



World University Rankings® by Subject 2020

Fact File

Summary Version
Version 1.0

UNIVERSIDADE DE SÃO PAULO (USP)

BRAZIL

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THE 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT
WILL BE LAUNCHED ON 4 MARCH 2020 ON www.topuniversities.com

WELCOME TO THE 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

Welcome to your institution's fact file for the QS World University Rankings by Subject 2020.

This file provides the scores for your institution in the subjects that you have been evaluated in, as well as the scores and ranks for those subjects where you made it into the published rankings table. It should also provide you with useful information for any media communication you might need to prepare prior to launch.

To produce the rankings for this year the team analysed over 22 million papers, producing close to 200 million citations. 1,368 institutions have been ranked across 48 subjects in 5 subject areas, creating over 15,500 published entries. These figures reflect some of the scale behind this huge undertaking that the team carries out in order to produce these subject rankings.

The first section contains an "at a glance" summary of your institution's performance across the board in all the subject areas covered. The wheel chart is a graphical representation – brightly coloured bars indicate that you have achieved a score in that subject; the longer the bar the higher the score you have attained. A pale bar in a subject area indicates your performance in the broad subject area.

The next table shows a summary of your scores and ranks in all the subjects you have been ranked in including a column which also shows your domestic rank in that subject. The following table then shows you your results in the subject rankings for the last three years so you can track your progress.

In the Appendix you will find an explanation of the weightings that make up the different subject tables, the evolution of the subject rankings exercise, the paper thresholds that we have used in this edition and an indication of the number of institutions considered and ranked.

I hope you will find this useful, but we have also prepared a more extensive EXTENDED FACT FILE for you, presenting your institution in context, subject by subject, indicator by indicator in greater depth. Please file a request via the link attached in the email and the team will aim to get back to you within a couple of days depending on the volume of requests.

Selina Griffin
Rankings Manager, QS

2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

UNIVERSIDADE DE SÃO PAULO (USP)

AT A GLANCE

RANKED IN

5 BROAD SUBJECT AREAS

SCORED IN

45 SUBJECTS

RANKED IN

40 SUBJECTS

TOP 100 FOR

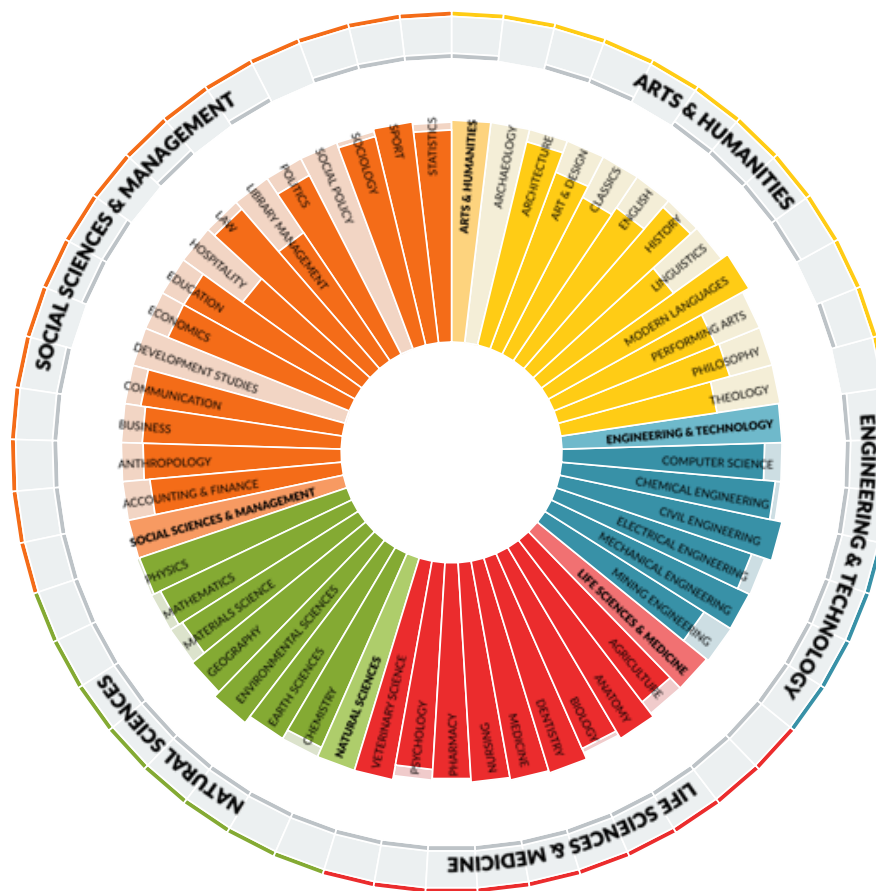
5 BROAD SUBJECT AREAS






TOP 100 FOR

31 SUBJECTS

TOP 50 FOR

11 SUBJECTS



- Arts & Humanities 
- Engineering & Technology 
- Life Sciences & Medicine 
- Natural Sciences 
- Social Sciences & Management 

Each bar presents the score in the given subject;

Lightly shaded areas indicate performance in the corresponding broad subject area.

