments Science & Technology, Biomedical Engineering, Computer Science & Engineering, Civil Engineering, Chemical Engineering, Materials Science & Engineering, Nanoscience & Nanotechnology, Energy Science & Engineering, Environmental Science & Engineering, Water Resources, Food Science & Technology, Biotechnology, Aerospace Engineering, Marine/Ocean Engineering, Transportation Science & Technology, Remote Sensing, Mining & Mineral Engineering, Metallurgical Engineering.
- Life Sciences:** Biological Sciences, Human Biological Sciences, Agricultural Sciences, Veterinary Sciences.
- Medical Sciences:** Clinical Medicine, Public Health, Dentistry & Oral Sciences, Nursing, Medical Technology, Pharmacy & Pharmaceutical Sciences.
- Social Sciences:** Economics, Statistics, Law, Political Sciences, Sociology, Education, Communication, Psychology, Business Administration, Finance, Management, Public Administration, Hospitality & Tourism Management, Library & Information Science.

2. Candidate Universities

The Global Ranking of Academic Subjects has scrutinised the universities that have published a certain number of publications during the period of 2015-2019. The publication threshold is set differently for different subjects. Bibliometric data are collected from Web of Science and InCites.

2021 ShanghaiRanking's Global Ranking of Academic Subjects Selection of Universities

Fields	Subjects	Publication threshold	Listed Universities
Natural sciences	Mathematics	100	500
Natural sciences	Physics	300	500
Natural sciences	Chemistry	200	500
Natural sciences	Earth Sciences	100	500
Natural sciences	Geography	100	300
Natural sciences	Ecology	100	500
Natural sciences	Marine Sciences	50	200
Natural sciences	Atmospheric Sciences	50	400
Engineering	Mechanical Engineering	100	400
Engineering	Electrical & Electronic Engineering	150	500
Engineering	Automation & Control	100	200
Engineering	Telecommunication Engineering	100	300
Engineering	Instruments Science & Technology	100	300
Engineering	Biomedical Engineering	100	300
Engineering	Computer Science & Engineering	150	500
Engineering	Civil Engineering	100	300
Engineering	Chemical Engineering	100	500
Engineering	Materials Science & Engineering	200	500
Engineering	Nanoscience & Nanotechnology	150	400
Engineering	Energy Science & Engineering	200	400
Engineering	Environmental Science & Engineering	200	500
Engineering	Water Resources	100	200
Engineering	Food Science & Technology	100	300
Engineering	Biotechnology	100	500
Engineering	Aerospace Engineering	50	50
Engineering	Marine/Ocean Engineering	50	50
Engineering	Transportation Science & Technology	50	200
Engineering	Remote Sensing	50	100
Engineering	Mining & Mineral Engineering	25	100
Engineering	Metallurgical Engineering	100	200
Life Sciences	Biological Sciences	200	500
Life Sciences	Human Biological Sciences	100	500
Life Sciences	Agricultural Sciences	100	500
Life Sciences	Veterinary Sciences	50	300
Medical Sciences	Clinical Medicine	300	500
Medical Sciences	Public Health	200	500
Medical Sciences	Dentistry & Oral Sciences	50	300
Medical Sciences	Nursing	50	300
Medical Sciences	Medical Technology	100	400
Medical Sciences	Pharmacy & Pharmaceutical Sciences	100	500
Social Sciences	Economics	50	500
Social Sciences	Statistics	100	200
Social Sciences	Law	50	300
Social Sciences	Political Sciences	50	400
Social Sciences	Sociology	50	200
Social Sciences	Education	50	500
Social Sciences	Communication	25	300
Social Sciences	Psychology	100	500
Social Sciences	Business Administration	50	400
Social Sciences	Finance	50	200
Social Sciences	Management	50	500
Social Sciences	Public administration	25	200
Social Sciences	Hospitality & Tourism Management	25	300
Social Sciences	Library & Information Sciences	50	100

Web of Science categories are mapped to 54 academic subjects.

[...] [Ver Anexo 4.1 Mapping between Web of Science categories and 54 academic subjects](#)

3. Scoring

The Rankings use a range of objective academic indicators and third-party data to measure the performance of world universities in relevant subjects, including research output (Q1), research influence (CNCI), international collaboration (IC), research quality (Top), and international academic awards (Award). The index of international academic awards is based on Academic Excellence Survey (AES) conducted by ShanghaiRanking.

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. The final score is obtained by adding the score of each indicator, and universities are ranked in descending order.

In calculating the CNCI score, the maximum value of CNCI in a subject is set as the lower value of: (1) either twice of the average CNCI for all institutions in this subject; (2) or the maximum of the CNCI for all institutions in this subject. The CNCI score of the institution is calculated as the proportion of their CNCI to the maximum value. If an institution's CNCI is higher than the maximum value, its CNCI score is assigned as 100..

4. Definition of Indicators

Indicators	Definition
Q1	The number of influential journal publications is an important measure of the research output of the universities in the corresponding subject. Q1 is the number of papers published by an institution in an Academic Subject in journals with Q1 Journal Impact Factor Quartile during the period of 2015-2019. Only 'Article' is considered. Data are collected from Web of Science and InCites. Publications in different Web of Science categories are grouped into relevant Academic Subjects (Classification of Web of Science Categories into Academic Subjects) [Ver Anexo 4.1 Mapping between Web of Science categories and 54 academic subjects.]
CNCI	Category Normalized Citation Impact (CNCI) is the ratio of citations of papers published to the average citations of papers in the same category, the same year and same type of journal publication, by an institution in an Academic Subject during the period of 2015-2019. A CNCI value of 1 represents world-average performance. CNCI less than 1 indicates that the citation times of this group publications are lower than the average level, while CNCI greater than 1 indicates that the paper's citation performance is above the average level. Only 'Article' is considered. Data are collected from InCites database.
IC	International collaboration (IC) is an indicator used to evaluate the level of international collaboration in the respective subject between institutions. The ratio of the number of publications that have been found with at least two different countries in addresses of the authors to the total number of publications in the respective subject for an institution during the period of 2015-2019.
TOP	Top is the number of papers published in Top Journals in an Academic Subject for an institution during the period of 2015-2019. Top Journals are nominated by distinguished scholars through ShanghaiRanking's Academic Excellence Survey . In 2021, 164 top journals identified by the Survey are used in rankings of 48 Academic Subjects. In Computer Science & Engineering, 26 selected top conferences are also taken into account this year. Only 'Article' is considered for this indicator. But in the subject of Pharmacy & Pharmaceutical Sciences, both "Article" and "Review" are counted because only one journal in this subject was selected as Top journal and it mainly publishes reviews. [Ver Anexo 4.2 ShanghaiRanking Academic Excellence Survey 2020 Top Journals, Awards & Conferences]
AWARD	Award refers to the total number of the staff of an institution winning 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 nominated through ShanghaiRanking's Academic Excellence Survey. 32 prestigious international academic awards across 27 subjects were identified by the Survey. 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, diminishing by 25% each retrograde decade. The weight is 100% for winners in 2011-2019, 75% for winners in 2001-2010, 50% for winners in 1991-2000, and 25% for winners in 1981-1990. Nobel Prize in Physiology or Medicine is selected for Biological Sciences, Human Biological Sciences, Clinical Medicine and Pharmacy & Pharmaceutical Sciences. Winners of this award are assigned to one or more subjects according to the topics of their recognized contributions. If a contribution belongs to more than

Indicators	Definition
	one subject, the winner will be counted once for each relevant subject. [Ver Anexo 4.2 ShanghaiRanking Academic Excellence Survey 2020 Top Journals, Awards & Conferences]

5.Data Sources

Indicator	Sources
Q1	InCites database https://incites.clarivate.com/#/analytics
CNCI	InCites database https://incites.clarivate.com/#/analytics
IC	InCites database https://incites.clarivate.com/#/analytics
Top	InCites database https://incites.clarivate.com/#/analytics
Award	Fields Medal http://www.mathunion.org/general/prizes/fields/details/ The Abel Prize http://www.abelprize.no Nobel Prize in Physics https://www.nobelprize.org/prizes/physics/ Wolf Prize in Chemistry https://wolffund.org.il/home-page Nobel Prize in Chemistry https://www.nobelprize.org/prizes/chemistry/ Priestley Medal http://www.acs.org/content/acs/en/funding-and-awards/awards/national/bytopic/priestley-medal.html Crafoord Prize in Geosciences https://www.crafoordprize.se/geosciences The Carl-Gustaf Rossby Research Medal https://www.ametsoc.org/index.cfm/ams/about-ams/ams-awards-honors/awards/science-and-technology-medals/the-carl-gustaf-rossby-research-medal/ The Jule G. Charney Award https://www.ametsoc.org/index.cfm/ams/about-ams/ams-awards-honors/awards/science-and-technology-medals/the-jule-g-charney-medal/ ASME Medal https://www.asme.org/about-asme/get-involved/honors-awards/achievement-awards/asme-medal Timoshenko Medal https://www.asme.org/about-asme/get-involved/honors-awards/achievement-awards/timoshenko-medal IEEE Medal of Honor http://www.ieee.org/about/awards/medals/medallofhonor.html IEEE Control Systems Award https://www.ieee.org/about/awards/tfas/controlsys.html A.M. Turing Award http://amturing.acm.org/ International Award of Merit in Structural Engineering https://iabse.org/About/Awards/Award-of-Merit Andreas Acrivos Award for Professional Progress in Chemical Engineering https://www.aiche.org/community/awards/andreas-acrivos-award-professional-progress-chemical-engineering MRS Medal Award https://mrs.org/careers-advancement/awards/fall-awards/mrs-medal Von Hippel Award https://www.mrs.org/careers-advancement/awards/fall-awards/von-hippel-award Stockholm Water Prize http://www.siwi.org/prizes/stockholmwaterprize/ Robert E. Horton Medal https://honors.agu.org/medals-awards/robert-e-horton-award/ EGU John Dalton Medal https://www.equ.eu/awards-medals/john-dalton/ ASME-OOAE Lifetime Achievement Award https://asm.org/Academy/ASM-Lifetime-Achievement-Award Nobel Prize in Physiology or Medicine https://www.nobelprize.org/prizes/medicine/ Lasker~DeBakey Clinical Medical Research Award http://www.laskerfoundation.org/awards/#name=&award=Clinical&year= IADR Distinguished Scientist Award http://www.iadr.org/IADR/Awards/Grants-Awards/Distinguished-Scientist Nurse Researcher Hall of Fame https://www.sigmanursing.org/advance-elevate/awards/nurse-researcher-awards ISMRM Gold Medal https://www.ismrm.org/20m/gold-medal/ The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel https://www.nobelprize.org/prizes/economic-sciences/ COPSS Presidents' Award https://community.amstat.org/copss/awards/presidents The Johan Skytte Prize in Political Science http://www.skytteprize.com/ Ulysses Prize

6. Indicators and Weights

Different weights are allocated to the indicators for different subjects, as listed below.

Fields	Subjects	Q1	CNCI	IC	TOP	Award
Natural sciences	Mathematics	100	50	20	100	100
Natural sciences	Physics	100	100	20	100	100
Natural sciences	Chemistry	100	100	20	100	100
Natural sciences	Earth Sciences	100	100	20	100	100
Natural sciences	Geography	100	100	20	100	0
Natural sciences	Ecology	100	100	20	100	0
Natural sciences	Marine Sciences	200	100	20	0	0
Natural sciences	Atmospheric Sciences	100	100	20	100	100
Engineering	Mechanical Engineering	100	100	20	100	100
Engineering	Electrical & Electronic Engineering	100	100	20	100	100
Engineering	Automation & Control	100	100	20	100	100
Engineering	Telecommunication Engineering	200	100	20	0	0
Engineering	Instruments Science & Technology	200	100	20	0	0
Engineering	Biomedical Engineering	100	100	20	100	0
Engineering	Computer Science & Engineering	100	100	20	100	100
Engineering	Civil Engineering	100	100	20	100	100
Engineering	Chemical Engineering	100	100	20	100	100
Engineering	Materials Science & Engineering	100	100	20	100	100
Engineering	Nanoscience & Nanotechnology	100	100	20	100	0
Engineering	Energy Science & Engineering	100	100	20	100	0
Engineering	Environmental Science & Engineering	100	100	20	100	100
Engineering	Water Resources	100	100	20	100	20
Engineering	Food Science & Technology	200	100	20	0	0
Engineering	Biotechnology	200	100	20	0	0
Engineering	Aerospace Engineering	100	100	20	100	0
Engineering	Marine/Ocean Engineering	100	100	20	100	20
Engineering	Transportation Science & Technology	200	100	20	0	0
Engineering	Remote Sensing	100	100	20	100	0
Engineering	Mining & Mineral Engineering	100	100	20	100	0
Engineering	Metallurgical Engineering	100	100	20	100	0
Life Sciences	Biological Sciences	100	100	20	100	100
Life Sciences	Human Biological Sciences	100	100	20	100	100
Life Sciences	Agricultural Sciences	200	100	20	0	0
Life Sciences	Veterinary Sciences	100	100	20	100	0
Medical Sciences	Clinical Medicine	100	100	20	100	100
Medical Sciences	Public Health	100	100	20	100	0
Medical Sciences	Dentistry & Oral Sciences	100	100	20	100	100
Medical Sciences	Nursing	100	100	20	100	20
Medical Sciences	Medical Technology	100	100	20	100	20
Medical Sciences	Pharmacy & Pharmaceutical Sciences	100	100	20	100	20
Social Sciences	Economics	150	50	10	100	100
Social Sciences	Statistics	150	50	10	100	100
Social Sciences	Law	150	50	10	100	0
Social Sciences	Political Sciences	150	50	10	100	20
Social Sciences	Sociology	150	50	10	100	0
Social Sciences	Education	150	50	10	100	0
Social Sciences	Communication	150	50	10	100	0
Social Sciences	Psychology	150	50	10	100	0
Social Sciences	Business Administration	150	50	10	100	0
Social Sciences	Finance	150	50	10	100	0
Social Sciences	Management	150	50	10	100	0
Social Sciences	Public administration	150	50	10	100	0
Social Sciences	Hospitality & Tourism Management	150	50	10	100	20
Social Sciences	Library & Information Sciences	150	50	10	100	20

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¹ In <http://shanghairanking.com/methodology/gras/2021> , acedido 26 de maio de 2021

2. Evolução² da Universidade do Porto no ShanghaiRanking's Global Ranking of Academic Subjects

Evolução das posições

		2017	2018	2019	2020	2020	2020	2020	2021	2021	2021	2021
		World rank	World rank	World rank	World rank	Euro rank	IbAm rank	PT rank	World rank	Euro rank	IbAm rank	PT rank
NATURAL SCIENCES	Mathematics	401-500	n/c	n/c	n/c				301-400	135-172	18-26	2
	Physics	401-500	401-500	401-500	401-500	185-221	31-39	4-5	401-500	192-220	31-41	3-5
	Chemistry	201-300	301-400	301-400	401-500	154-198	17-26	3-4	401-500	148-188	17-25	3-4
	Earth Sciences	n/c	n/c	401-500	n/c				n/c			
	Geography	n/c	n/c	201-300	201-300	101-144	3-13	2	201-300	102-140	5-12	2
	Ecology	101-150	101-150	101-150	101-150	49-74	2-5	1	151-200	79-99	7-8	1
	Oceanography (novo 2018)		151-200	151-200	151-200	73-87	12-17	4-5	151-200	71-84	12-17	4-5
	Atmospheric Science (novo 2018)		301-400	301-400	n/c				301-400	130-164	19-24	2-3
ENGINEERING	Mechanical Engineering	151-200	151-200	201-300	201-300	70-98	5-11	2	201-300	69-95	5-12	2
	Electrical & Electronic Engineering	201-300	301-400	301-400	301-400	89-132	14-23	4-6	301-400	85-118	14-23	3-5
	Automation & Control	n/c	101-150	151-200	151-200	42-58	6-11	2-3	n/c			
	Telecommunication Engineering	n/c	n/c	n/c	n/c				n/c			
	Instruments Science & Technology	151-200	151-200	201-300	201-300	55-102	12-22	1-3	151-200	29-48	9-12	1
	Biomedical Engineering	151-200	101-150	76-100	76-100	15-22	1	1	76-100	16-23	1	1
	Computer Science & Engineering	101-150	401-500	301-400	301-400	91-125	10-16	3	401-500	113-148	12-22	3-4
	Civil Engineering	201-300	101-150	101-150	101-150	26-40	6-7	4-5	151-200	36-51	6-7	4-5
	Chemical Engineering	29	41	51-75	76-100	11-16	1-2	1	76-100	9-15	1	1
	Materials Science & Engineering	201-300	201-300	301-400	401-500	131-176	14-18	4-5	n/c			

² Edições de 2017 a 2020, 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; de 26 de junho a 4 de julho de 2019, GRAS 2019 e 29 e 30 de junho de 2020, GRAS 2020. Edição de 2021, retirado de <http://shanghairanking.com/rankings/gras/2021> de 26 a 27 de maio de 2021.

		2017	2018	2019	2020	2020	2020	2020	2021	2021	2021	2021
		World rank	World rank	World rank	World rank	Euro rank	IbAm rank	PT rank	World rank	Euro rank	IbAm rank	PT rank
ENGINEERING	Nanoscience & Nanotechnology	n/c	301-400	301-400	n/c				n/c			
	Energy Science & Engineering	201-300	201-300	201-300	201-300	51-93	4-13	2	201-300	50-85	4-13	2
	Environmental Science & Engineering	151-200	151-200	151-200	201-300	73-108	8-11	3	201-300	66-105	7-10	2-3
	Water Resources	151-200	n/c	n/c	n/c				n/c			
	Food Science & Technology	11	12	11	15	4	3	1	15	3	3	1
	Biotechnology	201-300	151-200	201-300	151-200	50-77	5	1	151-200	50-71	5	1
	Aerospace Engineering	n/c	n/c	n/c	n/c				n/c			
	Marine/Ocean Engineering	n/c	n/c	n/c	n/c				n/c			
	Transportation Science & Technology	n/c	151-200	151-200	151-200	37-55	7/10	3	n/c			
	Remote Sensing	n/c	n/c	n/c	n/c				n/c			
	Mining & Mineral Engineering	n/c	n/c	n/c	n/c				n/c			
	Metallurgical Engineering	n/c	n/c	n/c	n/c				n/c			
LIFE SCIENCES	Biological Sciences	201-300	151-200	201-300	301-400	145-186	7-13	2-3	201-300	98-141	5-9	1-2
	Human Biological Sciences	201-300	201-300	201-300	301-400	145-184	10-14	2	301-400	145-187	9-18	2-3
	Agricultural Sciences	151-200	151-200	101-150	101-150	42-68	8-12	2	101-150	42-64	9-14	2
	Veterinary Sciences	51-75	51-75	51-75	51-75	26-39	5-8	1	76-100	38-52	8-12	1-2
MEDICAL SCIENCES	Clinical Medicine	301-400	301-400	201-300	201-300	95-138	5-15	1-2	151-200	70-93	3-6	1
	Public Health	151-200	151-200	101-150	101-150	38-61	4-6	1	101-150	38-65	5-7	1
	Dentistry & Oral Sciences	n/c	201-300	201-300	201-300	85-113	21-40	1-2	201-300	85-114	20-39	1-2
	Nursing	n/c	n/c	n/c	201-300	76-94	4-6	1	201-300	77-99	4-7	1-2
	Medical Technology	n/c	n/c	n/c	201-300	108-146	5-9	1-2	201-300	107-149	5-9	1-3
	Pharmacy & Pharmaceutical Sciences	76-100	51-75	101-150	101-150	46-72	2-6	1	101-150	49-71	2-4	1

		2017	2018	2019	2020	2020	2020	2020	2021	2021	2021	2021
		World rank	World rank	World rank	World rank	Euro rank	IbAm rank	PT rank	World rank	Euro rank	IbAm rank	PT rank
SOCIAL SCIENCES	Economics	n/c	201-300	301-400	401-500	189-236	19-32	4-5	401-500	187-236	16-26	3-5
	Statistics	n/c	n/c	n/c	n/c				n/c			
	Law	n/c	n/c	n/c	n/c				n/c			
	Political Sciences	n/c	n/c	n/c	n/c				n/c			
	Sociology	n/c	n/c	n/c	n/c				n/c			
	Education	n/c	301-400	301-400	401-500	133-176	15-24	2	401-500	137-180	19-28	3
	Communication	n/c	n/c	n/c	n/c				n/c			
	Psychology	n/c	401-500	401-500	n/c				n/c			
	Business Administration	n/c	n/c	n/c	n/c				n/c			
	Finance	n/c	n/c	n/c	n/c				n/c			
	Management	301-400	301-400	301-400	301-400	102-146	14-20	4	301-400	105-150	16-22	4
	Public Administration	n/c	n/c	n/c	n/c				n/c			
	Hospitality & Tourism Management	n/c	n/c	n/c	n/c				201-300	74-129	19-25	6
	Library & Information Science	n/c	n/c	n/c	n/c				n/c			

n/c - não consta

Evolução dos scores

		Total score					PUB - Q1					CNCI					IC					TOP					AWARD				
		2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021
NATURAL SCIENCES	Mathematics						39,4				32,9	51,9				59,1	72,2				75,7	0				16,2	0				0
	Physics						35,7	36,5	37,2	37,9	37,5	45	57,7	71,3	74	73,3	86,3	86,9	87	87,5	87,9	12,7	16	17,1	17,9	18,2	0	0	0	0	0
	Chemistry						52	50,9	49,3	41,6	39	60,2	61,5	69,9	69,1	68,3	72,4	73,3	71,6	72,3	73,9	11	11,1	11,2	11,5	11,8	0	0	0	0	0
	Earth Sciences								28,9					65,1					81,1					5,8					0		
	Geography								35	36,5	36,4			64,9	67,6	71,7			77,6	79,9	81,5			21,3	17,1	20,6					
	Ecology						57,3	60,1	61,5	56,3	55	60,2	62,7	66,5	68,1	68,1	89,4	60,1	91,7	92,7	92,6	49,1	30,9	31,6	30,2	26,7					
	Oceanography (novo 2018)							35,6	33,3	30,8	26,3		62	64,3	66,9	72,9		82,4	82,7	84,6	86,5		19,4	20,1							
	Atmospheric Science(novo 2018)							19	17,8		12,5		53,9	63,9		71,2		19	72,1		85,5		14,7	7,5		4,8					0
ENGINEERING	Mechanical Engineering						36,9	36,4	34,9	30,7	29,8	67	56,5	78,7	76,7	75,5	63,4	64,5	66,6	68,4	70,9	15,9	19,6	10,1	11,3	14,7	0	0	0	0	0
	Electrical & Electronic Engineering						31,5	30	28,2	28,3	27,4	51,6	62,5	70,8	74,2	77,9	76,3	76,2	76,6	79,1	80,6	21,6	0	0	0	0	0	0	0	0	0
	Automation & Control							32	28,9	23,2			41,5	55,1	57			72	73,5	75,8			31,8	30,8	29,5			0	0	0	
	Telecommunication Engineering																														
	Instruments Science & Technology						39,9	38,7	36,4	32,7	33,9	51,1	53,1	64,7	65,9	66,8	72,1	73,2	78,1	74,3	72,1	42,2	39,2	31,5							
	Biomedical Engineering						36,8	39,1	40,7	35,9	36,1	61,6	63,2	72,7	72,6	69,9	66,3	67,2	72,1	74,6	76,2	26,3	31,8	37,4	41,8	39,4	0	0			
	Computer Science & Engineering						41,3	41,2	41,1	31,3	29,5	53,4	47,9	64	66,5	64,2	68,6	69,1	69,9	72,2	74,5	89,4	0	6,8	11,2	11,5	0	0	0	0	0
	Civil Engineering						46,8	44,6	41,8	41,6	36,7	42,4	39,9	72,4	69,8	68,4	64,8	57,6	57,7	61,3	64,7	0	21,8	19,8	19,8	17,5	0	0	0	0	0
	Chemical Engineering	196,2	174,6				63,9	59,1	53,3	43,4	40,3	61,5	56,1	73,1	72,1	71,3	73,1	73,3	72,3	73	66,8	56,2	44,6	43,9	41,2	39,1	0	0	0	0	0
	Materials Science & Engineering						38,9	38,5	37,1	32,2		65	65,4	74,1	71,3		72	72,3	73,8	72,7		14	13,5	7,4	6,6		0	0	0	0	
	Nanoscience & Nanotechnology							29,5	28,6				62,3	63,9				82,1	80,6				10,8	11,3							
	Energy Science & Engineering						34,7	34,1	33,1	33,6	30,9	65,5	63,1	69	62,2	62,6	79,5	80,3	76,9	78,9	78,4	16,9	16,3	18,8	20,4	18					
	Environmental Science & Engineering						67,6	66	62,2	52,9	50	62,9	64,6	66,4	66,4	69,7	67,3	67,8	68	70,9	73,2	17,1	15,7	15	15,6	14,6	0	0	0	0	0
	Water Resources						39,7					62,8					65,6					36,3									

		Total score					PUB - Q1					CNCI					IC					TOP					AWARD				
		2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021
ENGINEERING	Food Science & Technology	239	231,3	226,1	220,8	213	69,2	67,7	64,6	67,9	62,6	77	74,3	74,7	71,5	74,1	60,1	63,7	67	67,3	68,2	80,8	76,5	73,4							
	Biotechnology						46	48	48,8	38,4	37,6	42,2	44	63,8	67,8	69,9	70,8	70,8	72,7	76,2	77,6	30,9	31,1	29,8							
	Aerospace Engineering																														
	Marine/Ocean Engineering																														
	Transportation Science & Technology							33,2	31,9	27,6			62,8	64,9	62,9			61,6	66,8	70,1			33,8	27,9							
	Remote Sensing																														
	Mining & Mineral Engineering																														
	Metallurgical Engineering																														
LIFE SCIENCES	Biological Science						40,7	41,5	41,7	31,7	32,5	40,5	44,6	70,2	72,4	72,2	79,9	80,3	81,8	82,4	81	11,1	6,9	4,9	0	4,9	0	0	0	0	0
	Human Biological Sciences						27,1	27,6	27,9	20,4	20,5	60,8	60,8	70,2	70,4	71,4	72,9	74,2	75,3	75,6	76,1	19,3	20	20	7,7	11,1			0	0	0
	Agricultural Sciences						39,7	39,5	39,6	36,4	36,9	62,2	62,7	71,5	73,6	75	77,2	79,6	79,8	79,7	80,6	36,1	35,6	36,8							
	Veterinary Sciences						31,2	31,2	32,1	42,4	40,4	85,3	83,6	87,9	87	79,4	76,1	76,8	80,8	82	85,5	29,9	34,3	35	34,9	24,5					
MEDICAL SCIENCES	Clinical Medicine						22,2	22,7	23,4	18,3	18,8	60,7	64,2	82	78,4	84,2	66,4	67,3	68,1	69,7	71	9,1	14	19,6	23,1	24,3	0	0	0	0	0
	Public Health						27,8	28	29,4	23,9	24,9	39,4	53,3	81,3	80,3	83,9	69	70,3	72,5	73,4	75,2	23,5	9,6	15,6	16,7	16,4					
	Dentistry & Oral Sciences							22,2	22,2	21,5	17,4		56,1	58,9	59,3	64,2		64,4	58,4	67,3	73		14,4	15,4	28,1	21,6		0	0	0	0
	Nursing									25,5	30,3				65,1	70,6				67,5	73,2				18,9	18,9				0	0
	Medical Technology									12,3	12,8				72,4	73,6				82,4	83,9					0					0
	Pharmacy & Pharmaceutical Sciences						63,5	65,5	66,1	58,7	60,2	59,6	61,3	76	76,2	76,5	71,6	70,9	70,6	71,1	69,5	0	0	0	0	0	0		0	0	0