2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT AREA

UNIVERSIDADE DE SÃO PAULO (USP)

Brazil

63=

86=

79

76=

63=

These are the ranks achieved by the institution in the QS Rankings by Broad Subject Area.

Arts & Humanities

Engineering & Technology

Life Sciences & Medicine

Natural Sciences

Social Sciences & Management



OVERALL SCORES BY SUBJECT AREA



In 2020, Universidade de São Paulo (USP) has been ranked in **5** out of 5 broad subject areas.

Arts & Humanities is the institution's strongest field at **63=** and an overall score of **78.4**.

2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

Below is the institution's detailed performance by indicator and overall score across the 48 subjects currently featured in the QS World University Rankings by Subject. It is very unusual for an institution to qualify for consideration in all 48 subjects.

		Global Rank	Domestic Rank	Academic	Employer	Citations	H-index	Score
Arts & Humanities	Arts & Humanities	63=	1	83.6	83.1	72.5	43.6	78.4
	Archaeology							
	Architecture / Built Environment	43	1	71.7	84.4	80.9	72.0	73.9
	Art & Design	51-100	1	64.3	87.2			66.6
	Classics & Ancient History			60.7	76.6			62.3
	English Language & Literature	151-200	1	65.3	79.0	50.6		65.2
	History	51-100	1	76.7	75.9	73.9	71.5	75.4
	Linguistics	151-200	2	54.7	76.8	58.8	61.6	57.5
	Modern Languages	42=	1	82.6	77.4			81.0
	Performing Arts			59.9	69.5			61.8
	Philosophy	101-150	1	63.2	79.6	64.3	51.0	62.9
Theology, Divinity & Religious Studies			48.6	84.8	63.1	70.1	55.8	
Engineering & Technology	Engineering & Technology	86=	1	77.2	80.6	74.7	77.1	77.8
	Computer Science & Information Systems	51-100	1	58.8	82.3	74.8	81.0	71.6
	Engineering - Chemical	51-100	1	71.8	79.9	75.8	78.5	75.8
	Engineering - Civil & Structural	46	1	73.6	90.2	81.4	77.2	80.3
	Engineering - Electrical & Electronic	51-100	1	67.0	79.7	75.9	71.7	72.9
	Engineering - Mechanical, Aeronautical & Manufact..	51-100	1	72.4	81.2	78.8	82.7	77.5
	Engineering - Mineral & Mining	33=	1	38.4	86.7	85.2	82.4	66.5
Life Sciences & Medicine	Life Sciences & Medicine	79	1	82.4	80.5	70.5	73.3	77.0
	Agriculture & Forestry	49=	1	64.7	67.2	75.6	88.5	71.9
	Anatomy & Physiology	49=	1	73.7	81.6	74.5	88.5	78.4
	Biological Sciences	101-150	1	71.1	80.3	76.5	78.9	75.3
	Dentistry	18=	1	58.6	75.3	82.9	97.9	79.4
	Medicine	51-100	1	72.8	72.8	81.2	87.7	78.6
	Nursing	51-100	1	68.8	76.6	78.0	86.5	77.7
	Pharmacy & Pharmacology	51-100	1	66.1	75.3	82.6	87.0	76.4
	Psychology	101-150	1	70.4	85.0	74.6	65.6	73.2
	Veterinary Science	48	1	74.2	83.0	77.5	82.4	78.5