		Total score					PUB - Q1					CNCI					IC					TOP					AWARD				
		2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021
SOCIAL SCIENCES	Economics							37,4	37,1	21,8	21,3		41,6	50,7	52,7	53,3		60,3	61,1	63,8	62,2		6,7	6,6	9,4	9,6		0	0	0	0
	Statistics																														
	Law																														
	Political Sciences																														
	Sociology																														
	Education							38,4	40,8	28,7	32,3		50,9	58,2	55,8	59,6		57,8	59,3	63,3	69,2		0	0	0	0					
	Communication																														
	Psychology							29,7	31,3				59	63,4				75,6	76,1				0	0							
	Business Administration																														
	Finance																														
	Management						40,9	44	44,9	42,4	43,1	53,3	57,9	67,6	70,2	69,2	78,2	78	75,5	73,2	74,3	0	0	0	0	0					
	Public Administration																														
	Hospitality & Tourism Management										15,7					67,3					83,4					8,3					0
	Library & Information Science																														

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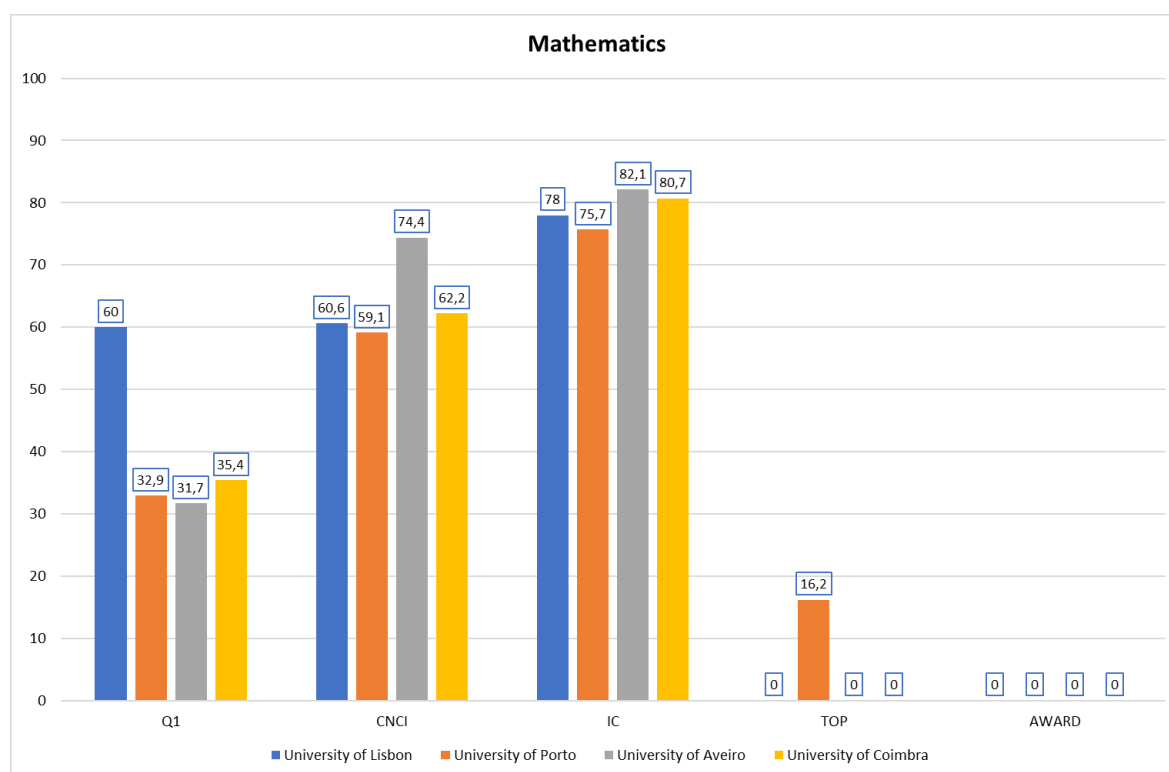
3. As Universidades portuguesas no ShanghaiRanking's Global Ranking of Academic Subjects 2021

3.1 NATURAL SCIENCES

3.1.1 Mathematics

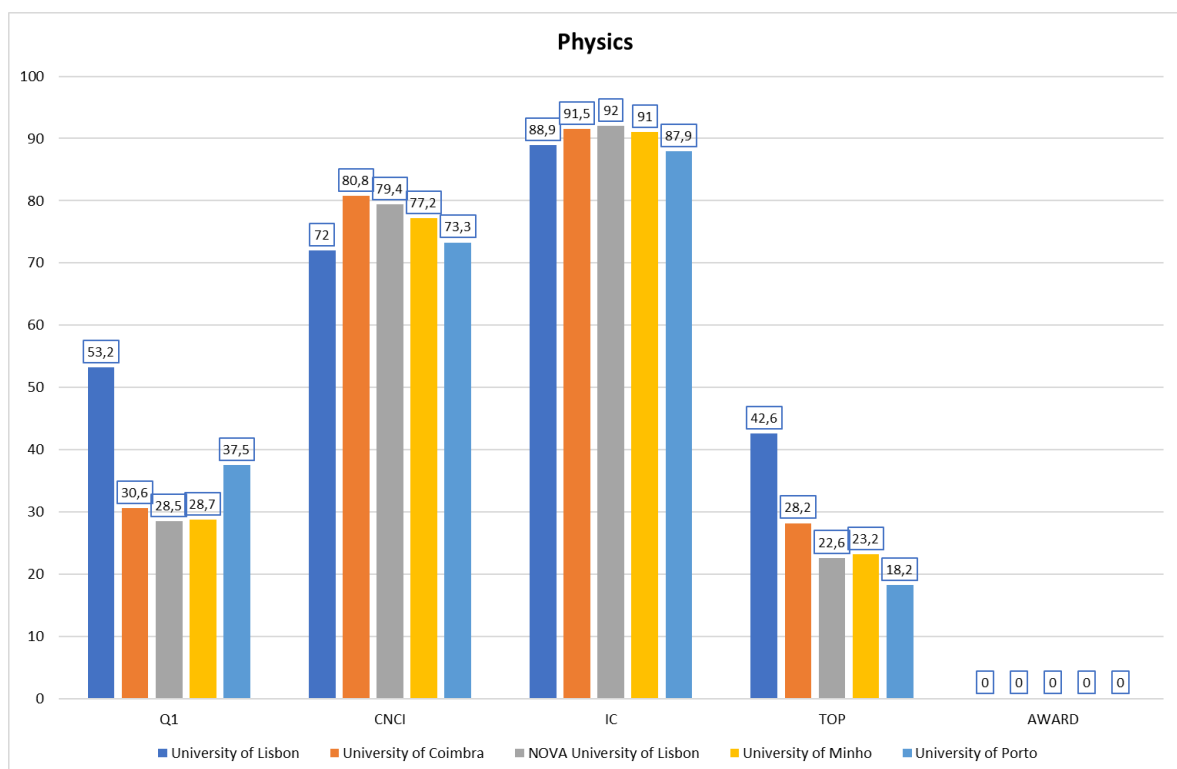
World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
151-200	201-300	201-300	151-200	76-100	1	University of Lisbon		60	60,6	78	0	0
301-400	n/c	n/c	n/c	401-500	2	University of Porto		32,9	59,1	75,7	16,2	0
401-500	301-400	301-400	301-400	201-300	3-4	University of Aveiro		31,7	74,4	82,1	0	0
401-500	n/c	401-500	301-400	301-400	3-4	University of Coimbra		35,4	62,2	80,7	0	0
500	500	500	500	500	4	Nº IES						

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3.1.2 Physics

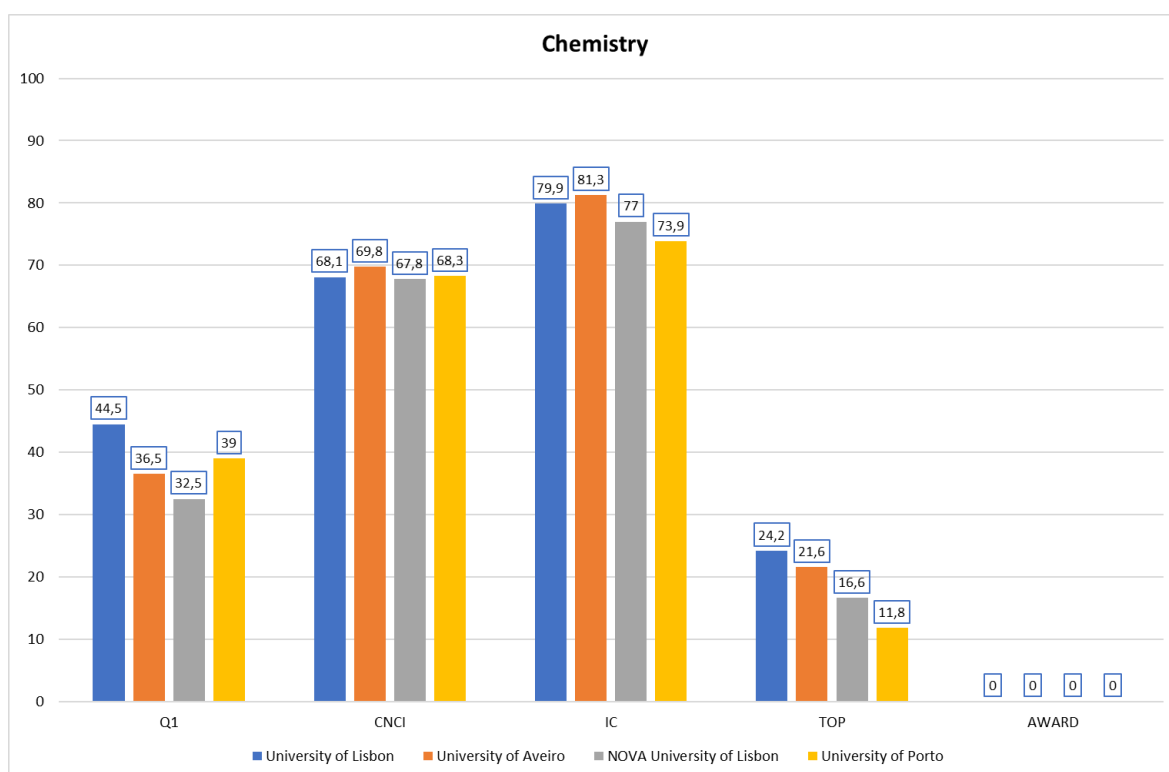
World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
151-200	151-200	151-200	101-150	101-150	1	University of Lisbon		53,2	72	88,9	42,6	0
301-400	301-400	301-400	301-400	301-400	2	University of Coimbra		30,6	80,8	91,5	28,2	0
401-500	301-400	401-500	401-500	401-500	3-5	NOVA University of Lisbon		28,5	79,4	92	22,6	0
401-500	401-500	401-500	301-400	301-400	3-5	University of Minho		28,7	77,2	91	23,2	0
401-500	401-500	401-500	401-500	401-500	3-5	University of Porto		37,5	73,3	87,9	18,2	0
500	500	500	500	500	5	Nº IES						



3.1.3 Chemistry

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
201-300	201-300	201-300	201-300	201-300	1	University of Lisbon		44,5	68,1	79,9	24,2	0
301-400	301-400	301-400	201-300	201-300	2	University of Aveiro		36,5	69,8	81,3	21,6	0
401-500	401-500	301-400	301-400	301-400	3-4	NOVA University of Lisbon		32,5	67,8	77	16,6	0
401-500	401-500	301-400	301-400	201-300	3-4	University of Porto		39	68,3	73,9	11,8	0
n/c	n/c	401-500	401-500	401-500		University of Coimbra						
n/c	n/c	n/c	401-500	401-500		University of Minho						
500	500	500	500	500	4	Nº IES						

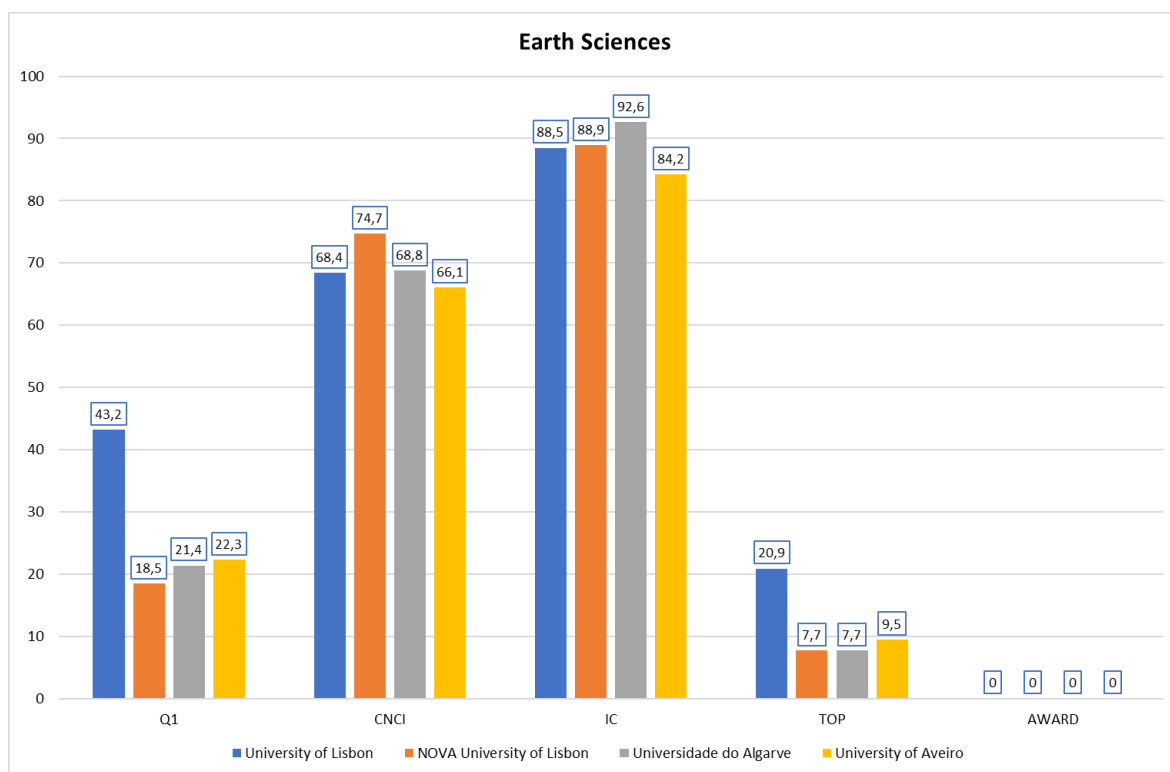
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3.1.4 Earth Sciences

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
201-300	201-300	151-200	151-200	151-200	1	University of Lisbon		43,2	68,4	88,5	20,9	0
401-500	401-500	301-400	301-400	n/c	2-4	NOVA University of Lisbon		18,5	74,7	88,9	7,7	0
401-500	n/c	n/c	n/c	n/c	2-4	Universidade do Algarve		21,4	68,8	92,6	7,7	0
401-500	401-500	401-500	401-500	n/c	2-4	University of Aveiro		22,3	66,1	84,2	9,5	0
n/c	401-500	401-500	301-400	n/c		University of Coimbra						
n/c	n/c	401-500	n/c	n/c		University of Porto						
500	500	500	500	300	4	Nº IES						

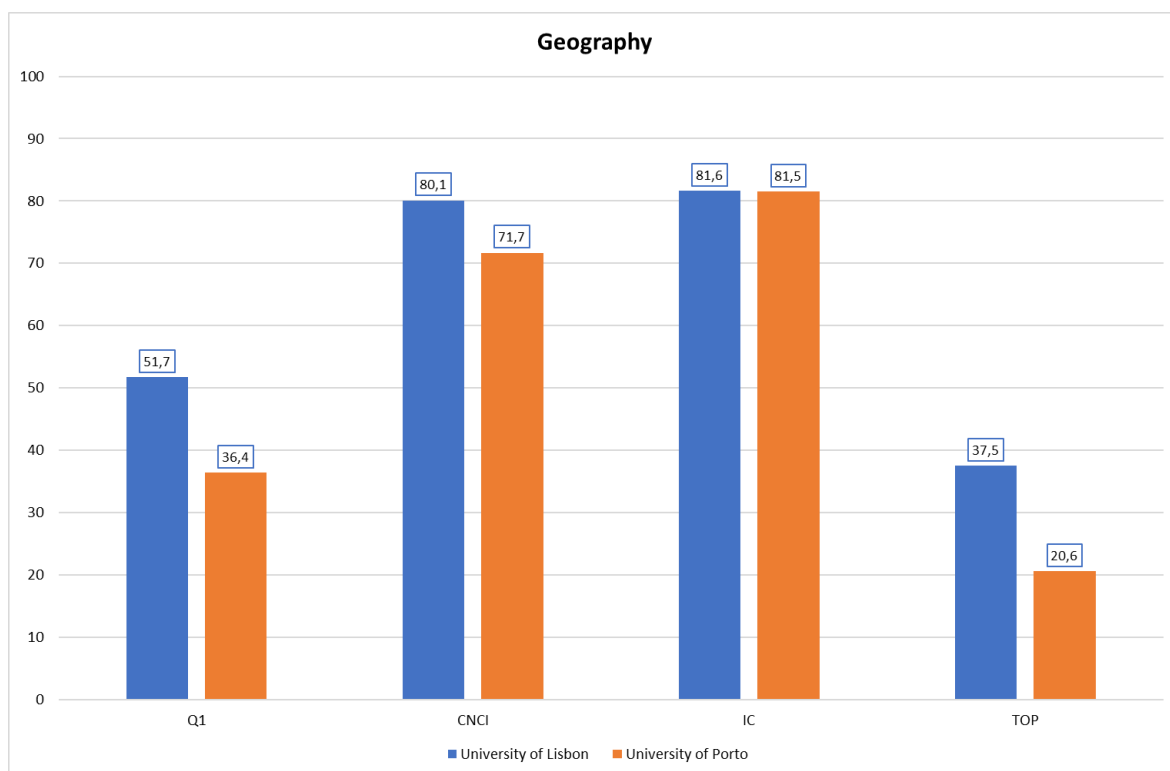
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3.1.5 Geography

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
76-100	151-200	101-150	76-100	101-150	1	University of Lisbon		51,7	80,1	81,6	37,5
201-300	201-300	201-300	n/c	n/c	2	University of Porto		36,4	71,7	81,5	20,6
n/c	n/c	201-300	n/c	n/c		University of Coimbra					
300	300	300	200	200	2	Nº IES					

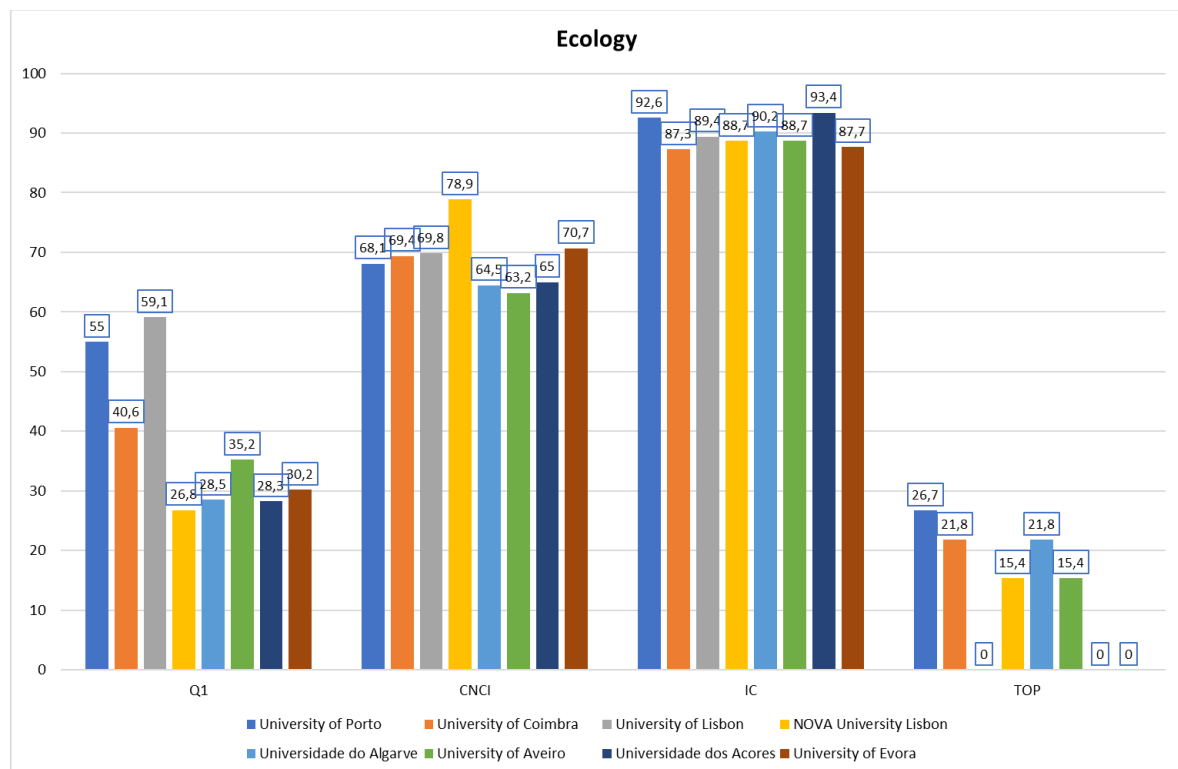
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3.1.6 Ecology

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
151-200	101-150	101-150	101-150	101-150	1	University of Porto		55	68,1	92,6	26,7
201-300	301-400	301-400	301-400	201-300	2-3	University of Coimbra		40,6	69,4	87,3	21,8
201-300	151-200	101-150	101-150	101-150	2-3	University of Lisbon		59,1	69,8	89,4	0
301-400	201-300	301-400	301-400	n/c	4-6	NOVA University Lisbon		26,8	78,9	88,7	15,4
301-400	201-300	301-400	201-300	n/c	4-6	Universidade do Algarve		28,5	64,5	90,2	21,8
301-400	301-400	301-400	301-400	n/c	4-6	University of Aveiro		35,2	63,2	88,7	15,4
401-500	401-500	401-500	301-400	201-300	7-8	Universidade dos Acores		28,3	65	93,4	0
401-500	201-300	201-300	201-300	151-200	7-8	University of Evora		30,2	70,7	87,7	0
500	500	500	400	300	8	Nº IES					

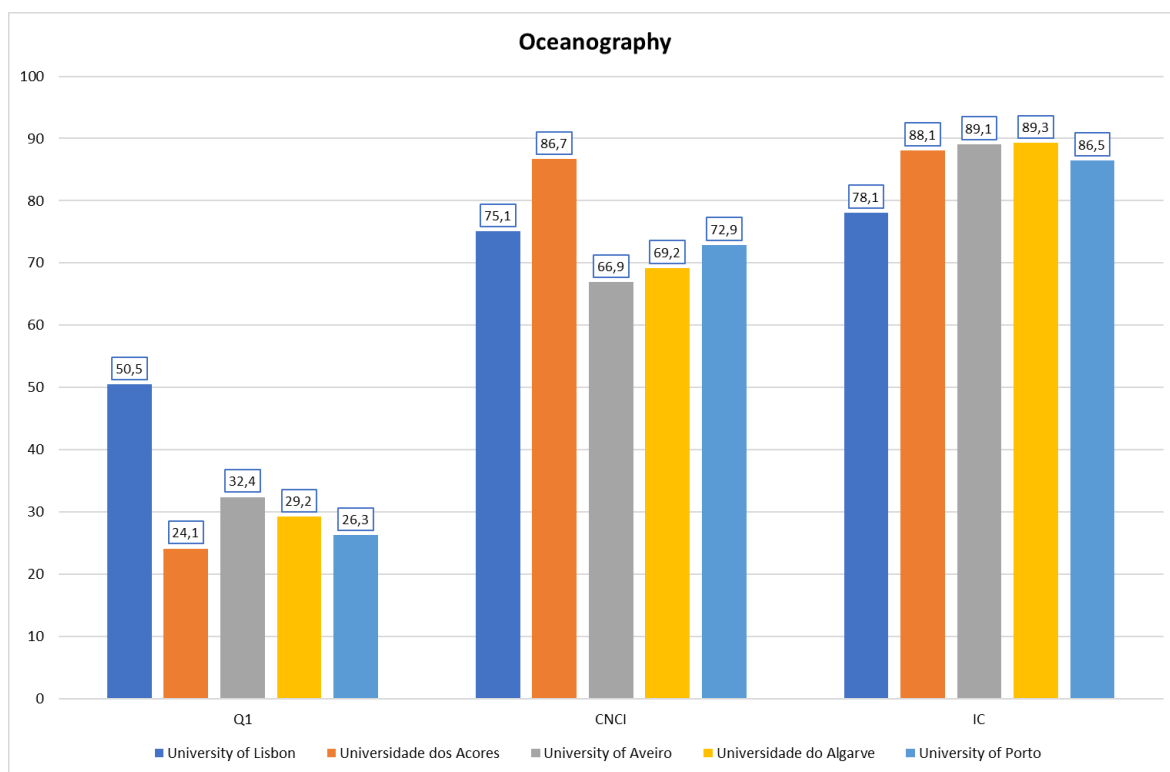
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3.1.7 Oceanography

Área nova 2018

World Rank 21	World Rank 20	World Rank 19	World Rank 18	PT Rank	Institution	Total Score	Q1	CNCI	IC
44	51-75	51-75	51-75	1	University of Lisbon	191,7	50,5	75,1	78,1
101-150	151-200	101-150	151-200	2-3	Universidade dos Acores		24,1	86,7	88,1
101-150	101-150	101-150	101-150	2-3	University of Aveiro		32,4	66,9	89,1
151-200	101-150	101-150	101-150	4-5	Universidade do Algarve		29,2	69,2	89,3
151-200	151-200	151-200	151-200	4-5	University of Porto		26,3	72,9	86,5
200	200	200	200	5	Nº IES				

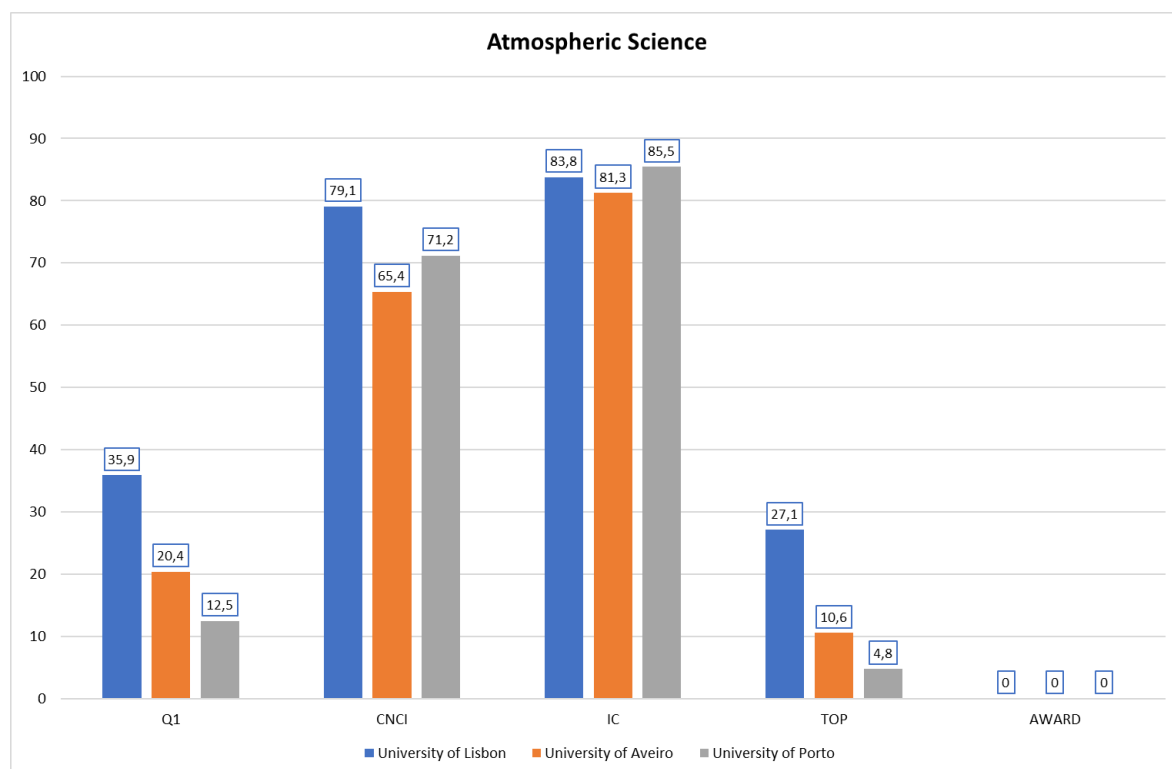


3.1.8 Atmospheric Science

Área nova 2018

World Rank21	World Rank20	World Rank19	World Rank18	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
101-150	101-150	101-150	76-100	1	University of Lisbon		35,9	79,1	83,8	27,1	0
301-400	301-400	201-300	201-300	2-3	University of Aveiro		20,4	65,4	81,3	10,6	0
301-400	n/c	301-400	301-400	2-3	University of Porto		12,5	71,2	85,5	4,8	0
n/c	n/c	301-400	301-400		University of Evora						
400	400	400	400	3	Nº IES						

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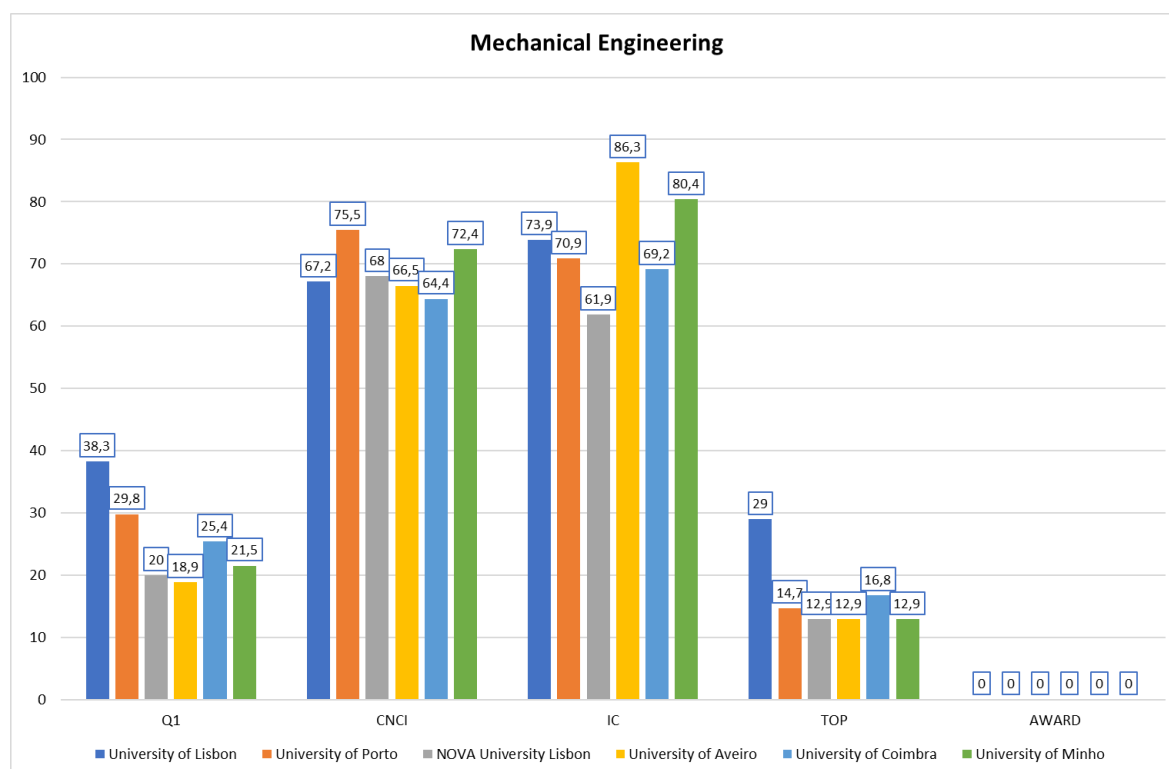


3.2 ENGINEERING

3.2.1 Mechanical Engineering

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
101-150	151-200	151-200	101-150	101-150	1	University of Lisbon		38,3	67,2	73,9	29	0
201-300	201-300	201-300	151-200	151-200	2	University of Porto		29,8	75,5	70,9	14,7	0
301-400	301-400	n/c	n/c	n/c	3-6	NOVA University Lisbon		20	68	61,9	12,9	0
301-400	301-400	301-400	n/c	201-300	3-6	University of Aveiro		18,9	66,5	86,3	12,9	0
301-400	301-400	301-400	n/c	n/c	3-6	University of Coimbra		25,4	64,4	69,2	16,8	0
301-400	301-400	301-400	201-300	201-300	3-6	University of Minho		21,5	72,4	80,4	12,9	0
400	400	400	300	300	6	Nº IES						

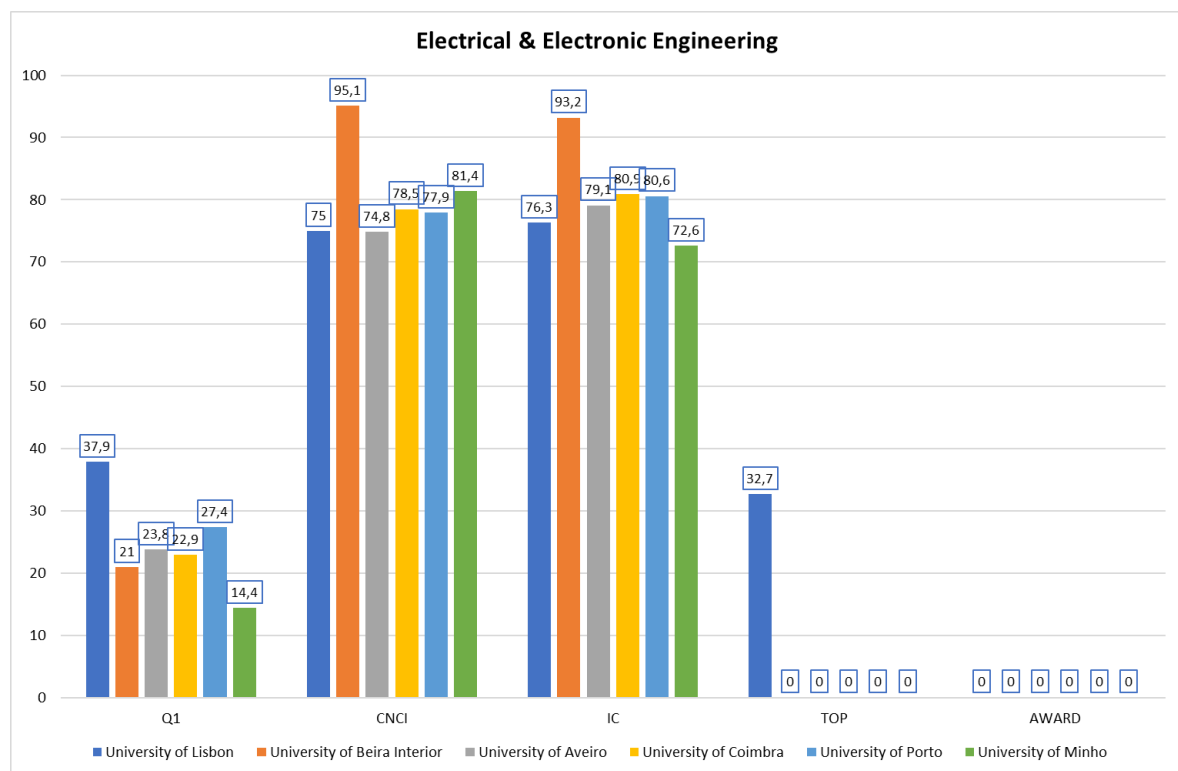
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3.2.2 Electrical & Electronic Engineering

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
101-150	76-100	51-75	51-75	76-100	1	University of Lisbon		37,9	75	76,3	32,7	0
201-300	201-300	201-300	n/c	301-400	2	University of Beira Interior		21	95,1	93,2	0	0
301-400	201-300	201-300	301-400	301-400	3-5	University of Aveiro		23,8	74,8	79,1	0	0
301-400	301-400	301-400	101-150	151-200	3-5	University of Coimbra		22,9	78,5	80,9	0	0
301-400	301-400	301-400	301-400	201-300	3-5	University of Porto		27,4	77,9	80,6	0	0
401-500	301-400	n/c	n/c	n/c	6	University of Minho		14,4	81,4	72,6	0	0
500	500	500	500	500	6	Nº IES						

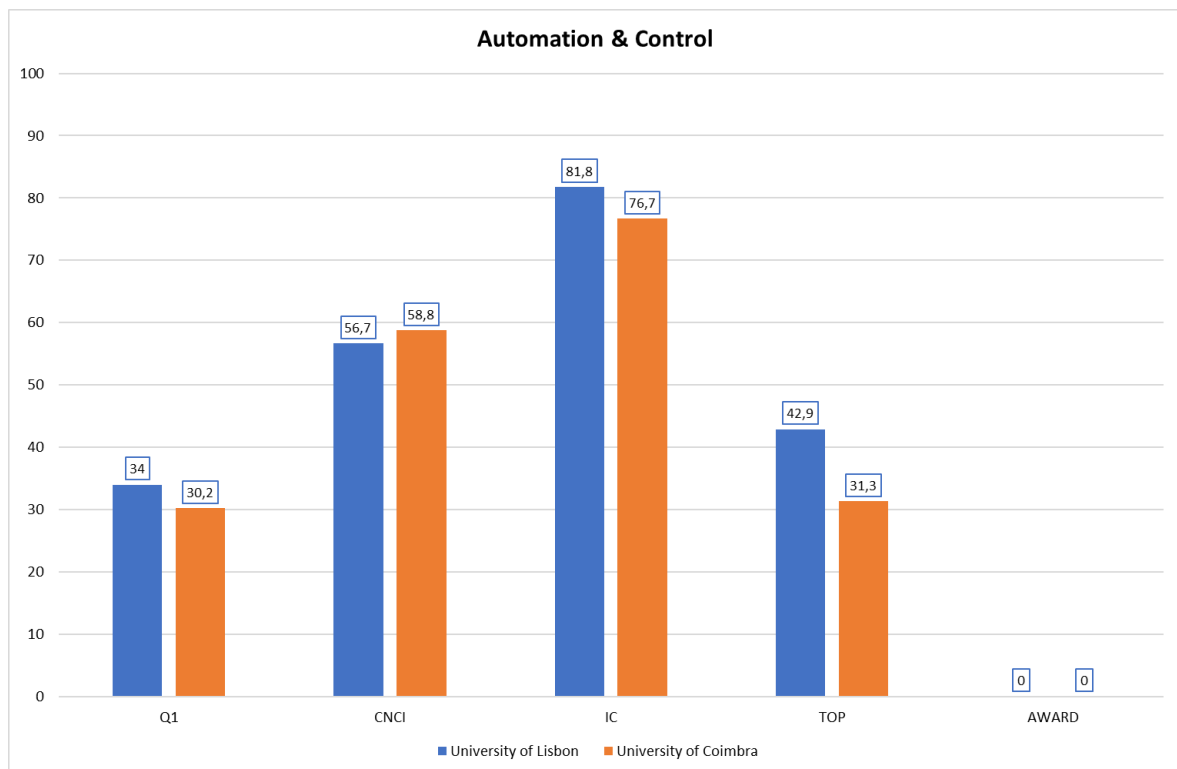
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3.2.3 Automation & Control

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
101-150	101-150	76-100	76-100	76-100	1	University of Lisbon		34	56,7	81,8	42,9	0
151-200	151-200	101-150	101-150	76-100	2	University of Coimbra		30,2	58,8	76,7	31,3	0
n/c	151-200	151-200	101-150	n/c		University of Porto						
200	200	200	200	100	2	Nº IES						

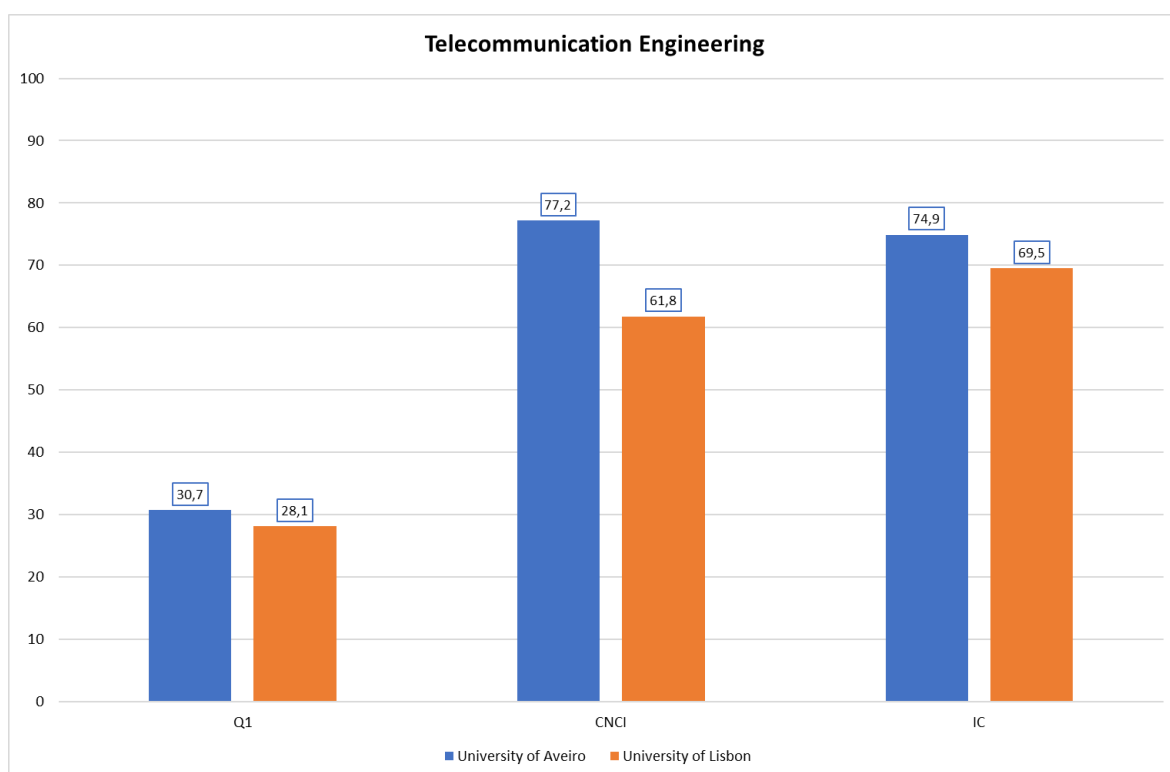
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3.2.4 Telecommunication Engineering

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC
101-150	151-200	151-200	151-200	151-200	1	University of Aveiro		30,7	77,2	74,9
201-300	201-300	201-300	151-200	151-200	2	University of Lisbon		28,1	61,8	69,5
n/c	n/c	n/c	51-75	n/c		University of Coimbra				
300	300	300	200	200	2	Nº IES				

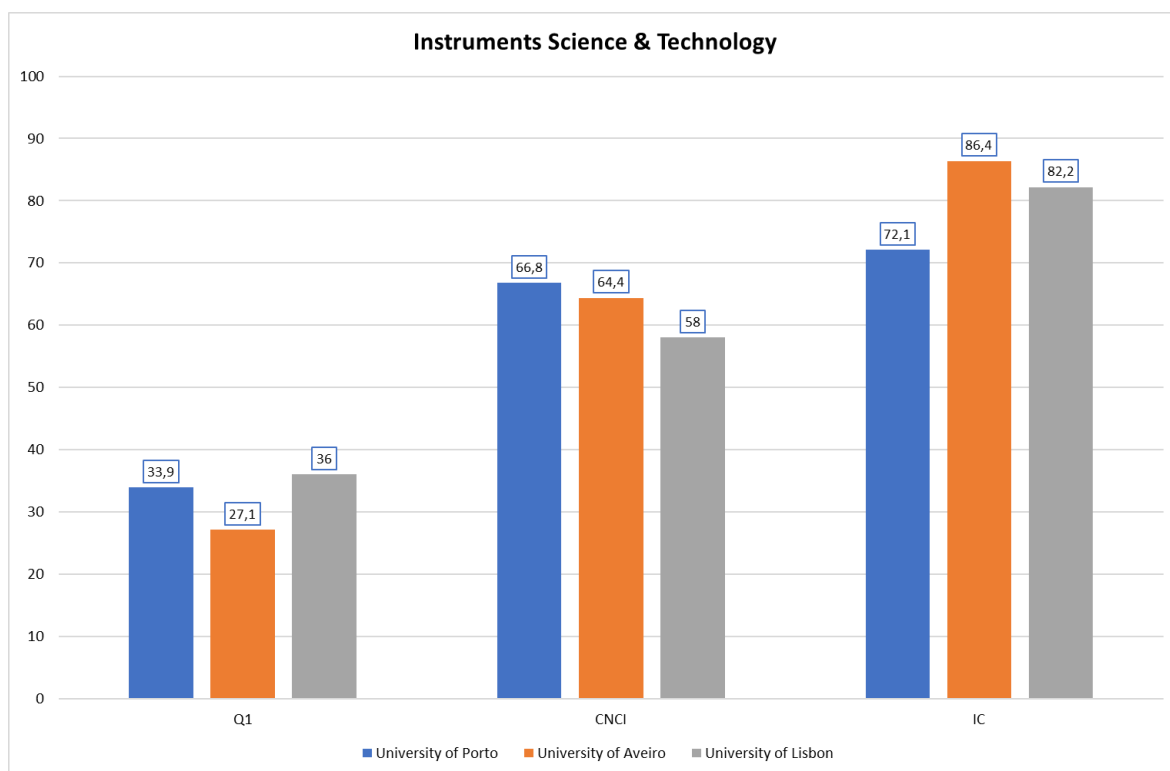
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3.2.5 Instruments Science & Technology

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC
151-200	201-300	201-300	151-200	151-200	1	University of Porto		33,9	66,8	72,1
201-300	201-300	201-300	201-300	201-300	2-3	University of Aveiro		27,1	64,4	86,4
201-300	201-300	101-150	51-75	51-75	2-3	University of Lisbon		36	58	82,2
n/c	n/c	151-200	51-75	101-150		University of Coimbra				
300	300	300	300	300	3	Nº IES				

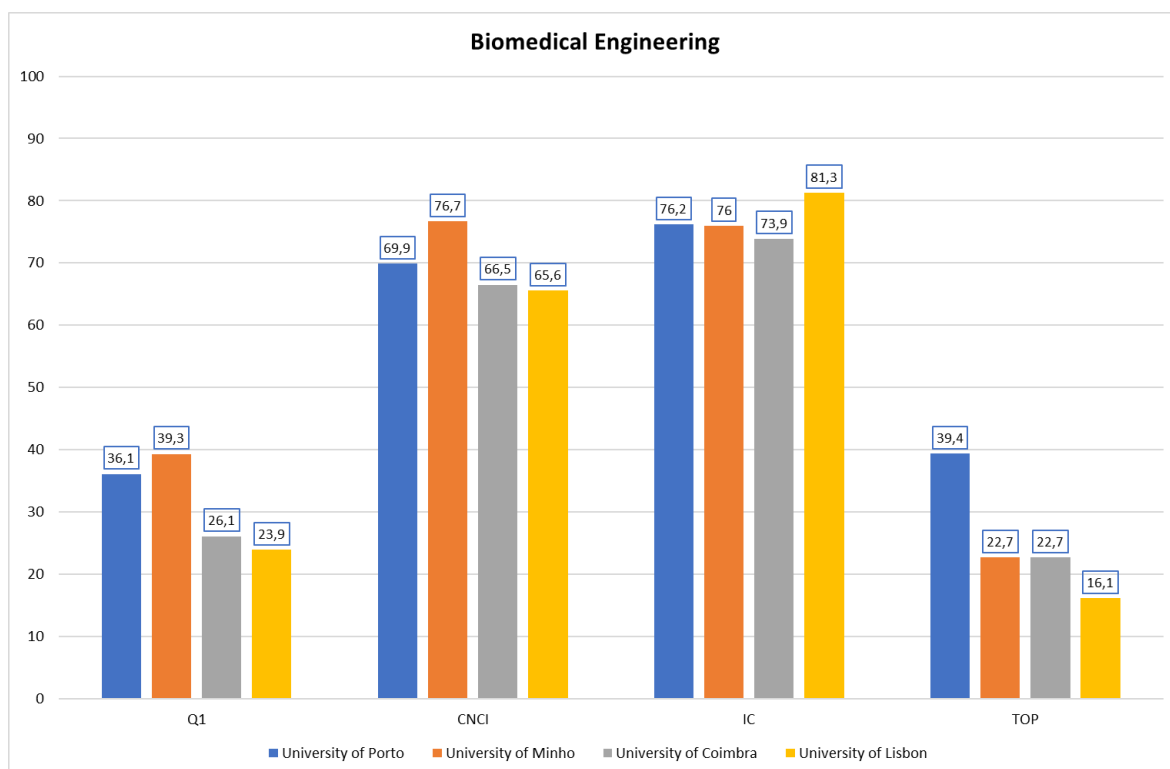
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3.2.6 Biomedical Engineering

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
76-100	76-100	76-100	101-150	151-200	1	University of Porto		36,1	69,9	76,2	39,4
101-150	101-150	101-150	101-150	76-100	2	University of Minho		39,3	76,7	76	22,7
201-300	201-300	201-300	201-300	n/c	3-4	University of Coimbra		26,1	66,5	73,9	22,7
201-300	201-300	201-300	201-300	201-300	3-4	University of Lisbon		23,9	65,6	81,3	16,1
300	300	300	300	300	4	Nº IES					

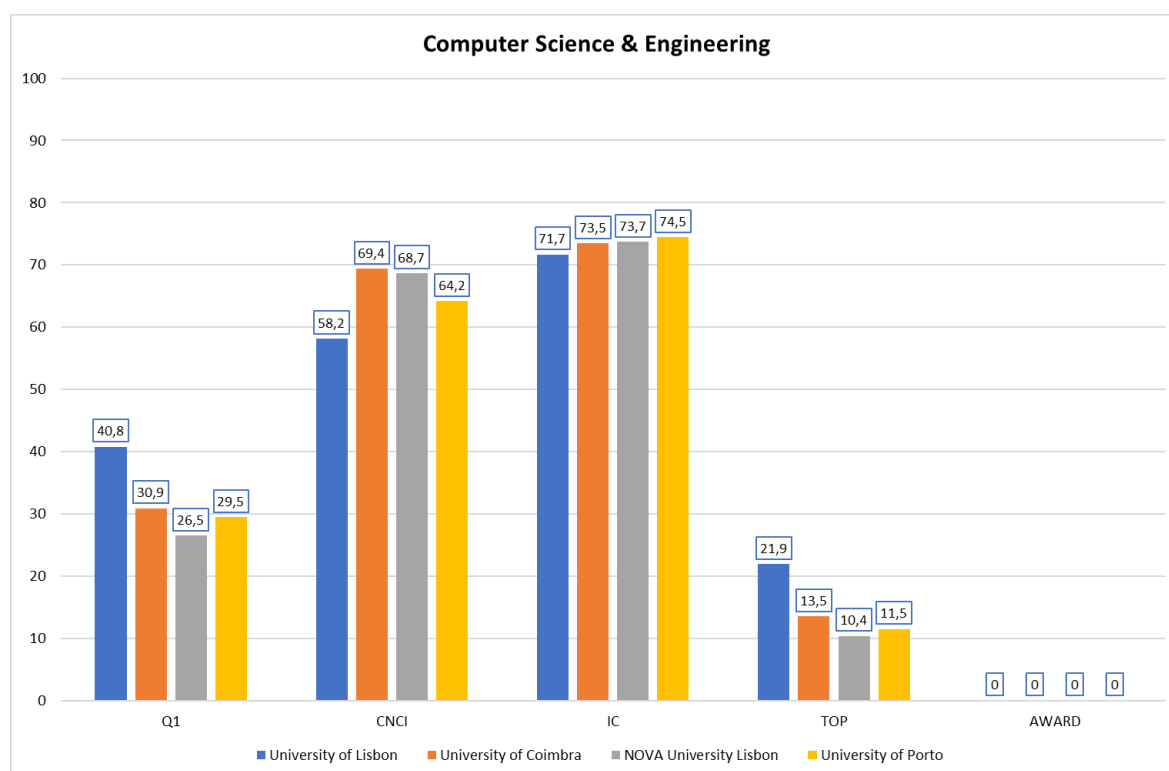
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3.2.7 Computer Science & Engineering