2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

		Global Rank	Domestic Rank	Academic	Employer	Citations	H-index	Score
Natural Sciences	Natural Sciences	76=	1	76.6	80.4	75.8	83.1	78.5
	Chemistry	101-150	1	70.1	81.1	77.7	75.5	74.9
	Earth & Marine Sciences	51-100	1	73.2	81.9	79.8	84.1	78.4
	Environmental Sciences	51-100	1	78.6	80.6	82.1	84.7	81.2
	Geography	47	1	83.4	80.4	76.4	62.8	79.0
	Materials Science	101-150	1	69.7	81.9	79.9	69.7	73.5
	Mathematics	51-100	1	72.8	77.9	73.9	77.0	74.9
	Physics & Astronomy	51-100	1	72.5	81.3	77.7	83.1	77.4
Social Sciences & Management	Social Sciences & Management	63=	1	78.1	80.5	77.5	67.8	77.7
	Accounting & Finance	51-100	1	65.2	79.8	48.8	65.6	68.0
	Anthropology	51-100	2	70.8	74.4	65.6	64.4	70.0
	Business & Management Studies	51-100	1	61.6	76.9	76.6	87.4	70.3
	Communication & Media Studies	51-100	1	72.2	83.6	71.5	66.1	72.0
	Development Studies							
	Economics & Econometrics	101-150	1	68.9	78.7	69.1	60.0	69.1
	Education	101-150	1	65.7	83.3	69.0	70.0	69.0
	Hospitality & Leisure Management			58.8	48.2	26.8		51.9
	Law	47=	1	74.6	80.2	73.8	63.1	74.5
	Library & Information Management			49.4	76.4	60.9	64.0	54.6
	Politics & International Studies	51-100	1	66.4	82.4	67.3	63.2	71.0
	Social Policy & Administration							
	Sociology	51-100	1	79.8	80.0	69.7	56.3	75.8
	Sports-related Subjects	42=	1	74.0	81.0	85.9	87.9	78.6
Statistics & Operational Research	51-100	1	68.2	77.3	71.8	93.4	74.9	

NOTES:

There are different reasons why an institution may not have results in any given subject.

1. It may not offer a program
2. It may not have published a sufficient number of papers
3. It may not have attracted a minimum level of recognition through our surveys.
4. Receiving a score for a particular subject does not guarantee that we have checked for its presence in your institution. These checks are only carried out for institutions with a score high enough to receive a published rank in the subject.

2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

The tables below present the rank evolution in each evaluated subject.

		2018	2019	2020	
Arts & Humanities	Arts & Humanities	79=	76	63=	
	Art & Design	31=	51-100	51-100	
	History	51-100	51-100	51-100	
	Archaeology				
	Architecture / Built Environment	28	44	43	
	Classics & Ancient History				
	English Language & Literature	151-200	151-200	151-200	
	Linguistics	151-200	151-200	151-200	
	Modern Languages	42=	30=	42=	
	Performing Arts	51-100			
	Philosophy	51-100	101-150	101-150	
	Theology, Divinity & Religious Studies				
Engineering & Technology	Engineering & Technology	142=	89=	86=	
	Computer Science & Information Systems	51-100	51-100	51-100	
	Engineering - Chemical	51-100	51-100	51-100	
	Engineering - Civil & Structural	51-100	45=	46	
	Engineering - Mechanical, Aeronautical & Manufactu..	101-150	51-100	51-100	
	Engineering - Electrical & Electronic	101-150	51-100	51-100	
	Engineering - Mineral & Mining	33	33	33=	
Life Sciences & Medicine	Life Sciences & Medicine	96=	93	79	
	Agriculture & Forestry	36	49	49=	
	Anatomy & Physiology	51-100	51-100	49=	
	Biological Sciences	101-150	101-150	101-150	
	Medicine	51-100	51-100	51-100	
	Pharmacy & Pharmacology	51-100	51-100	51-100	
	Psychology	101-150	101-150	101-150	
	Veterinary Science	47		48	
	Dentistry	15=	20=	18=	
	Nursing	51-100	51-100	51-100	
	Natural Sciences	Natural Sciences	109=	71	76=
Chemistry		101-150	101-150	101-150	
Earth & Marine Sciences		51-100	51-100	51-100	
Environmental Sciences		51-100	51-100	51-100	
Geography		51-100	42	47	
Materials Science		101-150	101-150	101-150	
Mathematics		51-100	51-100	51-100	
Physics & Astronomy		51-100	51-100	51-100	
Social Sciences & Management		Social Sciences & Management	107=	69=	63=
		Accounting & Finance	51-100	51-100	51-100
		Anthropology	46	51-100	51-100
	Business & Management Studies	101-150	101-150	51-100	
	Communication & Media Studies	51-100	101-150	51-100	
	Development Studies				
	Economics & Econometrics	101-150	101-150	101-150	
	Education	51-100	101-150	101-150	
	Hospitality & Leisure Management				
	Law	50	45	47=	
	Library & Information Management				
	Politics & International Studies	51-100	51-100	51-100	
	Social Policy & Administration				
	Sociology	51-100	51-100	51-100	
Sports-related Subjects	20	27	42=		
Statistics & Operational Research	51-100	51-100	51-100		