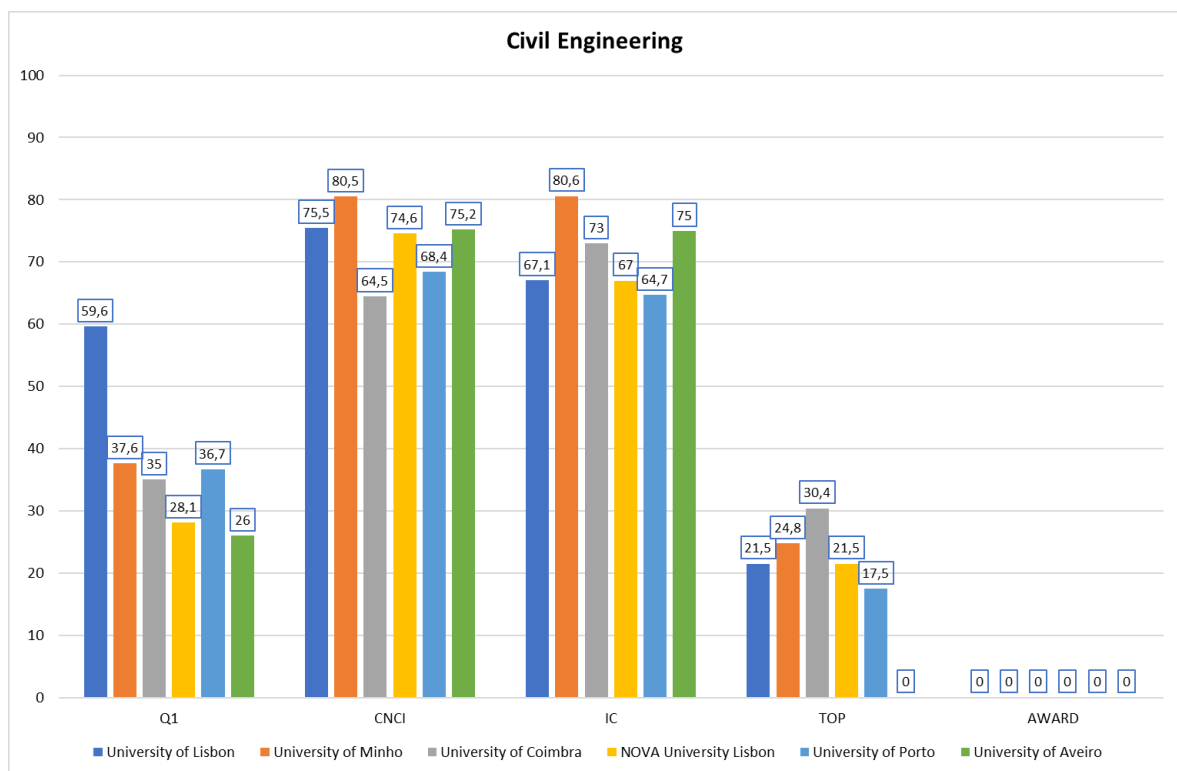
World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
201-300	201-300	151-200	151-200	76-100	1	University of Lisbon		40,8	58,2	71,7	21,9	0
301-400	201-300	201-300	101-150	151-200	2	University of Coimbra		30,9	69,4	73,5	13,5	0
401-500	401-500	401-500	301-400	401-500	3-4	NOVA University Lisbon		26,5	68,7	73,7	10,4	0
401-500	301-400	301-400	401-500	101-150	3-4	University of Porto		29,5	64,2	74,5	11,5	0
n/c	401-500	401-500	401-500	n/c		University of Beira Interior						
n/c	401-500	401-500	401-500	301-400		University of Minho						
n/c	n/c	n/c	n/c	401-500		University of Aveiro						
500	500	500	500	500	4	Nº IES						

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3.2.8 Civil Engineering

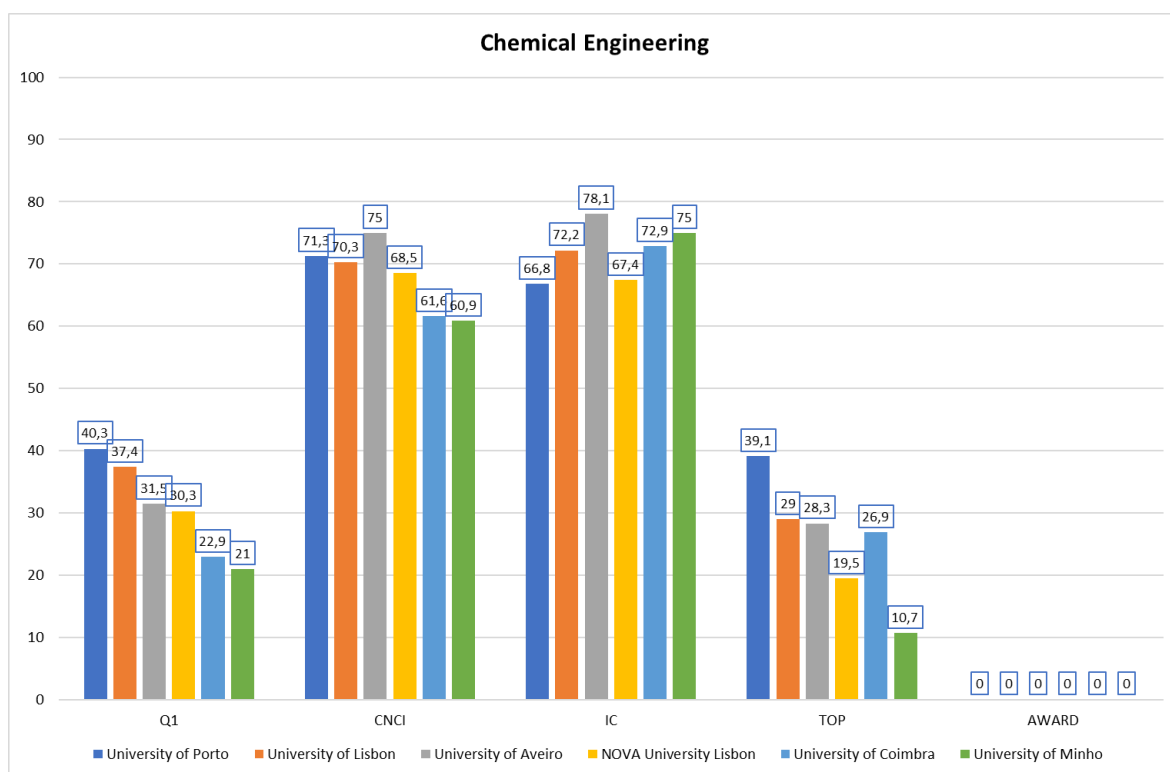
World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
51-75	51-75	48	45	43	1	University of Lisbon		59,6	75,5	67,1	21,5	0
76-100	76-100	51-75	76-100	76-100	2	University of Minho		37,6	80,5	80,6	24,8	0
101-150	76-100	76-100	51-75	51-75	3	University of Coimbra		35	64,5	73	30,4	0
151-200	101-150	151-200	151-200	151-200	4-5	NOVA University Lisbon		28,1	74,6	67	21,5	0
151-200	101-150	101-150	101-150	201-300	4-5	University of Porto		36,7	68,4	64,7	17,5	0
201-300	201-300	201-300	201-300	201-300	6	University of Aveiro		26	75,2	75	0	0
300	300	300	300	300	6	Nº IES						



3.2.9 Chemical Engineering

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
76-100	76-100	51-75	41	29	1	University of Porto		40,3	71,3	66,8	39,1	0
101-150	101-150	101-150	101-150	101-150	2	University of Lisbon		37,4	70,3	72,2	29	0
151-200	101-150	101-150	101-150	101-150	3	University of Aveiro		31,5	75	78,1	28,3	0
201-300	201-300	301-400	201-300	201-300	4	NOVA University Lisbon		30,3	68,5	67,4	19,5	0
301-400	301-400	301-400	201-300	n/c	5	University of Coimbra		22,9	61,6	72,9	26,9	0
401-500	401-500	301-400	301-400	201-300	6	University of Minho		21	60,9	75	10,7	0
500	500	500	500	300	6	Nº IES						

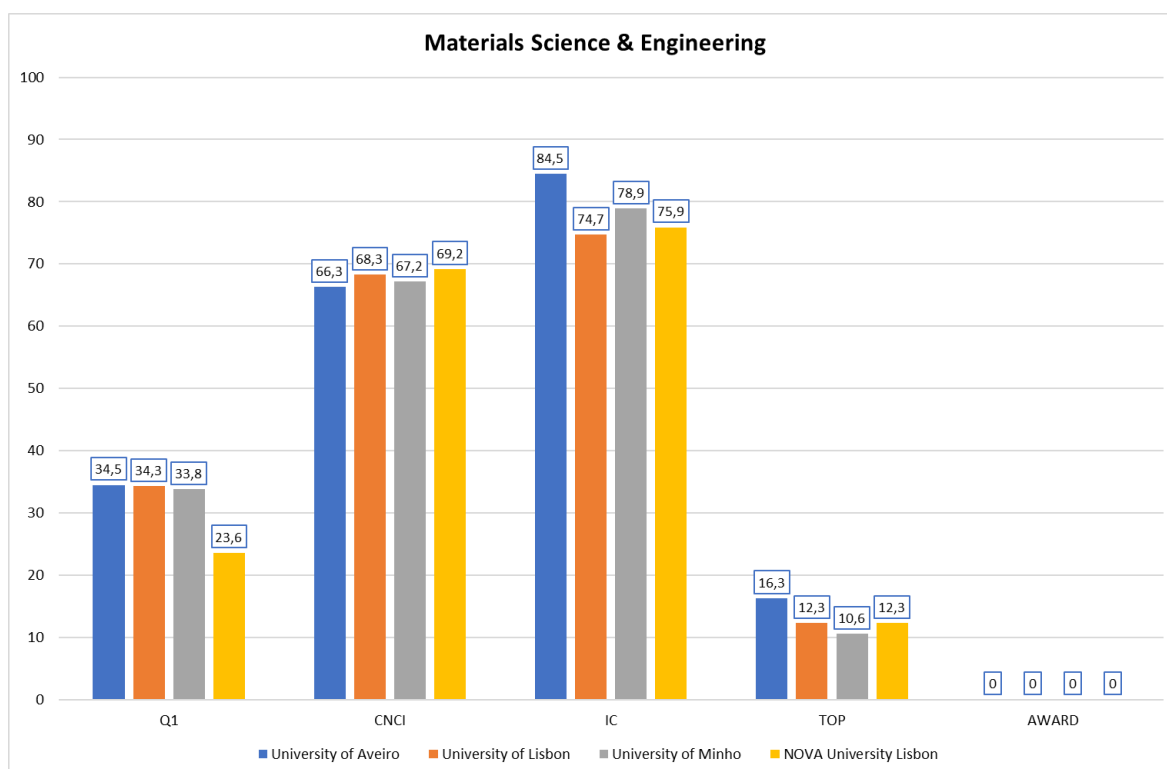
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3.2.10 Materials Science & Engineering

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
301-400	201-300	201-300	301-400	201-300	1-3	University of Aveiro		34,5	66,3	84,5	16,3	0
301-400	301-400	301-400	201-300	201-300	1-3	University of Lisbon		34,3	68,3	74,7	12,3	0
301-400	301-400	201-300	301-400	301-400	1-3	University of Minho		33,8	67,2	78,9	10,6	0
401-500	401-500	401-500	401-500	401-500	4	NOVA University Lisbon		23,6	69,2	75,9	12,3	0
n/c	401-500	301-400	201-300	201-300		University of Porto						
n/c	n/c	n/c	401-500	401-500		University of Coimbra						
500	500	500	500	500	4	Nº IES						

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3.2.11 Nanoscience & Nanotechnology

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

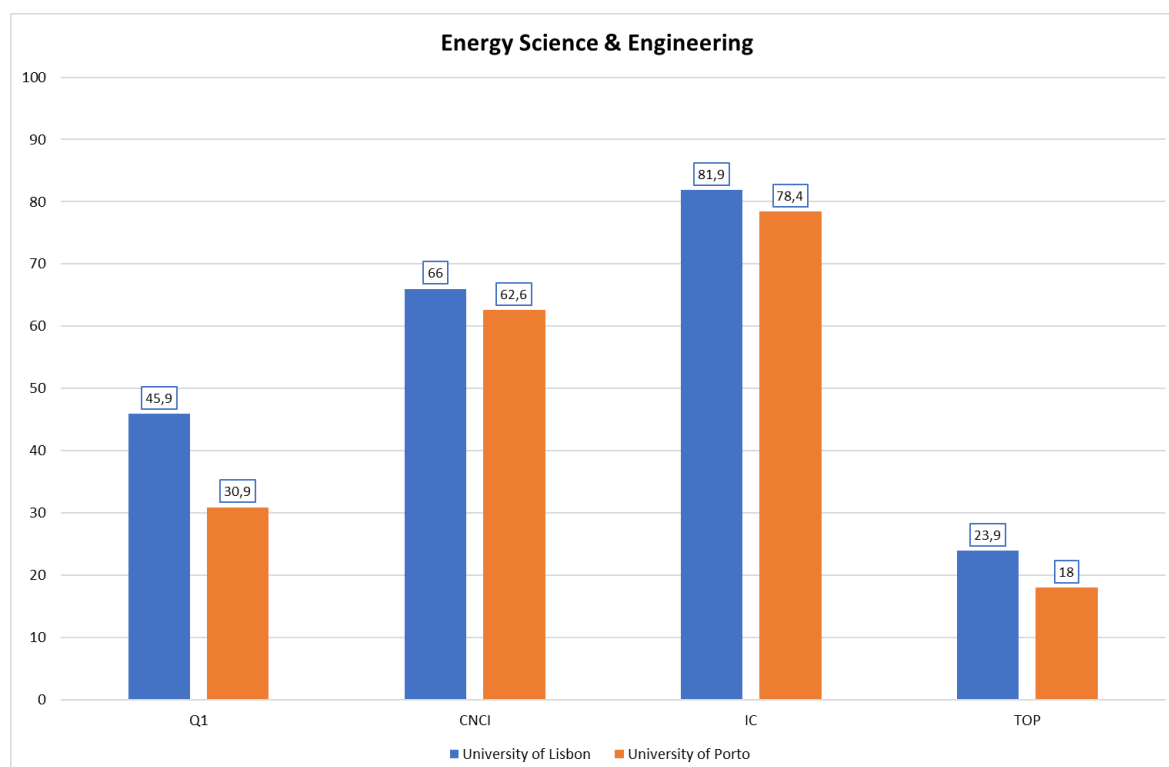
World Rank21	World Rank20	World Rank19	World Rank18	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
301-400	301-400	301-400	201-300	1	University of Aveiro		21,8	64,4	88,3	18,8
n/c	301-400	301-400	301-400		University of Minho					
n/c	n/c	301-400	301-400		University of Lisbon					
n/c	n/c	301-400	301-400		University of Porto					
400	400	400	400	1	Nº IES					

n/c - não consta

3.2.12 Energy Science & Engineering

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
101-150	101-150	101-150	101-150	151-200	1	University of Lisbon		45,9	66	81,9	23,9
201-300	201-300	201-300	201-300	201-300	2	University of Porto		30,9	62,6	78,4	18
n/c	301-400	401-500	301-400	201-300		University of Aveiro					
n/c	301-400	301-400	201-300	n/c		University of Coimbra					
n/c	n/c	401-500	n/c	n/c		University of Beira Interior					
n/c	n/c	n/c	401-500	n/c		New University of Lisbon					
400	400	500	500	300	2	Nº IES					

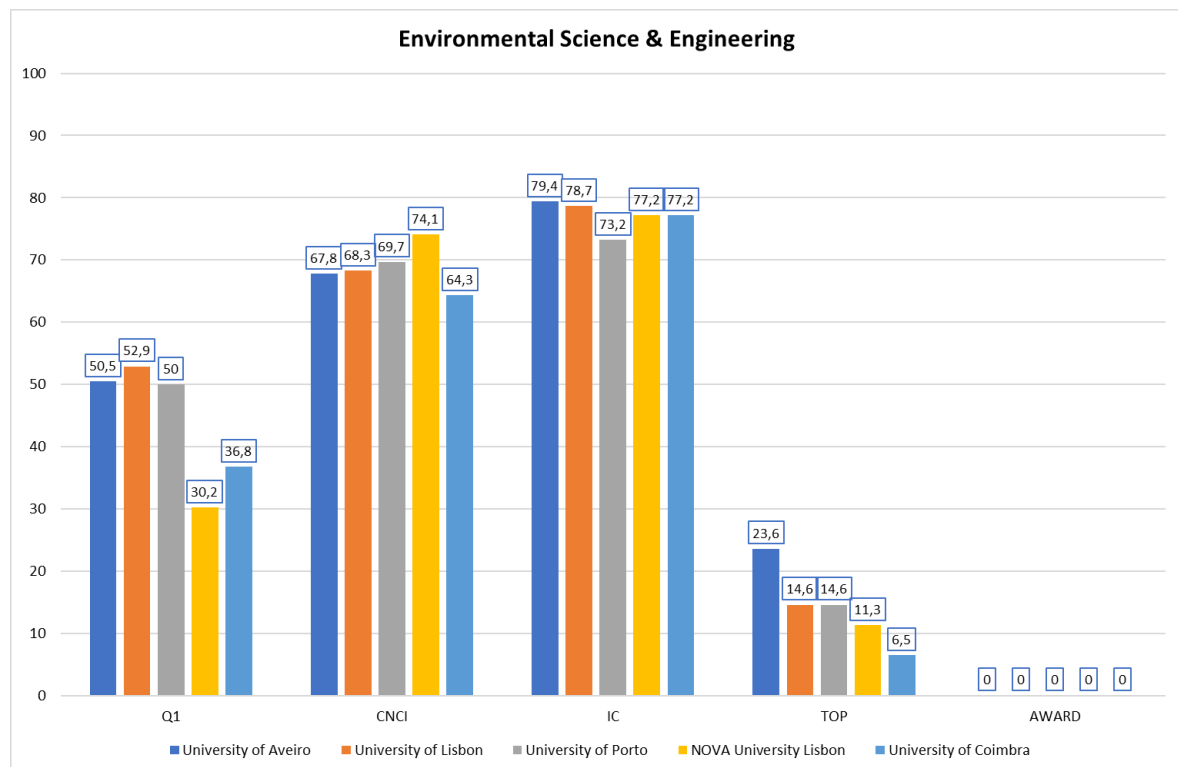
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3.2.13 Environmental Science & Engineering

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
151-200	151-200	151-200	151-200	151-200	1	University of Aveiro		50,5	67,8	79,4	23,6	0
201-300	151-200	151-200	101-150	101-150	2-3	University of Lisbon		52,9	68,3	78,7	14,6	0
201-300	201-300	151-200	151-200	151-200	2-3	University of Porto		50	69,7	73,2	14,6	0
301-400	301-400	301-400	301-400	301-400	4	NOVA University Lisbon		30,2	74,1	77,2	11,3	0
401-500	401-500	301-400	301-400	301-400	5	University of Coimbra		36,8	64,3	77,2	6,5	0
n/c	401-500	401-500	401-500	n/c		Universidade do Algarve						
n/c	n/c	n/c	401-500	n/c		University of Minho						
500	500	500	500	500	5	Nº IES						

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3.2.14 Water Resources

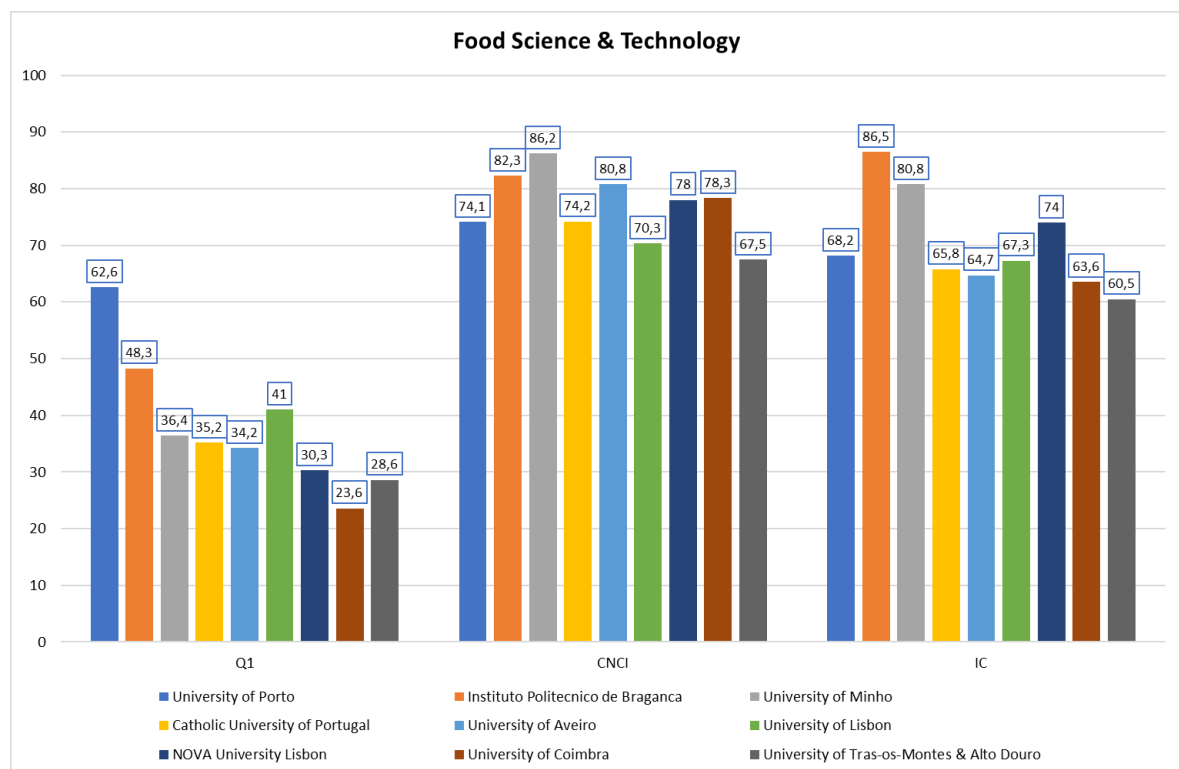
World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
101-150	101-150	51-75	51-75	18	1	University of Lisbon		62,1	68,9	79,2	27,1	0
n/c	n/c	n/c	n/c	151-200		University of Porto						
200	200	200	200	200	1	Nº IES						

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3.2.15 Food Science & Technology

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC
15	15	11	12	11	1	University of Porto	213	62,6	74,1	68,2
29	30	35	33	50	2	Instituto Politecnico de Braganca	196,3	48,3	82,3	86,5
51-75	51-75	51-75	51-75	76-100	3	University of Minho		36,4	86,2	80,8
101-150	101-150	151-200	101-150	101-150	4-6	Catholic University of Portugal		35,2	74,2	65,8
101-150	101-150	101-150	101-150	101-150	4-6	University of Aveiro		34,2	80,8	64,7
101-150	101-150	76-100	76-100	51-75	4-6	University of Lisbon		41	70,3	67,3
151-200	101-150	101-150	101-150	101-150	7	NOVA University Lisbon		30,3	78	74
201-300	201-300	n/c	n/c	201-300	8-9	University of Coimbra		23,6	78,3	63,6
201-300	201-300	201-300	201-300	201-300	8-9	University of Tras-os-Montes & Alto Douro		28,6	67,5	60,5
300	300	300	300	300	9	Nº IES				

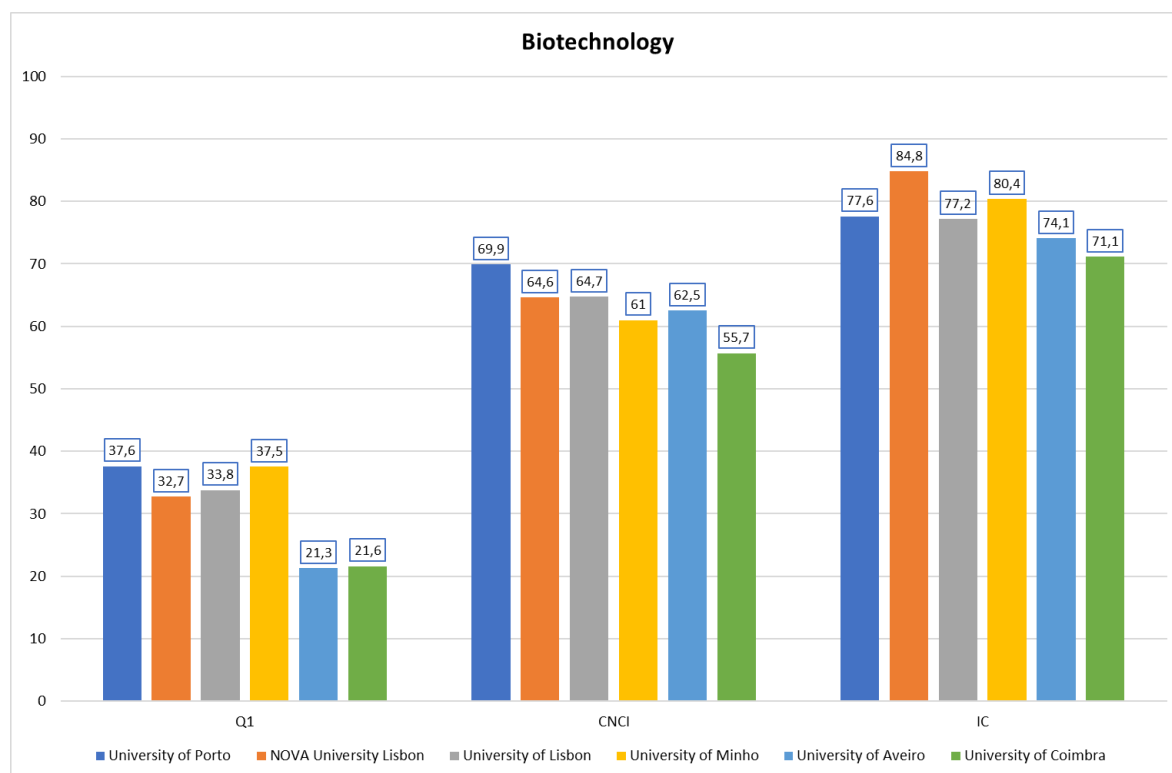
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3.2.16 Biotechnology

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC
151-200	151-200	201-300	151-200	201-300	1	University of Porto		37,6	69,9	77,6
201-300	201-300	201-300	201-300	151-200	2-4	NOVA University Lisbon		32,7	64,6	84,8
201-300	201-300	201-300	151-200	201-300	2-4	University of Lisbon		33,8	64,7	77,2
201-300	201-300	151-200	151-200	151-200	2-4	University of Minho		37,5	61	80,4
401-500	401-500	401-500	301-400	n/c	5-6	University of Aveiro		21,3	62,5	74,1
401-500	n/c	n/c	401-500	n/c	5-6	University of Coimbra		21,6	55,7	71,1
500	500	500	500	300	6	Nº IES				

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3.2.17 Aerospace Engineering

Como em 2017, 2018, 2019 e 2020, não há nenhuma IES portuguesa entre as 50 listadas.