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APPENDICES



DEFINITIONS,
WEIGHTINGS,
THRESHOLDS,
AND HEADLINE FIGURES

2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

METHODOLOGY: DEFINITIONS & WEIGHTINGS

ACADEMIC REPUTATION

Between 2015 and 2019 QS has collected votes from over 94,000 academics around the world. Each academic counted has given their opinion on universities in their fields of expertise.

EMPLOYER REPUTATION

The employability metric is based on employer reputation. Over 44,000 global employer votes have been taken into account between 2015 and 2019 giving us a large pool of information in terms of hiring levels. Employers across all sectors and industries have taken part in the survey and include Facebook, Google, Uber, Wells Fargo, Bank of America etc.

CITATIONS PER PAPER

This ratio measures the average number of citations obtained per publication, and is an estimate of the impact and quality of the scientific work done by universities. To avoid anomalous results, only the institutions producing a minimum number of papers in the last five years are evaluated.

H-INDEX

The h-index is an index that attempts to measure both the productivity and impact of the work published by the institutions' scientists and scholars. The index is based on the set of the institution's most cited papers and the number of citations that they have received in other publications.

Arts & Humanities



60%

Engineering & Technology



40%

Life Sciences & Medicine



40%

Natural Sciences

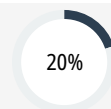


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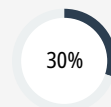
Social Sciences & Management



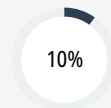
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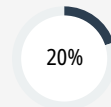
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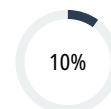
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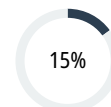
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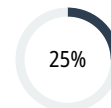
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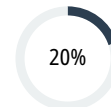
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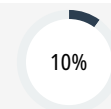
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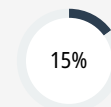
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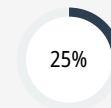
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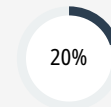
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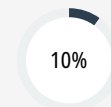
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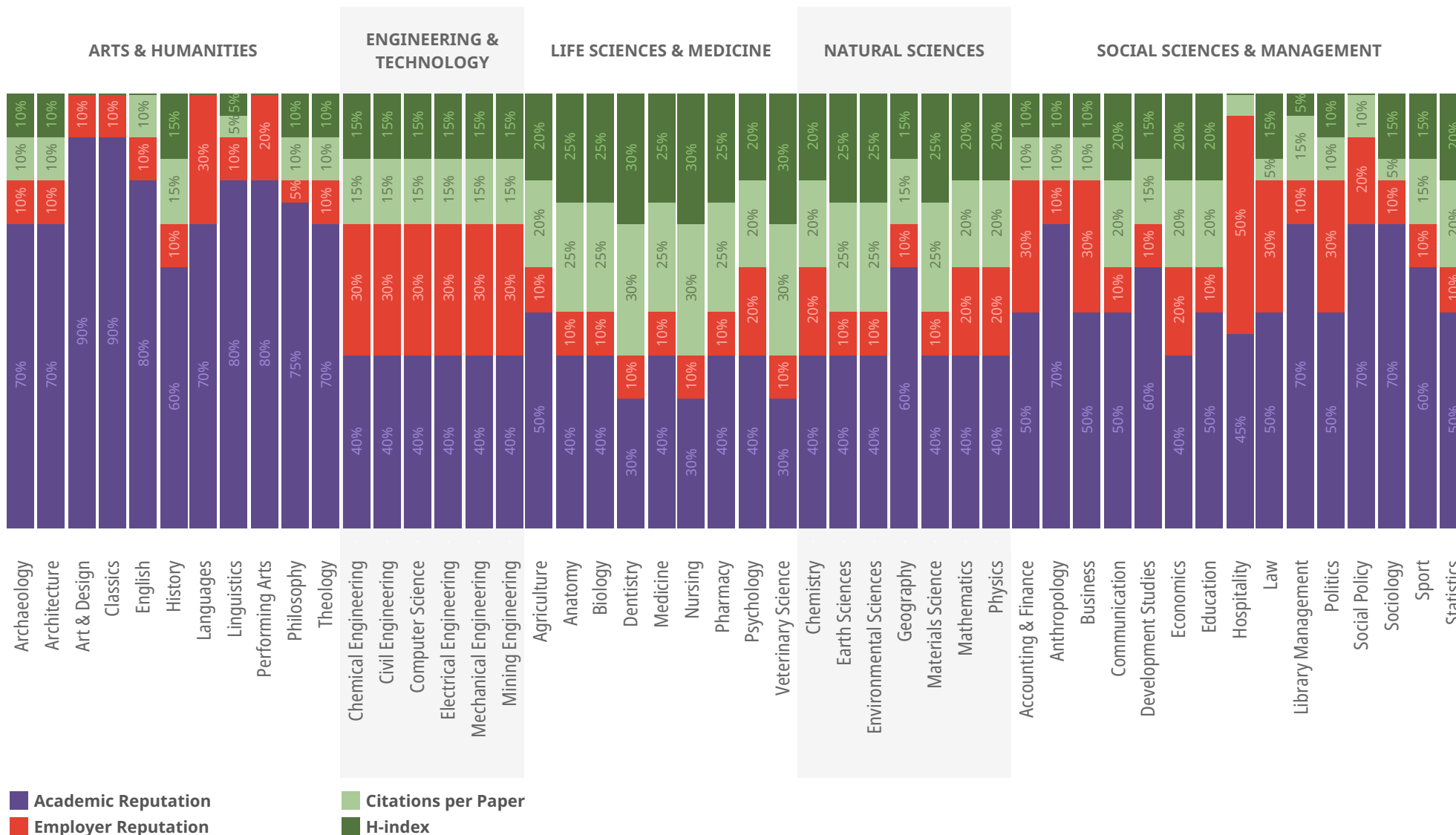
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10%