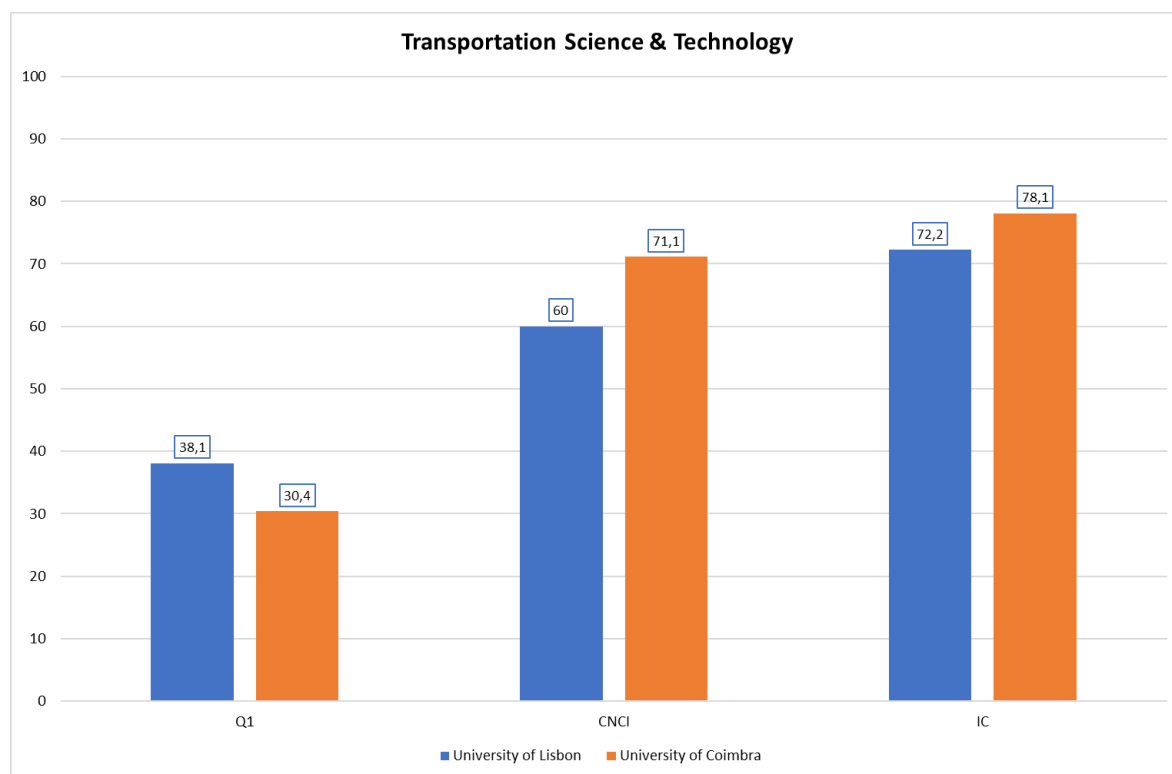
3.2.18 Marine/Ocean Engineering

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
6	6	5	4	3	1	University of Lisbon	243,2	68,9	80,3	73,7	67,7	57,7
50	50	50	50	50	1	Nº IES						

3.2.19 Transportation Science & Technology

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC
101-150	101-150	101-150	101-150	76-100	1	University of Lisbon		38,1	60	72,2
151-200	101-150	101-150	51-75	76-100	2	University of Coimbra		30,4	71,1	78,1
n/c	151-200	151-200	151-200	n/c		University of Porto				
200	200	200	200	100	2	Nº IES				

n/c - não consta



3.2.20 Remote Sensing

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
50	38	19	10	8	1	University of Lisbon	154	27,4	77,5	87,9	31,5
n/c	n/c	n/c	11	n/c		University of Coimbra					
100	100	100	100	50	1	Nº IES					

n/c - não consta

3.2.21 Mining & Mineral Engineering

Como em 2017, 2018, 2019 e 2020, não há nenhuma IES portuguesa entre as 100 listadas (50 em 2017).

3.2.22 Metallurgical Engineering

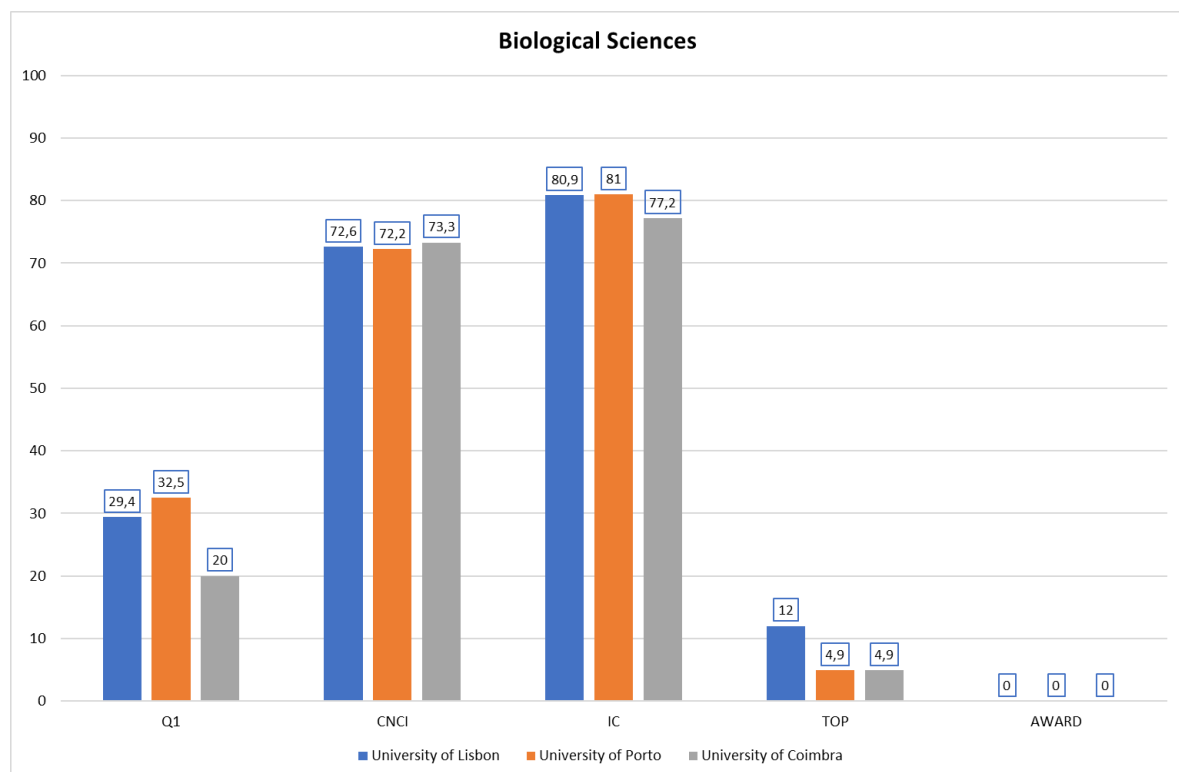
Como em 2018, 2019 e 2020, não há nenhuma IES portuguesa entre as 200 listadas. Em 2017, a U.Aveiro estava em 101-150 e Universidade de Lisboa em 151-200.

3.3 LIFE SCIENCES

3.3.1 Biological Sciences

World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
201-300	201-300	151-200	151-200	201-300	1-2	University of Lisbon		29,4	72,6	80,9	12	0
201-300	301-400	201-300	151-200	201-300	1-2	University of Porto		32,5	72,2	81	4,9	0
401-500	401-500	301-400	301-400	301-400	3	University of Coimbra		20	73,3	77,2	4,9	0
n/c	301-400	301-400	301-400	301-400		New University of Lisbon						
n/c	n/c	401-500	401-500	401-500		University of Aveiro						
500	500	500	500	500	3	Nº IES						

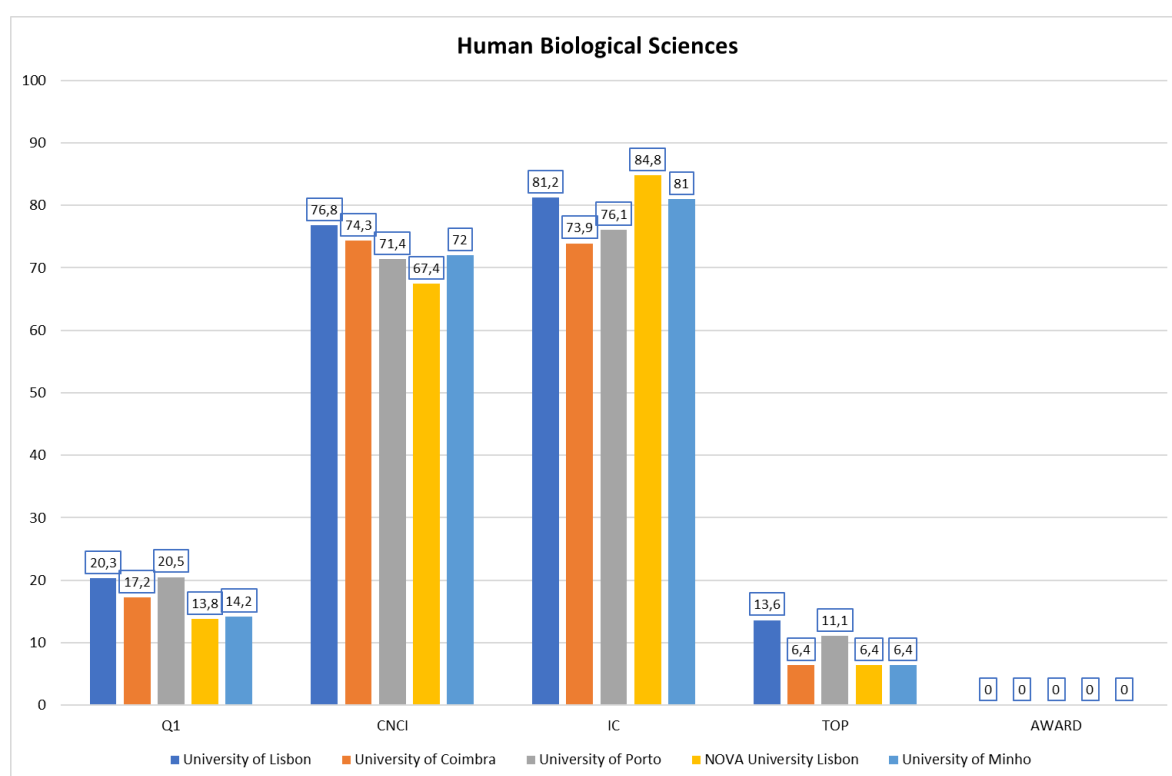
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3.3.2 Human Biological Sciences

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
201-300	201-300	201-300	201-300	201-300	1	University of Lisbon		20,3	76,8	81,2	13,6	0
301-400	401-500	201-300	201-300	201-300	2-3	University of Coimbra		17,2	74,3	73,9	6,4	0
301-400	301-400	201-300	201-300	201-300	2-3	University of Porto		20,5	71,4	76,1	11,1	0
401-500	401-500	401-500	401-500	401-500	4-5	NOVA University Lisbon		13,8	67,4	84,8	6,4	0
401-500	n/c	401-500	n/c	n/c	4-5	University of Minho		14,2	72	81	6,4	0
500	500	500	500	500	5	Nº IES						

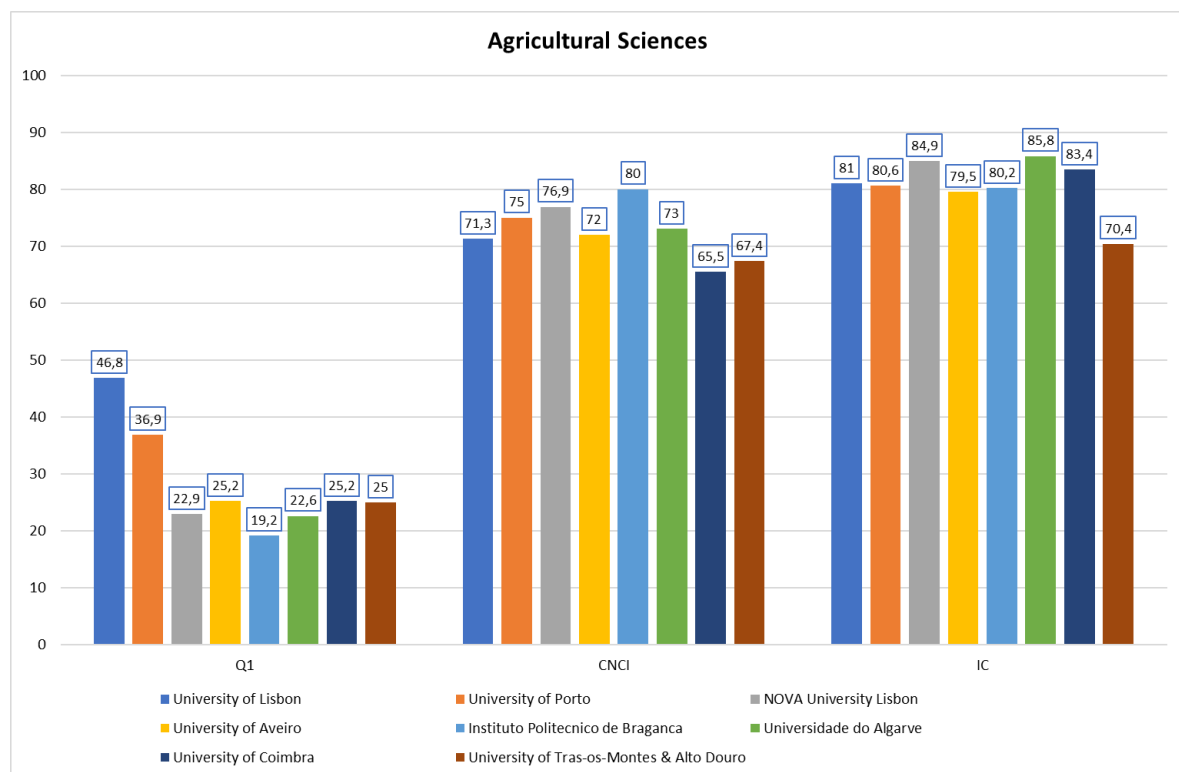
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3.3.3 Agricultural Sciences

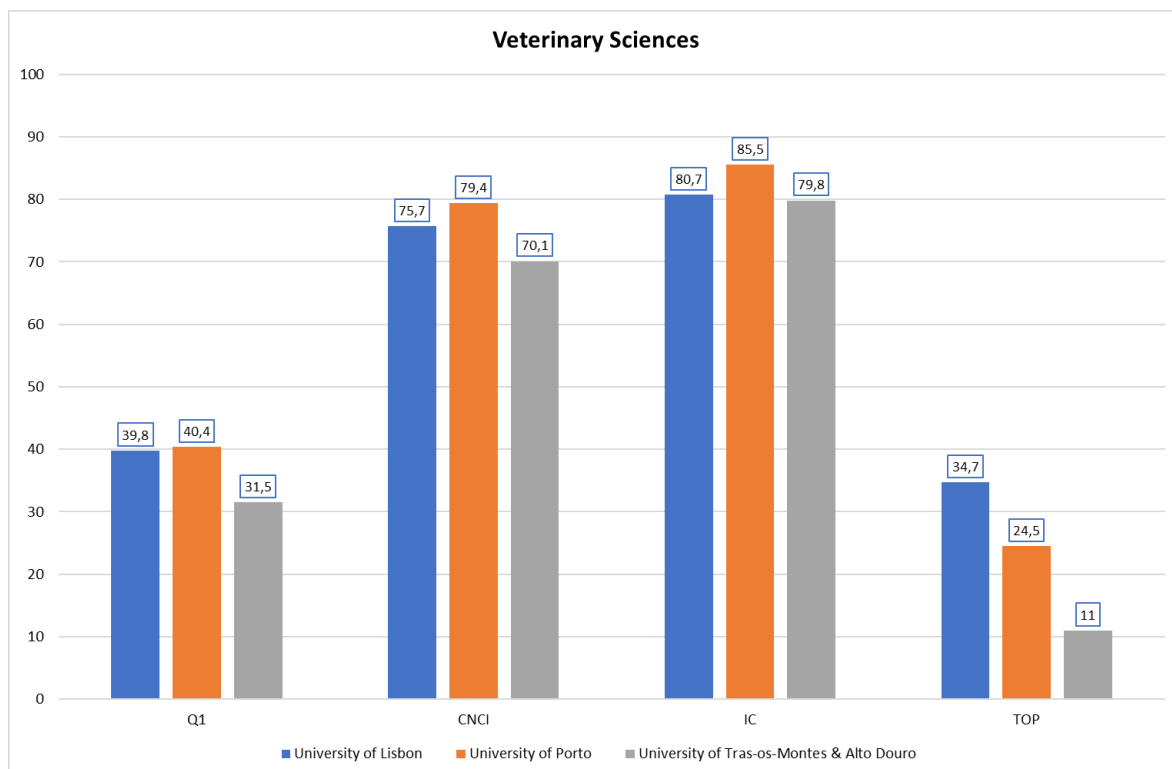
World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC
76-100	51-75	51-75	51-75	51-75	1	University of Lisbon		46,8	71,3	81
101-150	101-150	101-150	151-200	151-200	2	University of Porto		36,9	75	80,6
301-400	301-400	301-400	301-400	301-400	3-4	NOVA University Lisbon		22,9	76,9	84,9
301-400	301-400	301-400	201-300	301-400	3-4	University of Aveiro		25,2	72	79,5
401-500	401-500	401-500	401-500	n/c	5-8	Instituto Politecnico de Braganca		19,2	80	80,2
401-500	401-500	301-400	301-400	301-400	5-8	Universidade do Algarve		22,6	73	85,8
401-500	n/c	401-500	401-500	301-400	5-8	University of Coimbra		25,2	65,5	83,4
401-500	401-500	401-500	401-500	401-500	5-8	University of Tras-os-Montes & Alto Douro		25	67,4	70,4
n/c	401-500	401-500	401-500	n/c		University of Minho				
500	500	500	500	500	8	Nº IES				

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3.3.4 Veterinary Sciences

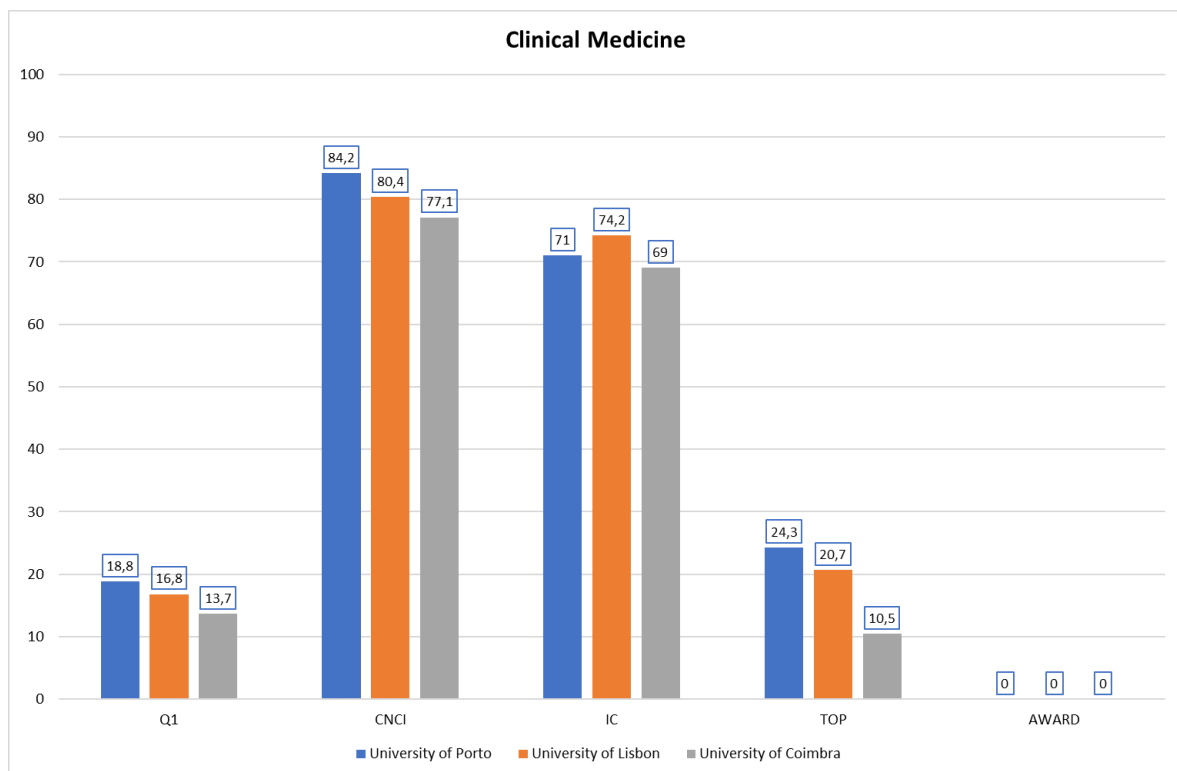
World Rank 21	World Rank 20	World Rank 19	World Rank 18	World Rank 17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
76-100	76-100	51-75	51-75	101-150	1-2	University of Lisbon		39,8	75,7	80,7	34,7
76-100	51-75	51-75	51-75	51-75	1-2	University of Porto		40,4	79,4	85,5	24,5
201-300	151-200	151-200	151-200	101-150	3	University of Tras-os-Montes & Alto Douro		31,5	70,1	79,8	11
300	300	300	300	200	3	Nº IES					



3.4 MEDICAL SCIENCES

3.4.1 Clinical Medicine

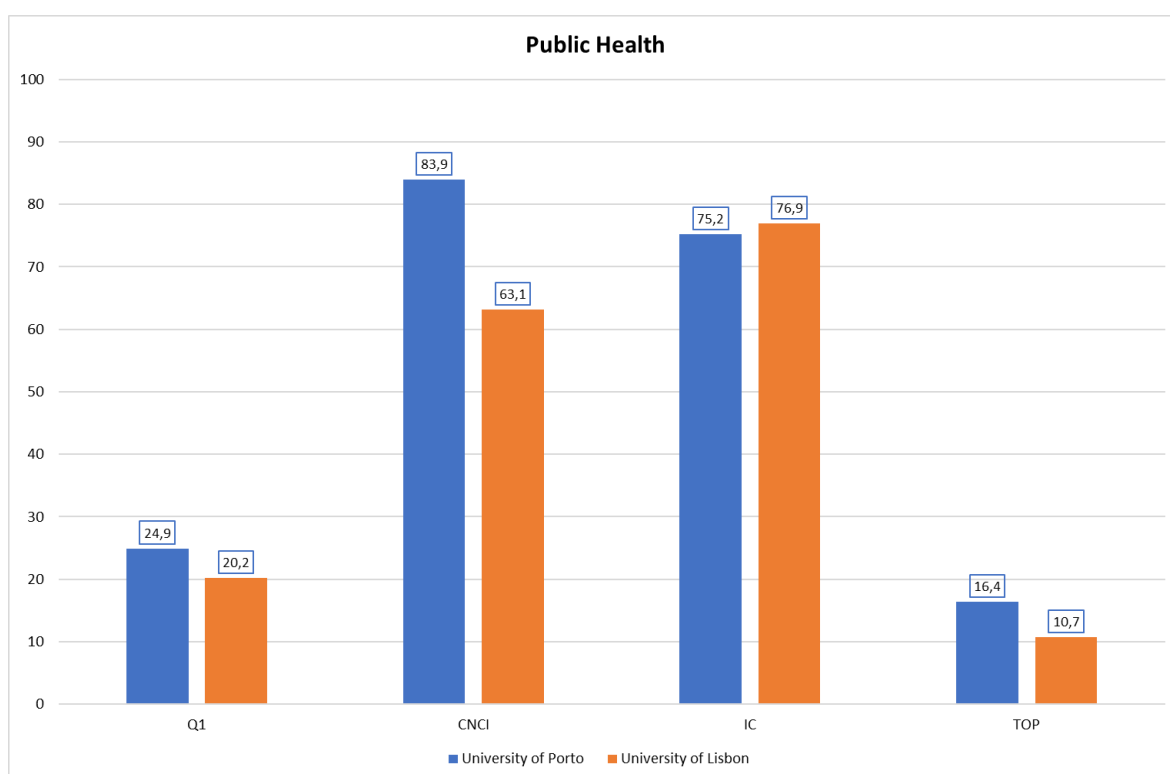
World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
151-200	201-300	201-300	301-400	301-400	1	University of Porto		18,8	84,2	71	24,3	0
201-300	201-300	301-400	301-400	301-400	2	University of Lisbon		16,8	80,4	74,2	20,7	0
301-400	301-400	401-500	401-500	401-500	3	University of Coimbra		13,7	77,1	69	10,5	0
500	500	500	500	500	3	Nº IES						



3.4.2 Public Health

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
101-150	101-150	101-150	151-200	151-200	1	University of Porto		24,9	83,9	75,2	16,4
301-400	301-400	301-400	301-400	301-400	2	University of Lisbon		20,2	63,1	76,9	10,7
n/c	n/c	401-500	n/c	401-500		University of Minho					
n/c	n/c	n/c	401-500	n/c		University of Coimbra					
n/c	n/c	n/c	401-500	301-400		New University of Lisbon					
500	500	500	500	500	2	Nº IES					

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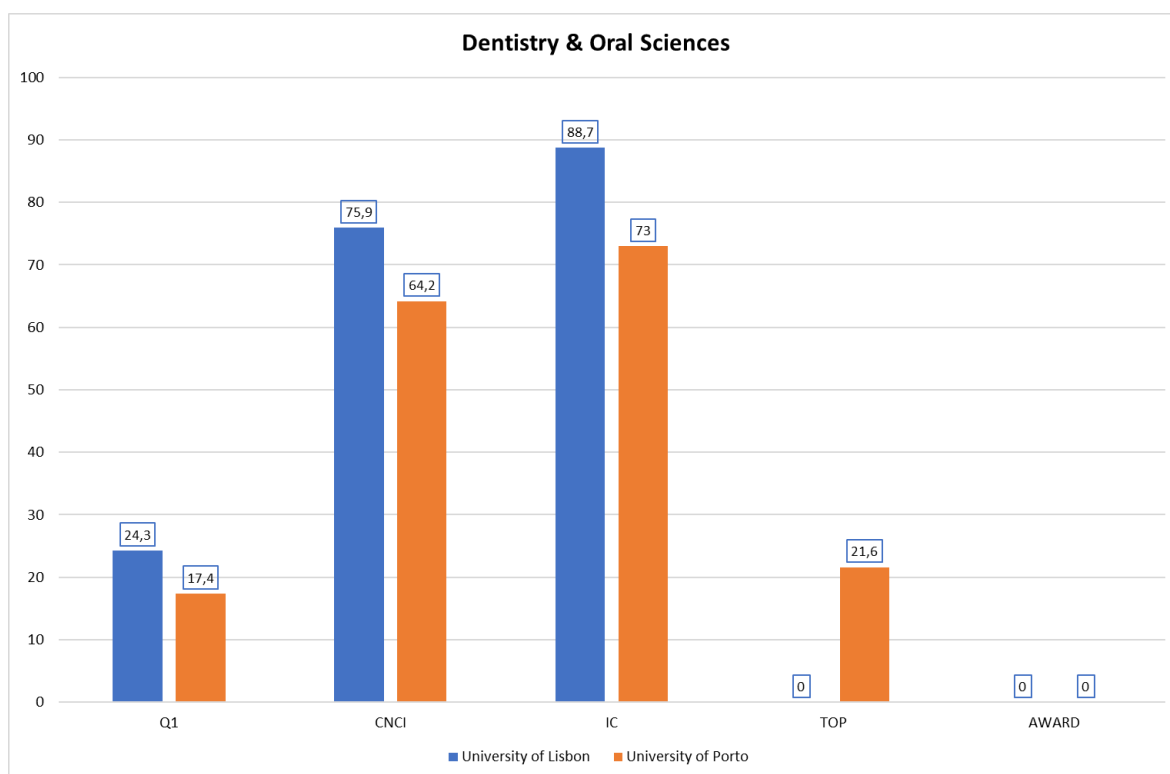


3.4.3 Dentistry & Oral Sciences

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

World Rank21	World Rank20	World Rank19	World Rank18	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
201-300	201-300	n/c	n/c	1-2	University of Lisbon		24,3	75,9	88,7	0	0
201-300	201-300	201-300	201-300	1-2	University of Porto		17,4	64,2	73	21,6	0
300	300	300	300	2	Nº IES						

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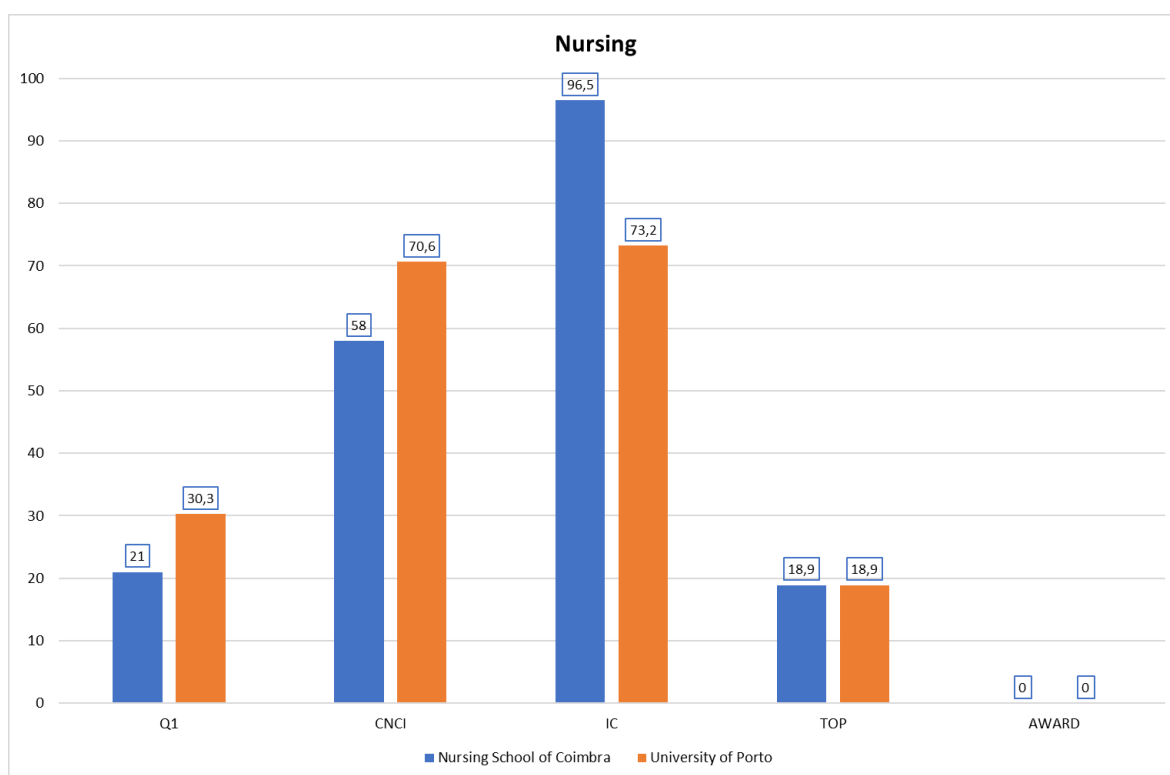


3.4.4 Nursing

Em 2018 e 2017 não havia nenhuma IES portuguesa entre as 300 listadas (100 em 2017).

World Rank21	World Rank20	World Rank19	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
201-300	n/c	n/c	1-2	Nursing School of Coimbra		21	58	96,5	18,9	0
201-300	201-300	n/c	1-2	University of Porto		30,3	70,6	73,2	18,9	0
n/c	n/c	101-150		University of Coimbra						
300	300	300	1	Nº IES						

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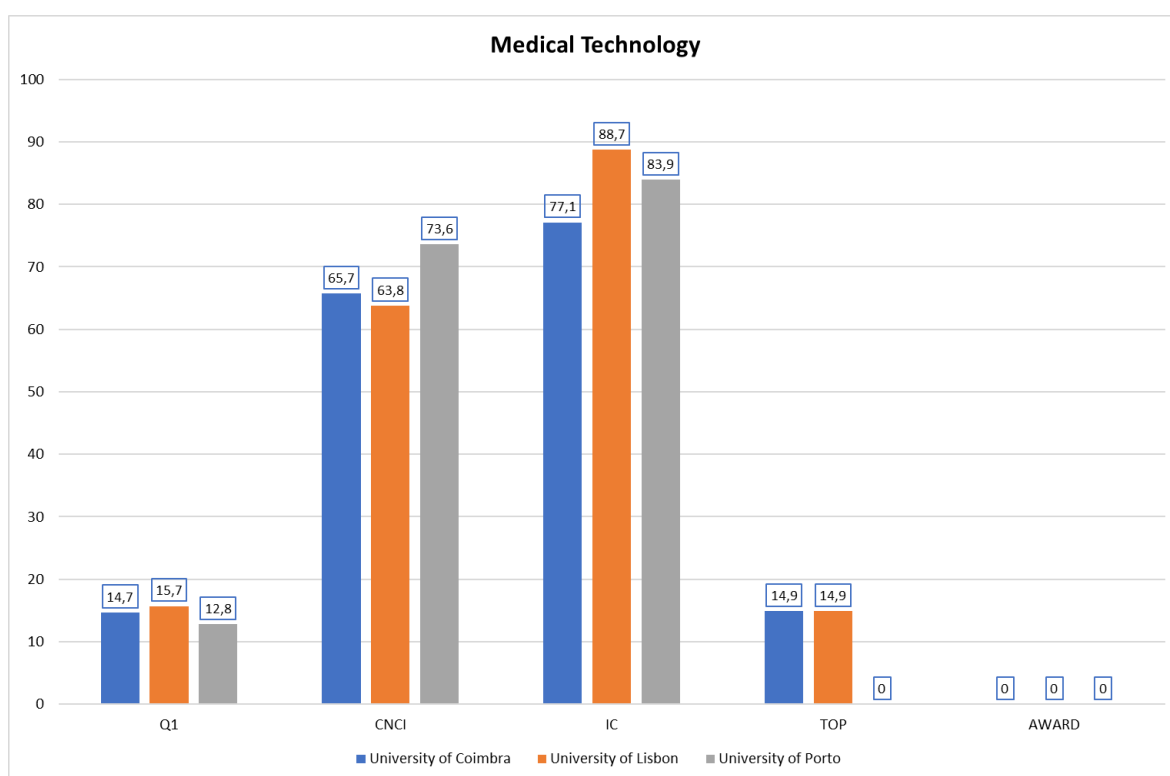


3.4.5 Medical Technology

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

World Rank21	World Rank20	World Rank19	World Rank18	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
201-300	201-300	301-400	201-300	1-3	University of Coimbra		14,7	65,7	77,1	14,9	0
201-300	301-400	201-300	201-300	1-3	University of Lisbon		15,7	63,8	88,7	14,9	0
201-300	201-300	n/c	n/c	1-3	University of Porto		12,8	73,6	83,9	0	0
400	400	400	300	3							

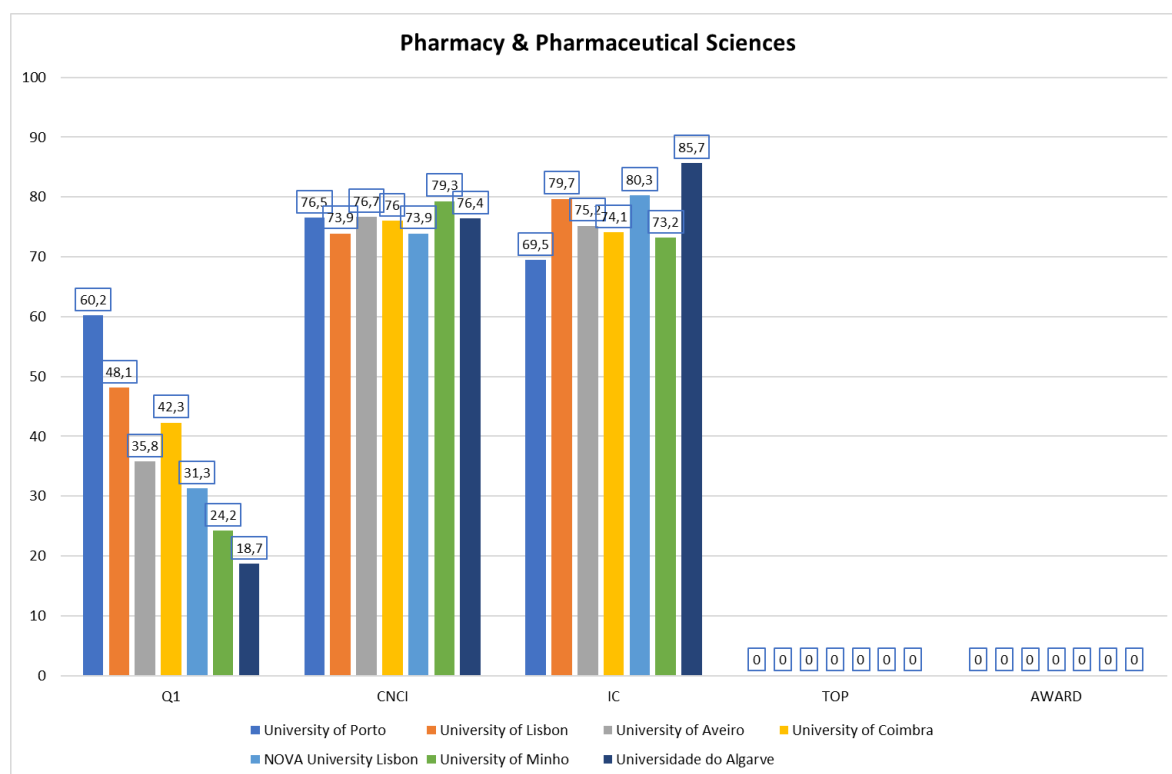
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3.4.6 Pharmacy & Pharmaceutical Sciences

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
101-150	101-150	101-150	51-75	76-100	1	University of Porto		60,2	76,5	69,5	0	0
151-200	151-200	76-100	101-150	151-200	2	University of Lisbon		48,1	73,9	79,7	0	0
201-300	201-300	201-300	201-300	201-300	3-4	University of Aveiro		35,8	76,7	75,2	0	0
201-300	201-300	201-300	151-200	201-300	3-4	University of Coimbra		42,3	76	74,1	0	0
301-400	201-300	301-400	301-400	301-400	5-6	NOVA University Lisbon		31,3	73,9	80,3	0	0
301-400	401-500	n/c	n/c	n/c	5-6	University of Minho		24,2	79,3	73,2	0	0
401-500	401-500	301-400	n/c	n/c	7	Universidade do Algarve		18,7	76,4	85,7	0	0
n/c	401-500	401-500	401-500	401-500		University of Trás-os-Montes & Alto Douro						
500	500	500	500	500	7	Nº IES						

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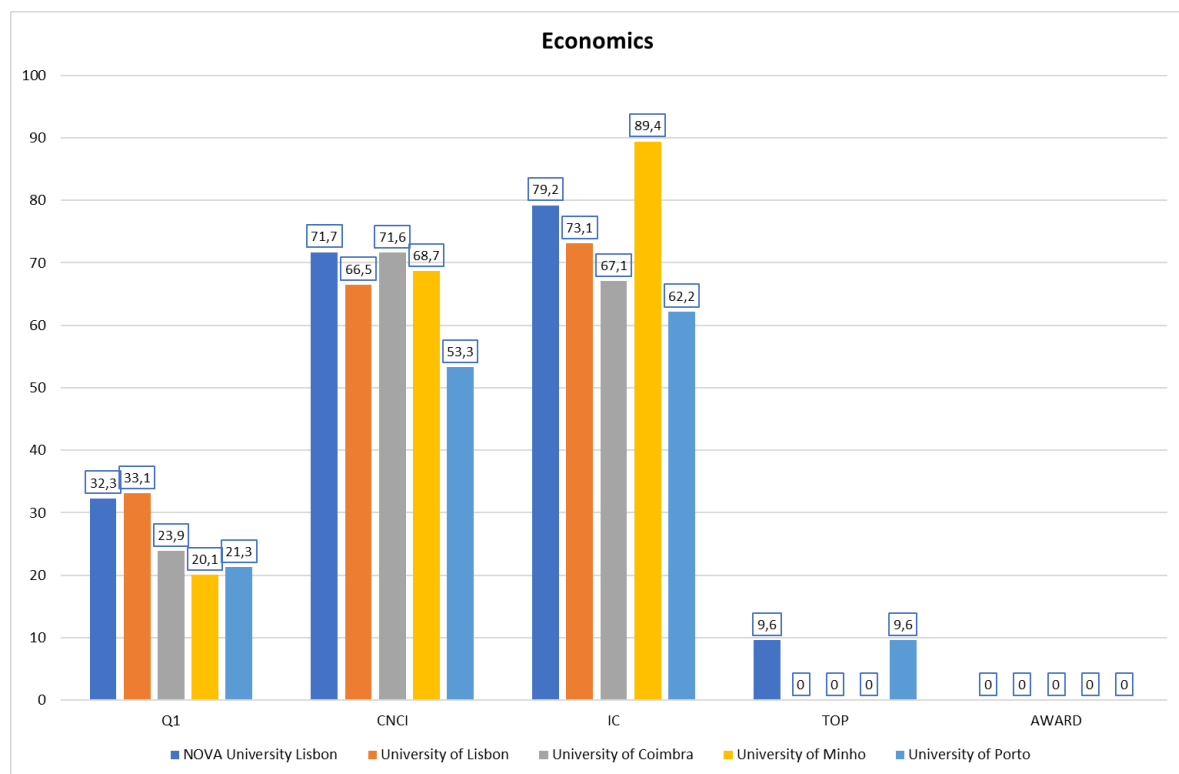


3.5 SOCIAL SCIENCES

3.5.1 Economics

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
201-300	201-300	201-300	201-300	201-300	1-2	NOVA University Lisbon		32,3	71,7	79,2	9,6	0
201-300	201-300	201-300	201-300	201-300	1-2	University of Lisbon		33,1	66,5	73,1	0	0
401-500	401-500	401-500	401-500	n/c	3-5	University of Coimbra		23,9	71,6	67,1	0	0
401-500	301-400	301-400	201-300	201-300	3-5	University of Minho		20,1	68,7	89,4	0	0
401-500	401-500	301-400	201-300	n/c	3-5	University of Porto		21,3	53,3	62,2	9,6	0
500	500	500	500	300	5	Nº IES						

n/c - não consta



3.5.2 Statistics

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
151-200	151-200	101-150	101-150	101-150	1	University of Lisbon		29,8	76,8	82,4	19,3	0
n/c	n/c	n/c	151-200	n/c		New University of Lisbon						
200	200	200	200	200	1	Nº IES						

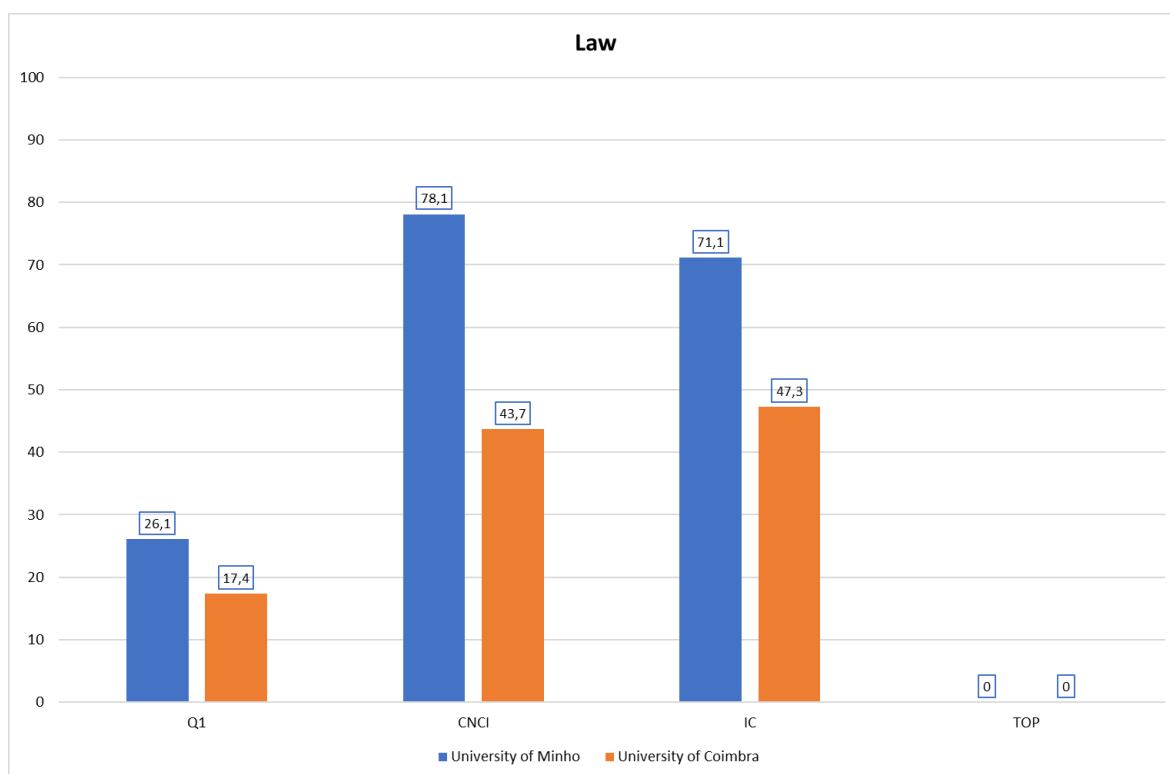
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3.5.3 Law

Em 2018 e 2017, não havia nenhuma IES portuguesa entre as 200 listadas (100, em 2017).

World Rank21	World Rank20	World Rank19	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
101-150	101-150	n/c	1	University of Minho		26,1	78,1	71,1	0
201-300	201-300	201-300	2	University of Coimbra		17,4	43,7	47,3	0
300	300	300	2	Nº IES					

n/c - não consta

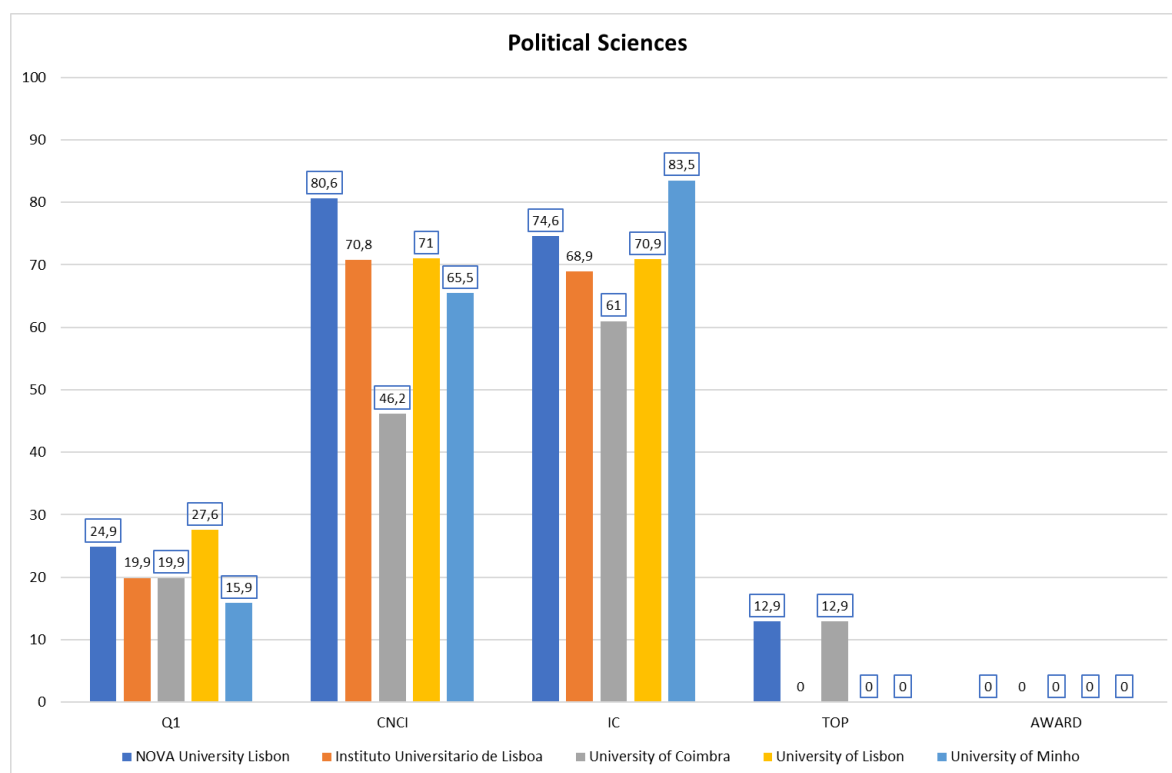


3.5.4 Political Sciences

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

World Rank21	World Rank20	World Rank19	World Rank18	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
151-200	151-200	151-200	201-300	1	NOVA University Lisbon		24,9	80,6	74,6	12,9	0
201-300	201-300	n/c	n/c	2-4	Instituto Universitario de Lisboa		19,9	70,8	68,9	0	0
201-300	201-300	301-400	301-400	2-4	University of Coimbra		19,9	46,2	61	12,9	0
201-300	201-300	201-300	201-300	2-4	University of Lisbon		27,6	71	70,9	0	0
301-400	301-400	n/c	n/c	5	University of Minho		15,9	65,5	83,5	0	0
400	400	400	400	5	Nº IES						

n/c - não consta



3.5.5 Sociology

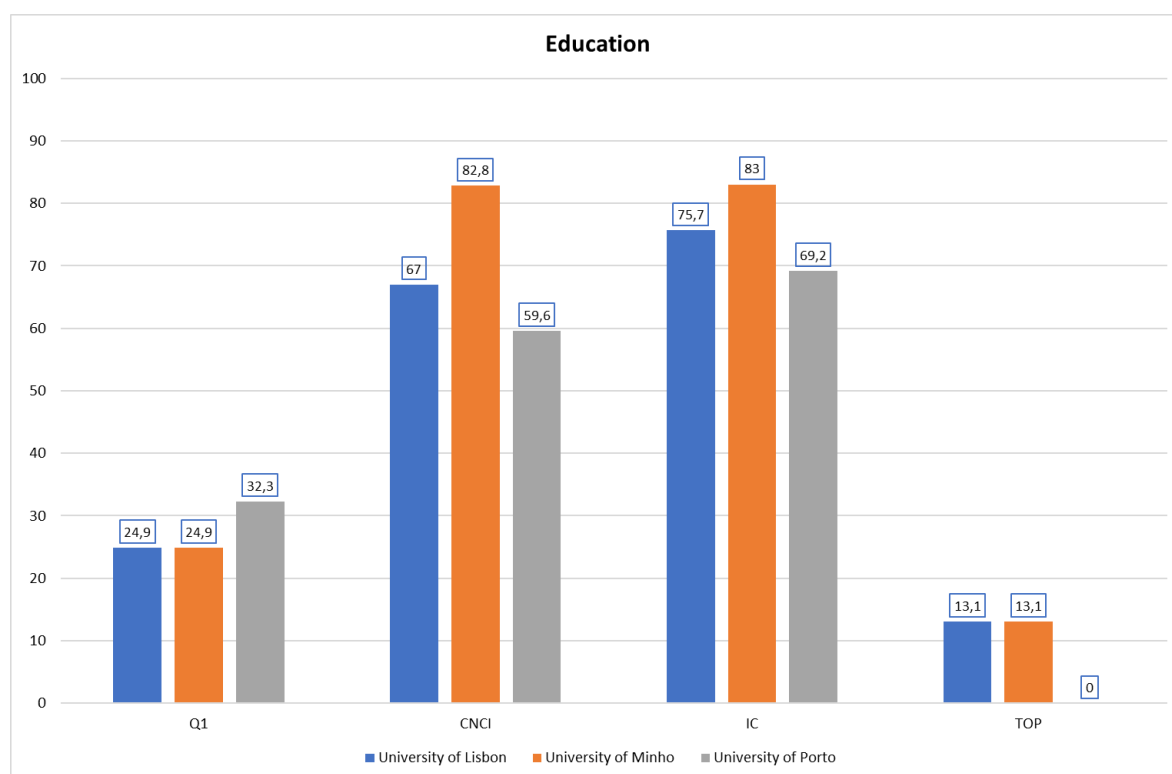
Como em 2020, 2019, 2018 e 2017, não há nenhuma IES portuguesa entre as 200 listadas (100, em 2017).

3.5.6 Education

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

World Rank21	World Rank20	World Rank19	World Rank18	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
301-400	n/c	301-400	201-300	1-2	University of Lisbon		24,9	67	75,7	13,1
301-400	301-400	301-400	301-400	1-2	University of Minho		24,9	82,8	83	13,1
401-500	401-500	301-400	301-400	3	University of Porto		32,3	59,6	69,2	0
n/c	n/c	n/c	401-500		University of Coimbra					
500	500	500	500	3	Nº IES					

n/c - não consta

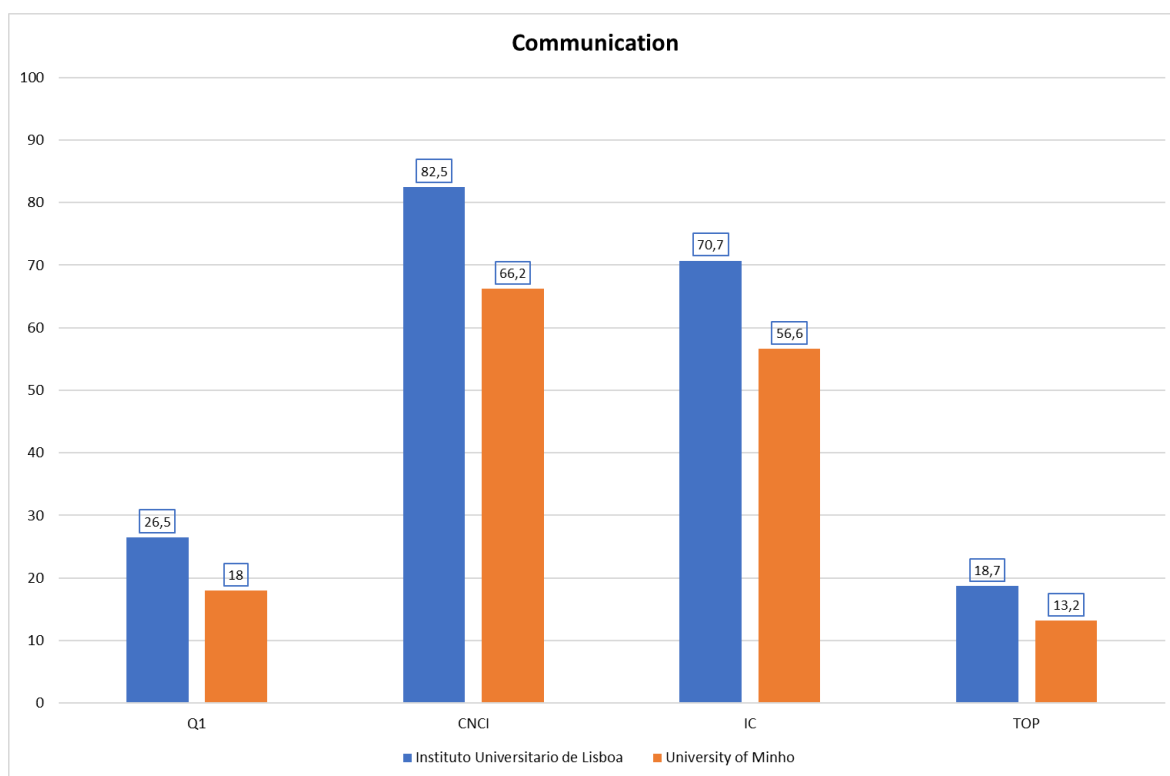


3.5.7 Communication

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

World Rank21	World Rank20	World Rank19	World Rank18	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
151-200	101-150	151-200	n/c	1	Instituto Universitario de Lisboa		26,5	82,5	70,7	18,7
201-300	n/c	n/c	n/c	2	University of Minho		18	66,2	56,6	13,2
n/c	201-300	n/c	201-300		University of Lisbon					
n/c	n/c	151-200	201-300		New University of Lisbon					
300	300	300	300	2	Nº IES					

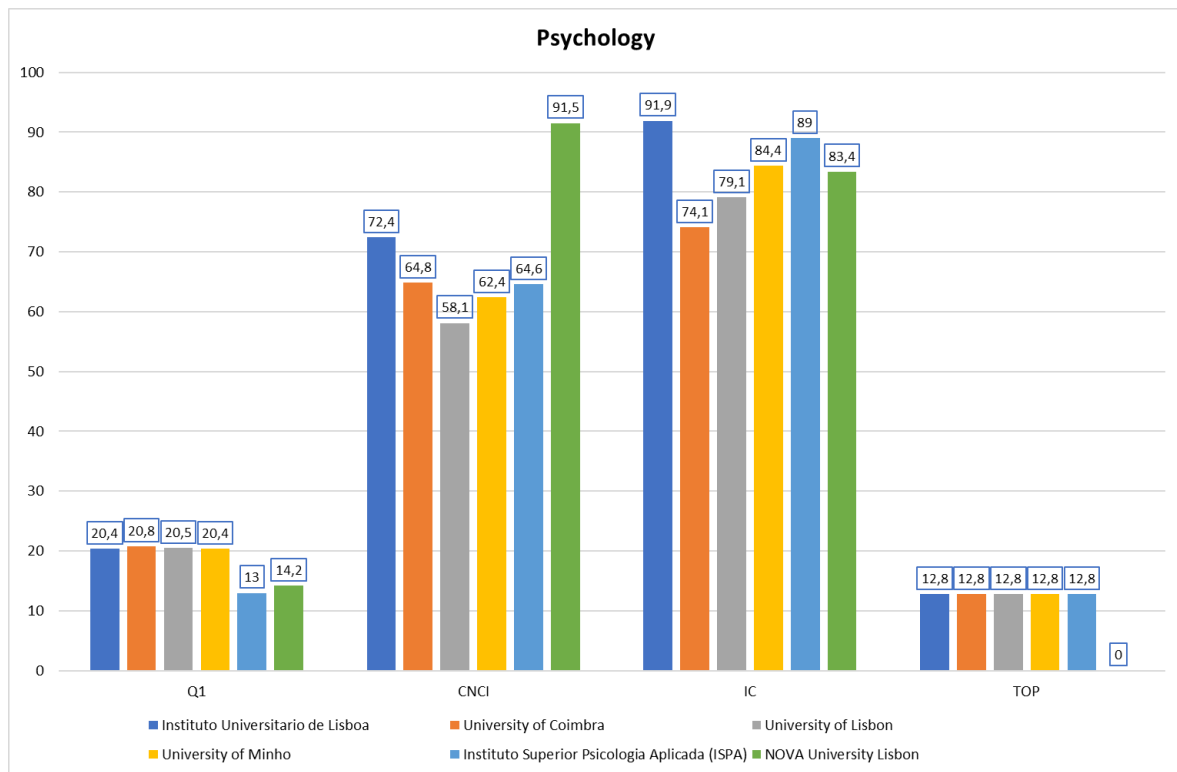
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3.5.8 Psychology

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
301-400	401-500	401-500	301-400	201-300	1-4	Instituto Universitario de Lisboa		20,4	72,4	91,9	12,8
301-400	301-400	301-400	301-400	n/c	1-4	University of Coimbra		20,8	64,8	74,1	12,8
301-400	n/c	301-400	301-400	201-300	1-4	University of Lisbon		20,5	58,1	79,1	12,8
301-400	301-400	201-300	201-300	201-300	1-4	University of Minho		20,4	62,4	84,4	12,8
401-500	401-500	401-500	401-500	n/c	5-6	Instituto Superior Psicologia Aplicada (ISPA)		13	64,6	89	12,8
401-500	401-500	n/c	n/c	n/c	5-6	NOVA University Lisbon		14,2	91,5	83,4	0
n/c	n/c	401-500	401-500	n/c		University of Porto					
500	500	500	500	300	6	Nº IES					

n/c - não consta

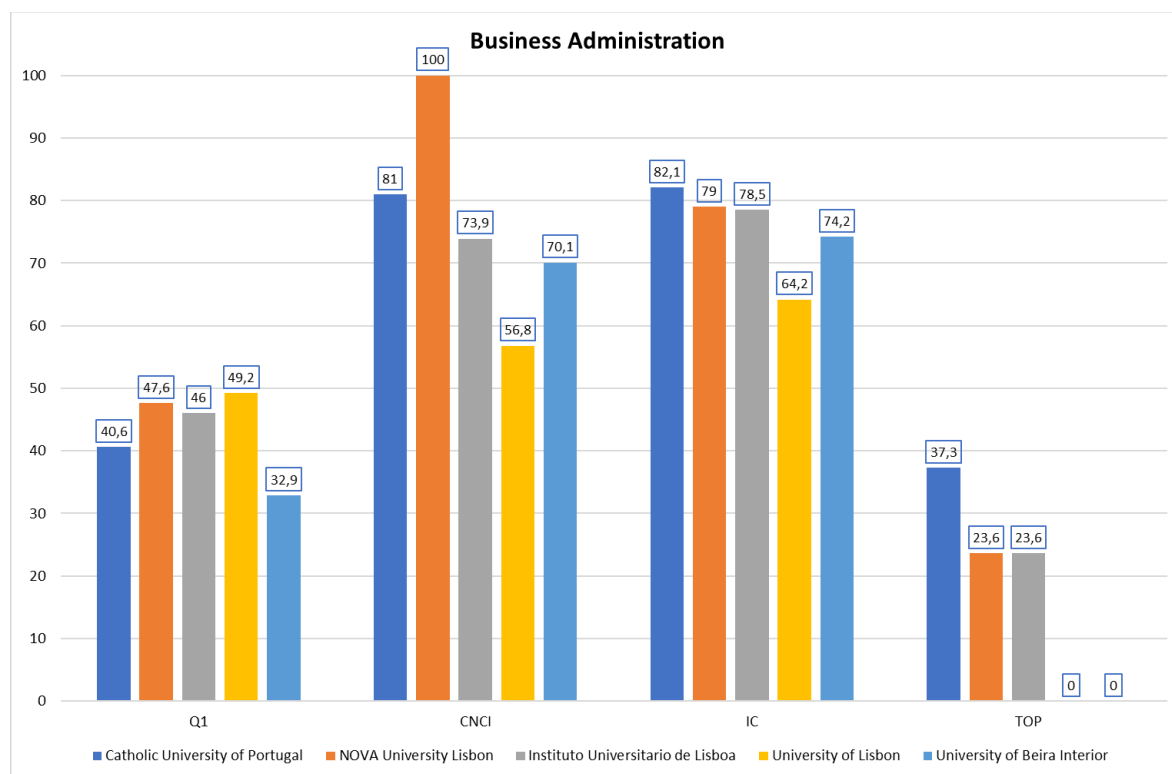


3.5.9 Business Administration

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

World Rank21	World Rank20	World Rank19	World Rank18	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
101-150	151-200	n/c	n/c	1-2	Catholic University of Portugal		40,6	81	82,1	37,3
101-150	151-200	201-300	201-300	1-2	NOVA University Lisbon		47,6	100	79	23,6
151-200	201-300	201-300	301-400	3	Instituto Universitario de Lisboa		46	73,9	78,5	23,6
201-300	301-400	301-400	301-400	4	University of Lisbon		49,2	56,8	64,2	0
301-400	n/c	n/c	n/c	5	University of Beira Interior		32,9	70,1	74,2	0
400	400	400	400	5	Nº IES					

n/c - não consta



3.5.10 Finance

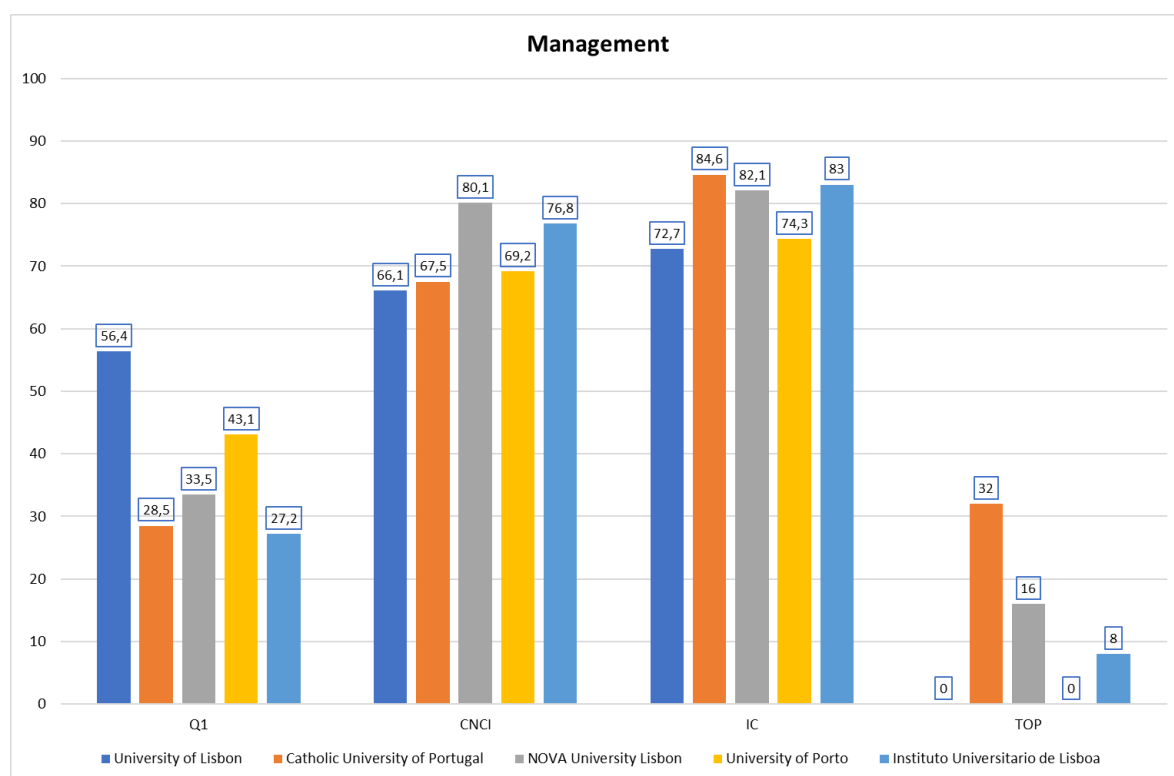
Em 2018 e 2017, não havia nenhuma IES portuguesa entre as 200 listadas.

World Rank21	World Rank20	World Rank19	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
51-75	76-100	76-100	1	NOVA University Lisbon		46,6	80,5	80,5	51,4
200	200	200	1	Nº IES					

3.5.11 Management

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP
151-200	151-200	151-200	151-200	201-300	1	University of Lisbon		56,4	66,1	72,7	0
201-300	201-300	n/c	n/c	n/c	2-3	Catholic University of Portugal		28,5	67,5	84,6	32
201-300	201-300	201-300	201-300	201-300	2-3	NOVA University Lisbon		33,5	80,1	82,1	16
301-400	301-400	301-400	301-400	301-400	4	University of Porto		43,1	69,2	74,3	0
401-500	n/c	401-500	401-500	n/c	5	Instituto Universitario de Lisboa		27,2	76,8	83	8
n/c	401-500	401-500	301-400	301-400		University of Coimbra					
500	500	500	500	400	5	Nº IES					

n/c - não consta



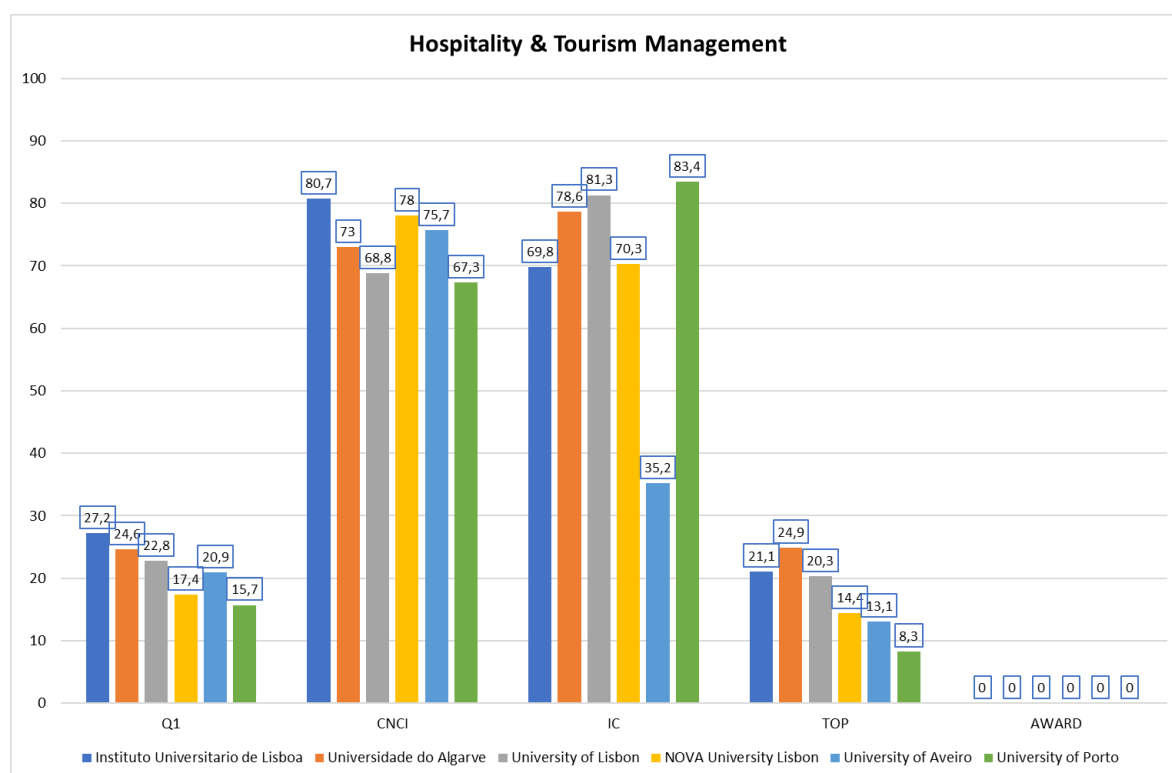
3.5.12 Public Administration

Como em 2020, 2018 e 2017, não há nenhuma IES portuguesa entre as 200 listadas (100, em 2017). Em 2019, a Universidade de Lisboa estava em 151-200.

3.5.13 Hospitality & Tourism Management

World Rank21	World Rank20	World Rank19	World Rank18	World Rank17	PT Rank	Institution	Total Score	Q1	CNCI	IC	TOP	AWARD
51-75	101-150	101-150	n/c	n/c	1	Instituto Universitario de Lisboa		27,2	80,7	69,8	21,1	0
76-100	76-100	51-75	101-150	n/c	2	Universidade do Algarve		24,6	73	78,6	24,9	0
101-150	151-200	101-150	76-100	76-100	3	University of Lisbon		22,8	68,8	81,3	20,3	0
151-200	151-200	n/c	n/c	n/c	4-5	NOVA University Lisbon		17,4	78	70,3	14,4	0
151-200	201-300	201-300	n/c	n/c	4-5	University of Aveiro		20,9	75,7	35,2	13,1	0
201-300	n/c	n/c	n/c	n/c	6	University of Porto		15,7	67,3	83,4	8,3	0
300	300	300	200	100	6	Nº IES						

n/c - não consta



3.5.14 Library & Information Science

Como em 2017, 2018, 2019 e 2020, não há nenhuma IES portuguesa entre as 100 listadas.

3.6 RESUMO

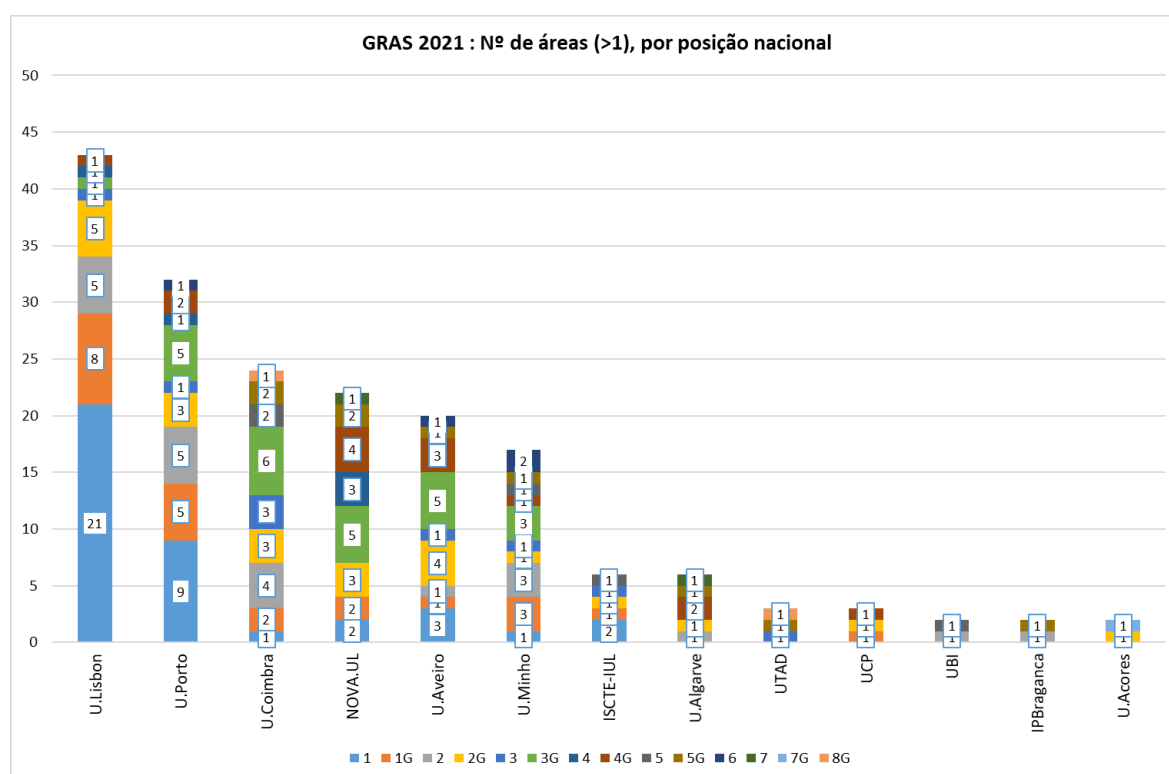
Apresenta-se em resumo as IES portuguesas presentes no ShanghaiRanking's Global Ranking of Academic Subjects 2021, indicando o número de áreas em que são listadas e a posição em que surge a nível nacional.

	1	1G	2	2G	3	3G	4	4G	5	5G	6	7	7G	8G	Total áreas
University of Lisbon	21	8	5	5	1	1	1	1							43
University of Porto	9	5	5	3	1	5	1	2			1				32
University of Coimbra	1	2	4	3	3	6			2	2				1	24
NOVA University Lisbon	2	2		3		5	3	4		2		1			22
University of Aveiro	3	1	1	4	1	5		3		1	1				20
University of Minho	1	3	3	1	1	3		1	1	1	2				17
Instituto Universitario de Lisboa	2	1		1	1				1						6
Universidade do Algarve			1	1				2		1		1			6
University of Trás-os-Montes & Alto Douro					1					1				1	3
Catholic University of Portugal		1		1				1							3
University of Beira Interior			1						1						2
Instituto Politécnico de Bragança			1							1					2
Universidade dos Açores				1									1		2
Instituto Superior Psicologia Aplicada (ISPA)										1					1
Nursing School of Coimbra		1													1
University of Évora													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

Fields	Academic Subjects	Web of Science Categories
Natural Sciences	Mathematics	Mathematics
Natural Sciences	Mathematics	Mathematics, Applied
Natural Sciences	Physics	Acoustics
Natural Sciences	Physics	Astronomy & Astrophysics
Natural Sciences	Physics	Optics
Natural Sciences	Physics	Physics, Applied
Natural Sciences	Physics	Physics, Atomic, Molecular & Chemical
Natural Sciences	Physics	Physics, Condensed Matter
Natural Sciences	Physics	Physics, Fluids & Plasmas
Natural Sciences	Physics	Physics, Mathematical
Natural Sciences	Physics	Physics, Multidisciplinary
Natural Sciences	Physics	Physics, Nuclear
Natural Sciences	Physics	Physics, Particles & Fields
Natural Sciences	Chemistry	Chemistry, Analytical
Natural Sciences	Chemistry	Chemistry, Applied
Natural Sciences	Chemistry	Chemistry, Inorganic & Nuclear
Natural Sciences	Chemistry	Chemistry, Multidisciplinary
Natural Sciences	Chemistry	Chemistry, Organic
Natural Sciences	Chemistry	Chemistry, Physical
Natural Sciences	Chemistry	Crystallography
Natural Sciences	Chemistry	Electrochemistry
Natural Sciences	Chemistry	Spectroscopy
Natural Sciences	Chemistry	Polymer Science
Natural Sciences	Earth Sciences	Geochemistry & Geophysics
Natural Sciences	Earth Sciences	Geology
Natural Sciences	Earth Sciences	Geosciences, Multidisciplinary
Natural Sciences	Earth Sciences	Mineralogy
Natural Sciences	Earth Sciences	Paleontology
Natural Sciences	Geography	Area Studies
Natural Sciences	Geography	Geography
Natural Sciences	Geography	Geography, Physical
Natural Sciences	Ecology	Biodiversity Conservation
Natural Sciences	Ecology	Ecology
Natural Sciences	Oceanography	Oceanography
Natural Sciences	Atmospheric Science	Meteorology & Atmospheric Sciences
Engineering	Mechanical Engineering	Engineering, Manufacturing
Engineering	Mechanical Engineering	Engineering, Mechanical
Engineering	Electrical & Electronic Engineering	Engineering, Electrical & Electronic
Engineering	Electrical & Electronic Engineering	Imaging Science & Photographic Technology
Engineering	Automation & Control	Automation & Control Systems
Engineering	Automation & Control	Robotics
Engineering	Telecommunication Engineering	Telecommunications
Engineering	Instruments Science & Technology	Instruments & Instrumentation
Engineering	Instruments Science & Technology	Microscopy
Engineering	Biomedical Engineering	Cell & Tissue Engineering
Engineering	Biomedical Engineering	Engineering, Biomedical

Fields	Academic Subjects	Web of Science Categories
Engineering	Computer Science & Engineering	Computer Science, Information Systems
Engineering	Computer Science & Engineering	Computer Science, Cybernetics
Engineering	Computer Science & Engineering	Computer Science, Software Engineering
Engineering	Computer Science & Engineering	Computer Science, Artificial Intelligence
Engineering	Computer Science & Engineering	Computer Science, Hardware & Architecture
Engineering	Computer Science & Engineering	Computer Science, Theory & Methods
Engineering	Computer Science & Engineering	Computer Science, Interdisciplinary Applications
Engineering	Civil Engineering	Construction & Building Technology
Engineering	Civil Engineering	Engineering, Civil
Engineering	Chemical Engineering	Engineering, Chemical
Engineering	Materials Science & Engineering	Materials Science, Biomaterials
Engineering	Materials Science & Engineering	Materials Science, Ceramics
Engineering	Materials Science & Engineering	Materials Science, Characterization & Testing
Engineering	Materials Science & Engineering	Materials Science, Coatings & Films
Engineering	Materials Science & Engineering	Materials Science, Composites
Engineering	Materials Science & Engineering	Materials Science, Multidisciplinary
Engineering	Materials Science & Engineering	Materials Science, Paper & Wood
Engineering	Materials Science & Engineering	Materials Science, Textiles
Engineering	Nanoscience & Nanotechnology	Nanoscience & Nanotechnology
Engineering	Energy Science & Engineering	Energy & Fuels
Engineering	Energy Science & Engineering	Nuclear Science & Technology
Engineering	Energy Science & Engineering	Engineering, Petroleum
Engineering	Energy Science & Engineering	Thermodynamics
Engineering	Environmental Science & Engineering	Engineering, Environmental
Engineering	Environmental Science & Engineering	Environmental Sciences
Engineering	Environmental Science & Engineering	Environmental Studies
Engineering	Water Resources	Water Resources
Engineering	Food Science & Technology	Food Science & Technology
Engineering	Biotechnology	Biotechnology & Applied Microbiology
Engineering	Aerospace Engineering	Engineering, Aerospace
Engineering	Marine/Ocean Engineering	Engineering, Marine
Engineering	Marine/Ocean Engineering	Engineering, Ocean
Engineering	Transportation Science & Technology	Transportation
Engineering	Transportation Science & Technology	Transportation Science & Technology
Engineering	Remote Sensing	Remote Sensing
Engineering	Mining & Mineral Engineering	Mining & Mineral Processing
Engineering	Metallurgical Engineering	Metallurgy & Metallurgical Engineering
Life Sciences	Biological Sciences	Biochemical Research Methods
Life Sciences	Biological Sciences	Biochemistry & Molecular Biology
Life Sciences	Biological Sciences	Biology
Life Sciences	Biological Sciences	Biophysics
Life Sciences	Biological Sciences	Cell Biology
Life Sciences	Biological Sciences	Developmental Biology
Life Sciences	Biological Sciences	Entomology
Life Sciences	Biological Sciences	Evolutionary Biology
Life Sciences	Biological Sciences	Genetics & Heredity
Life Sciences	Biological Sciences	Limnology
Life Sciences	Biological Sciences	Marine & Freshwater Biology
Life Sciences	Biological Sciences	Mathematical & Computational Biology
Life Sciences	Biological Sciences	Microbiology
Life Sciences	Biological Sciences	Mycology
Life Sciences	Biological Sciences	Ornithology
Life Sciences	Biological Sciences	Physiology
Life Sciences	Biological Sciences	Reproductive Biology

Fields	Academic Subjects	Web of Science Categories
Life Sciences	Biological Sciences	Virology
Life Sciences	Biological Sciences	Zoology
Life Sciences	Human Biological Sciences	Neurosciences
Life Sciences	Human Biological Sciences	Anatomy & Morphology
Life Sciences	Human Biological Sciences	Parasitology
Life Sciences	Human Biological Sciences	Pathology
Life Sciences	Human Biological Sciences	Immunology
Life Sciences	Human Biological Sciences	Medical Informatics
Life Sciences	Human Biological Sciences	Medicine, Research & Experimental
Life Sciences	Agricultural Sciences	Agronomy
Life Sciences	Agricultural Sciences	Horticulture
Life Sciences	Agricultural Sciences	Fisheries
Life Sciences	Agricultural Sciences	Soil Science
Life Sciences	Agricultural Sciences	Forestry
Life Sciences	Agricultural Sciences	Agriculture, Dairy & Animal Science
Life Sciences	Agricultural Sciences	Agriculture, Multidisciplinary
Life Sciences	Agricultural Sciences	Plant Sciences
Life Sciences	Veterinary Sciences	Veterinary Sciences
Medical Sciences	Clinical Medicine	Allergy
Medical Sciences	Clinical Medicine	Andrology
Medical Sciences	Clinical Medicine	Anesthesiology
Medical Sciences	Clinical Medicine	Cardiac & Cardiovascular Systems
Medical Sciences	Clinical Medicine	Clinical Neurology
Medical Sciences	Clinical Medicine	Critical Care Medicine
Medical Sciences	Clinical Medicine	Dermatology
Medical Sciences	Clinical Medicine	Emergency Medicine
Medical Sciences	Clinical Medicine	Endocrinology & Metabolism
Medical Sciences	Clinical Medicine	Gastroenterology & Hepatology
Medical Sciences	Clinical Medicine	Geriatrics & Gerontology
Medical Sciences	Clinical Medicine	Gerontology
Medical Sciences	Clinical Medicine	Hematology
Medical Sciences	Clinical Medicine	Integrative & Complementary Medicine
Medical Sciences	Clinical Medicine	Medicine, General & Internal
Medical Sciences	Clinical Medicine	Obstetrics & Gynecology
Medical Sciences	Clinical Medicine	Oncology
Medical Sciences	Clinical Medicine	Ophthalmology
Medical Sciences	Clinical Medicine	Orthopedics
Medical Sciences	Clinical Medicine	Otorhinolaryngology
Medical Sciences	Clinical Medicine	Pediatrics
Medical Sciences	Clinical Medicine	Peripheral Vascular Disease
Medical Sciences	Clinical Medicine	Psychiatry
Medical Sciences	Clinical Medicine	Rehabilitation
Medical Sciences	Clinical Medicine	Respiratory System
Medical Sciences	Clinical Medicine	Rheumatology
Medical Sciences	Clinical Medicine	Surgery
Medical Sciences	Clinical Medicine	Transplantation
Medical Sciences	Clinical Medicine	Tropical Medicine
Medical Sciences	Clinical Medicine	Urology & Nephrology
Medical Sciences	Clinical Medicine	Audiology & Speech-Language Pathology
Medical Sciences	Public Health	Health Policy & Services
Medical Sciences	Public Health	Health Care Sciences & Services
Medical Sciences	Public Health	Infectious Diseases
Medical Sciences	Public Health	Nutrition & Dietetics
Medical Sciences	Public Health	Primary Health Care
Medical Sciences	Public Health	Public, Environmental & Occupational Health
Medical Sciences	Public Health	Social Sciences, Biomedical

Fields	Academic Subjects	Web of Science Categories
Medical Sciences	Public Health	Substance Abuse
Medical Sciences	Public Health	Ergonomics
Medical Sciences	Dentistry & Oral Sciences	Dentistry, Oral Surgery & Medicine
Medical Sciences	Nursing	Nursing
Medical Sciences	Medical Technology	Medical Laboratory Technology
Medical Sciences	Medical Technology	Neuroimaging
Medical Sciences	Medical Technology	Radiology, Nuclear Medicine & Medical Imaging
Medical Sciences	Pharmacy & Pharmaceutical Sciences	Chemistry, Medicinal
Medical Sciences	Pharmacy & Pharmaceutical Sciences	Pharmacology & Pharmacy
Medical Sciences	Pharmacy & Pharmaceutical Sciences	Toxicology
Social Sciences	Economics	Economics
Social Sciences	Statistics	Statistics & Probability
Social Sciences	Law	Criminology & Penology
Social Sciences	Law	Law
Social Sciences	Political Sciences	International Relations
Social Sciences	Political Sciences	Political Science
Social Sciences	Sociology	Sociology
Social Sciences	Education	Education & Educational Research
Social Sciences	Education	Education, Scientific Disciplines
Social Sciences	Education	Education, Special
Social Sciences	Communication	Communication
Social Sciences	Psychology	Psychology
Social Sciences	Psychology	Psychology, Applied
Social Sciences	Psychology	Psychology, Biological
Social Sciences	Psychology	Psychology, Clinical
Social Sciences	Psychology	Psychology, Developmental
Social Sciences	Psychology	Psychology, Educational
Social Sciences	Psychology	Psychology, Experimental
Social Sciences	Psychology	Psychology, Mathematical
Social Sciences	Psychology	Psychology, Multidisciplinary
Social Sciences	Psychology	Psychology, Psychoanalysis
Social Sciences	Psychology	Psychology, Social
Social Sciences	Psychology	Behavioral Sciences
Social Sciences	Business Administration	Business
Social Sciences	Business Administration	Industrial Relations & Labor
Social Sciences	Finance	Business, Finance
Social Sciences	Management	Management
Social Sciences	Management	Operations Research & Management Science
Social Sciences	Public Administration	Public Administration
Social Sciences	Hospitality & Tourism Management	Hospitality, Leisure, Sport & Tourism
Social Sciences	Library & Information Science	Information Science & Library Science

“ 3

³ In <http://shanghairanking.com/methodology/gras/2021> , acedido 26 de maio de 2021.

4.2 ShanghaiRanking Academic Excellence Survey 2020 Top Journals, Awards & Conferences

“

Academic Subject	Journal Name	ISSN	Percentage Voted
Mathematics	ANNALS OF MATHEMATICS	0003-486X	75%
Mathematics	INVENTIONES MATHEMATICAE	0020-9910	62%
Mathematics	JOURNAL OF THE AMERICAN MATHEMATICAL SOCIETY	0894-0347	56%
Physics	PHYSICAL REVIEW LETTERS	0031-9007	75%
Chemistry	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	0002-7863	82%
Chemistry	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	1433-7851	71%
Chemistry	NATURE CHEMISTRY	1755-4330	63%
Chemistry	NATURE MATERIALS	1476-1122	30%
Earth Sciences	NATURE GEOSCIENCE	1752-0894	61%
Earth Sciences	EARTH AND PLANETARY SCIENCE LETTERS	0012-821X	55%
Earth Sciences	GEOPHYSICAL RESEARCH LETTERS	0094-8276	52%
Earth Sciences	GEOCHIMICA ET COSMOCHIMICA ACTA	0016-7037	39%
Geography	PROGRESS IN HUMAN GEOGRAPHY	0309-1325	64%
Geography	POLITICAL GEOGRAPHY	0962-6298	45%
Geography	TRANSACTIONS OF THE INSTITUTE OF BRITISH GEOGRAPHERS	0020-2754	45%
Geography	ANNALS OF THE ASSOCIATION OF AMERICAN GEOGRAPHERS	0004-5608	36%
Geography	GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS	0959-3780	36%
Geography	JOURNAL OF RURAL STUDIES	0743-0167	27%
Geography	URBAN GEOGRAPHY	0272-3638	27%
Ecology	ECOLOGY LETTERS	1461-023X	78%
Ecology	TRENDS IN ECOLOGY & EVOLUTION	0169-5347	67%
Ecology	ANNUAL REVIEW OF ECOLOGY EVOLUTION AND SYSTEMATICS	1543-592X	56%
Atmospheric Science	NATURE CLIMATE CHANGE	1758-678X	83%
Atmospheric Science	JOURNAL OF CLIMATE	0894-8755	67%
Atmospheric Science	BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY	0003-0007	50%
Atmospheric Science	CLIMATE DYNAMICS	0930-7575	50%
Atmospheric Science	JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES	2169-897X	50%
Atmospheric Science	ATMOSPHERIC CHEMISTRY AND PHYSICS	1680-7316	33%
Mechanical Engineering	JOURNAL OF FLUID MECHANICS	0022-1120	49%
Mechanical Engineering	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	0017-9310	30%
Mechanical Engineering	COMBUSTION AND FLAME	0010-2180	21%
Mechanical Engineering	JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS	0022-5096	21%
Mechanical Engineering	JOURNAL OF SOUND AND VIBRATION	0022-460X	19%
Mechanical Engineering	PROCEEDINGS OF THE COMBUSTION INSTITUTE	1540-7489	17%
Mechanical Engineering	Advances in Applied Mechanics	0065-2156	13%
Mechanical Engineering	IEEE-ASME TRANSACTIONS ON MECHATRONICS	1083-4435	13%
Mechanical Engineering	PROGRESS IN ENERGY AND COMBUSTION SCIENCE	0360-1285	13%

Academic Subject	Journal Name	ISSN	Percentage Voted
Mechanical Engineering	Additive Manufacturing	2214-8604	11%
Mechanical Engineering	EXPERIMENTS IN FLUIDS	0723-4864	11%
Mechanical Engineering	JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER	0742-4795	11%
Mechanical Engineering	JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME	0022-1481	11%
Mechanical Engineering	JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME	0889-504X	11%
Mechanical Engineering	WEAR	0043-1648	11%
Electrical & Electronic Engineering	PROCEEDINGS OF THE IEEE	0018-9219	49%
Automation & Control	AUTOMATICA	0005-1098	79%
Automation & Control	IEEE TRANSACTIONS ON AUTOMATIC CONTROL	0018-9286	79%
Automation & Control	IEEE TRANSACTIONS ON ROBOTICS	1552-3098	57%
Automation & Control	INTERNATIONAL JOURNAL OF ROBOTICS RESEARCH	0278-3649	57%
Automation & Control	SIAM JOURNAL ON CONTROL AND OPTIMIZATION	0363-0129	50%
Biomedical Engineering	BIOMATERIALS	0142-9612	41%
Civil Engineering	JOURNAL OF STRUCTURAL ENGINEERING	0733-9445	36%
Chemical Engineering	ENERGY & ENVIRONMENTAL SCIENCE	1754-5692	49%
Chemical Engineering	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	0888-5885	49%
Materials Science & Engineering	NATURE MATERIALS	1476-1122	70%
Materials Science & Engineering	ADVANCED MATERIALS	0935-9648	60%
Nanoscience & Nanotechnology	ADVANCED MATERIALS	0935-9648	83%
Nanoscience & Nanotechnology	NANO LETTERS	1530-6984	83%
Nanoscience & Nanotechnology	ACS Nano	1936-0851	67%
Nanoscience & Nanotechnology	ADVANCED FUNCTIONAL MATERIALS	1616-301X	67%
Nanoscience & Nanotechnology	Nature Nanotechnology	1748-3387	67%
Nanoscience & Nanotechnology	Nano Today	1748-0132	50%
Nanoscience & Nanotechnology	Small	1613-6810	33%
Energy Science & Engineering	ENERGY & ENVIRONMENTAL SCIENCE	1754-5692	83%
Energy Science & Engineering	ADVANCED ENERGY MATERIALS	1614-6832	67%
Environmental Science & Engineering	ENVIRONMENTAL SCIENCE & TECHNOLOGY	0013-936X	89%
Water Resources	WATER RESOURCES RESEARCH	0043-1397	99%
Water Resources	JOURNAL OF HYDROLOGY	0022-1694	67%
Aerospace Engineering	AIAA JOURNAL	0001-1452	71%
Aerospace Engineering	JOURNAL OF SPACECRAFT AND ROCKETS	0022-4650	71%
Aerospace Engineering	JOURNAL OF AIRCRAFT	0021-8669	43%
Aerospace Engineering	JOURNAL OF PROPULSION AND POWER	0748-4658	43%
Marine/Ocean Engineering	APPLIED OCEAN RESEARCH	0141-1187	67%
Marine/Ocean Engineering	JOURNAL OF OFFSHORE MECHANICS AND ARCTIC ENGINEERING-TRANSACTIONS OF THE ASME	0892-7219	67%
Marine/Ocean Engineering	OCEAN ENGINEERING	0029-8018	67%
Remote Sensing	IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING	0196-2892	99%
Remote Sensing	REMOTE SENSING OF ENVIRONMENT	0034-4257	99%

Academic Subject	Journal Name	ISSN	Percentage Voted
Remote Sensing	ISPRS JOURNAL OF PHOTOGRAMMETRY AND REMOTE SENSING	0924-2716	67%
Mining & Mineral Engineering	INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES	1365-1609	50%
Metallurgical Engineering	ACTA MATERIALIA	1359-6454	63%
Metallurgical Engineering	CORROSION SCIENCE	0010-938X	38%
Metallurgical Engineering	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	1073-5623	38%
Metallurgical Engineering	SCRIPTA MATERIALIA	1359-6462	38%
Biological Sciences	CELL	0092-8674	69%
Human Biological Sciences	NATURE NEUROSCIENCE	1097-6256	56%
Human Biological Sciences	NATURE MEDICINE	1078-8956	44%
Human Biological Sciences	IMMUNITY	1074-7613	22%
Human Biological Sciences	NATURE IMMUNOLOGY	1529-2908	22%
Veterinary Sciences	VETERINARY MICROBIOLOGY	0378-1135	58%
Veterinary Sciences	VETERINARY RESEARCH	0928-4249	42%
Clinical Medicine	NEW ENGLAND JOURNAL OF MEDICINE	0028-4793	84%
Clinical Medicine	LANCET	0140-6736	68%
Public Health	INTERNATIONAL JOURNAL OF EPIDEMIOLOGY	0300-5771	42%
Public Health	ENVIRONMENTAL HEALTH PERSPECTIVES	0091-6765	33%
Public Health	ANNUAL REVIEW OF PUBLIC HEALTH	0163-7525	25%
Dentistry & Oral Sciences	JOURNAL OF DENTAL RESEARCH	0022-0345	92%
Nursing	INTERNATIONAL JOURNAL OF NURSING STUDIES	0020-7489	80%
Nursing	RESEARCH IN NURSING & HEALTH	0160-6891	70%
Medical Technology	MAGNETIC RESONANCE IN MEDICINE	0740-3194	99%
Pharmacy & Pharmaceutical Sciences	NATURE REVIEWS DRUG DISCOVERY	1474-1776	69%
Economics	ECONOMETRICA	0012-9682	89%
Economics	AMERICAN ECONOMIC REVIEW	0002-8282	80%
Economics	JOURNAL OF POLITICAL ECONOMY	0022-3808	71%
Economics	REVIEW OF ECONOMIC STUDIES	0034-6527	70%
Economics	QUARTERLY JOURNAL OF ECONOMICS	0033-5533	67%
Statistics	ANNALS OF STATISTICS	0090-5364	89%
Statistics	JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION	0162-1459	85%
Statistics	JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY	1369-7412	67%
Statistics	BIOMETRIKA	0006-3444	56%
Law	HARVARD LAW REVIEW	0017-811X	58%
Law	YALE LAW JOURNAL	0044-0094	53%
Political Sciences	AMERICAN POLITICAL SCIENCE REVIEW	0003-0554	86%
Political Sciences	INTERNATIONAL ORGANIZATION	0020-8183	64%
Political Sciences	WORLD POLITICS	0043-8871	57%
Political Sciences	AMERICAN JOURNAL OF POLITICAL SCIENCE	0092-5853	50%
Sociology	AMERICAN JOURNAL OF SOCIOLOGY	0002-9602	83%
Sociology	AMERICAN SOCIOLOGICAL REVIEW	0003-1224	83%
Education	AMERICAN EDUCATIONAL RESEARCH JOURNAL	0002-8312	70%
Education	REVIEW OF EDUCATIONAL RESEARCH	0034-6543	45%

Academic Subject	Journal Name	ISSN	Percentage Voted
Education	EDUCATIONAL RESEARCHER	0013-189X	40%
Education	TEACHING AND TEACHER EDUCATION	0742-051X	35%
Education	JOURNAL OF TEACHER EDUCATION	0022-4871	30%
Education	JOURNAL OF RESEARCH IN SCIENCE TEACHING	0022-4308	25%
Communication	JOURNAL OF COMMUNICATION	0021-9916	92%
Communication	COMMUNICATION RESEARCH	0093-6502	62%
Communication	HUMAN COMMUNICATION RESEARCH	0360-3989	62%
Communication	NEW MEDIA & SOCIETY	1461-4448	46%
Communication	COMMUNICATION THEORY	1050-3293	38%
Psychology	PSYCHOLOGICAL SCIENCE	0956-7976	74%
Psychology	PSYCHOLOGICAL BULLETIN	0033-2909	63%
Psychology	PSYCHOLOGICAL REVIEW	0033-295X	63%
Psychology	TRENDS IN COGNITIVE SCIENCES	1364-6613	47%
Business Administration	JOURNAL OF CONSUMER RESEARCH	0093-5301	32%
Business Administration	JOURNAL OF MARKETING RESEARCH	0022-2437	27%
Business Administration	JOURNAL OF MARKETING	0022-2429	23%
Accounting & Finance	JOURNAL OF FINANCE	0022-1082	86%
Accounting & Finance	JOURNAL OF FINANCIAL ECONOMICS	0304-405X	81%
Accounting & Finance	REVIEW OF FINANCIAL STUDIES	0893-9454	81%
Management	ACADEMY OF MANAGEMENT JOURNAL	0001-4273	65%
Management	ACADEMY OF MANAGEMENT REVIEW	0363-7425	62%
Management	MANAGEMENT SCIENCE	0025-1909	62%
Management	STRATEGIC MANAGEMENT JOURNAL	0143-2095	56%
Management	ORGANIZATION SCIENCE	1047-7039	53%
Management	ADMINISTRATIVE SCIENCE QUARTERLY	0001-8392	47%
Public Administration	JOURNAL OF PUBLIC ADMINISTRATION RESEARCH AND THEORY	1053-1858	83%
Public Administration	PUBLIC ADMINISTRATION REVIEW	0033-3352	83%
Public Administration	JOURNAL OF POLICY ANALYSIS AND MANAGEMENT	0276-8739	50%
Public Administration	PUBLIC ADMINISTRATION	0033-3298	50%
Hospitality & Tourism Management	ANNALS OF TOURISM RESEARCH	0160-7383	83%
Hospitality & Tourism Management	INTERNATIONAL JOURNAL OF HOSPITALITY MANAGEMENT	0278-4319	75%
Hospitality & Tourism Management	TOURISM MANAGEMENT	0261-5177	75%
Hospitality & Tourism Management	JOURNAL OF TRAVEL RESEARCH	0047-2875	67%
Hospitality & Tourism Management	INTERNATIONAL JOURNAL OF CONTEMPORARY HOSPITALITY MANAGEMENT	0959-6119	58%
Hospitality & Tourism Management	JOURNAL OF HOSPITALITY & TOURISM RESEARCH	1096-3480	42%
Agricultural Economics	AMERICAN JOURNAL OF AGRICULTURAL ECONOMICS	0002-9092	99%
Agricultural Economics	EUROPEAN REVIEW OF AGRICULTURAL ECONOMICS	0165-1587	75%
Agricultural Economics	JOURNAL OF ENVIRONMENTAL ECONOMICS AND MANAGEMENT	0095-0696	75%
Agricultural Economics	AGRICULTURAL ECONOMICS	0169-5150	50%
Agricultural Economics	LAND ECONOMICS	0023-7639	50%
Library & Information Science	MIS QUARTERLY	0276-7783	50%
Library & Information Science	JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY	1532-2882	38%

Academic Subject	Journal Name	ISSN	Percentage Voted
Library & Information Science	GOVERNMENT INFORMATION QUARTERLY	0740-624X	25%
Library & Information Science	INFORMATION & MANAGEMENT	0378-7206	25%
Library & Information Science	JOURNAL OF INFORMATION SCIENCE	0165-5515	25%
Library & Information Science	JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION	1067-5027	25%
Sports Science	JOURNAL OF APPLIED PHYSIOLOGY	8750-7587	67%
Sports Science	JOURNAL OF SPORTS SCIENCES	0264-0414	67%
Sports Science	MEDICINE AND SCIENCE IN SPORTS AND EXERCISE	0195-9131	67%

Academic Subject	Conference Name	Conference Abbreviation	Percentage Voted
Computer Science & Engineering	Conference on Neural Information Processing Systems	NeurIPS (formerly NIPS)	30%
Computer Science & Engineering	INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE	IJCAI	22%
Computer Science & Engineering	International Conference on Machine Learning	ICML	20%
Computer Science & Engineering	Conference on Computer Vision and Pattern Recognition	CVPR	19%
Computer Science & Engineering	THE AAAI CONFERENCE ON ARTIFICIAL INTELLIGENCE	AAAI	19%
Computer Science & Engineering	ACM SIGGRAPH	SIGGRAPH	18%
Computer Science & Engineering	ACM Symposium on Theory of Computing	STOC	18%
Computer Science & Engineering	Symposium on Principles of Programming Languages	POPL	16%
Computer Science & Engineering	ACM Conference on Human Factors in Computing Systems	CHI	15%
Computer Science & Engineering	ACM SIGMOD Conference	SIGMOD	15%
Computer Science & Engineering	USENIX Symposium on Operating Systems Design and Implementation	OSDI	15%
Computer Science & Engineering	International Conference on Very Large Data Bases	VLDB	14%
Computer Science & Engineering	Programming Language Design and Implementation	PLDI	14%
Computer Science & Engineering	IEEE Symposium on Foundations of Computer Science	FOCS	13%
Computer Science & Engineering	International Conference on Architectural Support for Programming Languages and Operating Systems	ASPLOS	13%
Computer Science & Engineering	International Conference on Computer Aided Verification	CAV	11%
Computer Science & Engineering	ACM SIGCOMM Conference	SIGCOMM	10%
Computer Science & Engineering	ACM Special Interest Group on Knowledge Discovery and Data Mining	SIGKDD	10%
Computer Science & Engineering	ACM Symposium on Operating Systems Principles	SOSP	10%
Computer Science & Engineering	IEEE International Conference on Robotics and Automation	ICRA	10%
Computer Science & Engineering	International Conference on Computational Learning Theory	COLT	10%
Computer Science & Engineering	International Symposium on Computer Architecture	ISCA	10%
Computer Science & Engineering	European Symposium on Programming	ESOP	8%
Computer Science & Engineering	International Cryptology Conference	CRYPTO	8%
Computer Science & Engineering	ACM SIGGRAPH Asia	SIGGRAPH Asia	5%
Computer Science & Engineering	Theory of Cryptography Conference	TCC	4%

Academic Subject	Award	Percentage Voted
Mathematics	Fields Medal	89%
Mathematics	The Abel Prize	84%
Physics	Nobel Prize in Physics	92%
Chemistry	Nobel Prize in Chemistry	96%
Chemistry	Wolf Prize in Chemistry	59%
Chemistry	Priestley Medal	41%
Earth Sciences	Crafoord Prize in Geosciences	45%
Atmospheric Science	The Carl-Gustaf Rossby Research Medal	67%
Atmospheric Science	The Jule G. Charney Award	50%
Mechanical Engineering	ASME Medal	49%
Mechanical Engineering	Timoshenko Medal	43%
Electrical & Electronic Engineering	IEEE Medal of Honor	86%
Automation & Control	IEEE Control Systems Award	43%
Computer Science & Engineering	A. M. Turing Award	89%
Civil Engineering	International Award of Merit in Structural Engineering	20%
Chemical Engineering	Andreas Acrivos Award for Professional Progress in Chemical Engineering	49%
Materials Science & Engineering	MRS Medal Award	64%
Materials Science & Engineering	Von Hippel Award	49%
Environmental Science & Engineering	Stockholm Water Prize	50%
Water Resources	ROBERT E. HORTON MEDAL	67%
Water Resources	EGU John Dalton Medal	33%
Marine/Ocean Engineering	ASME-OOAE Lifetime Achievement Award	67%
Biological Sciences	Nobel Prize in Physiology or Medicine	69%
Human Biological Sciences	Nobel Prize in Physiology or Medicine	78%
Clinical Medicine	Nobel Prize in Physiology or Medicine	84%
Clinical Medicine	Lasker-DeBakey Clinical Medical Research Award	42%
Dentistry & Oral Sciences	IADR Distinguished Scientist Award	54%
Nursing	Nurse Researcher Hall of Fame	50%
Medical Technology	ISMRM Gold Medal	99%
Pharmacy & Pharmaceutical Sciences	Nobel Prize in Physiology or Medicine	56%
Economics	The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel	91%
Statistics	COPSS Presidents' Award	59%
Political Sciences	The Johan Skytte Prize in Political Science	64%
Hospitality & Tourism Management	Ulysses Prize	33%
Library & Information Science	ASIST Award of Merit	38%

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⁴ In <http://shanghairanking.com/activities> , ShanghaiRanking Academic Excellence Survey, acedido 28 de maio de 2021.