2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

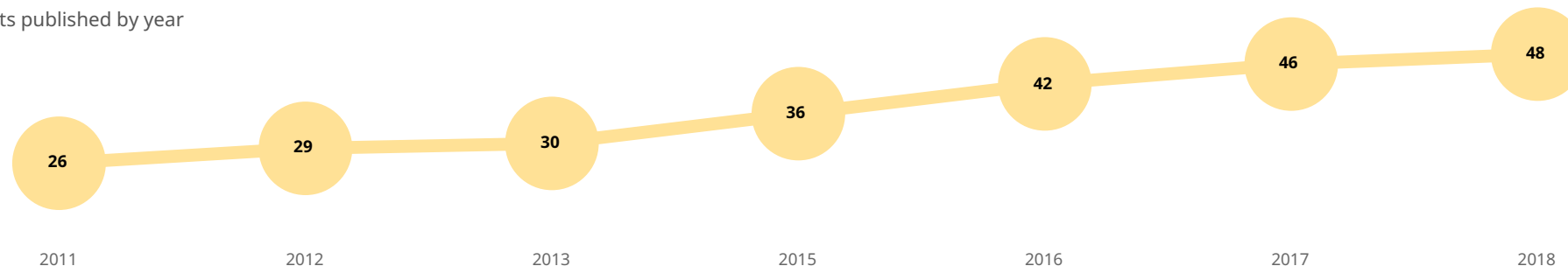
We use a variable approach to the weightings for the different subjects. The chart below provides details of the combinations used in the 2020 edition of the rankings.



2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

The **QS World University Rankings® by Subject** ranks the world's top universities in individual subject areas, covering 48 disciplines as of 2020. A list of the considered subjects, grouped by the year of first release, is presented below.

Subjects published by year



2011	2012	2013	2015	2016	2017	2018
Accounting & Finance Biology Chemical Engineering Chemistry Civil Engineering Computer Science Earth Sciences Economics Electrical Engineering English Environmental Sciences Geography History Languages Law Linguistics Materials Science Mathematics Mechanical Engineering Medicine Philosophy Physics Politics Psychology Sociology Statistics	Communication Education Pharmacy	Agriculture	Architecture Art & Design Business Dentistry Development Studies Veterinary Science	Anthropology Archaeology Mining Engineering Nursing Performing Arts Social Policy	Anatomy Hospitality Sport Theology	Classics Library Management

PUBLISHED INSTITUTIONS BY LOCATION



TOP 10 LOCATIONS BY NUMBER OF INSTITUTIONS CONSIDERED

United States	441
France	191
United Kingdom	173
India	165
Russia	163
Germany	138
China (mainland)	131
Japan	122
South Korea	107
Brazil	94

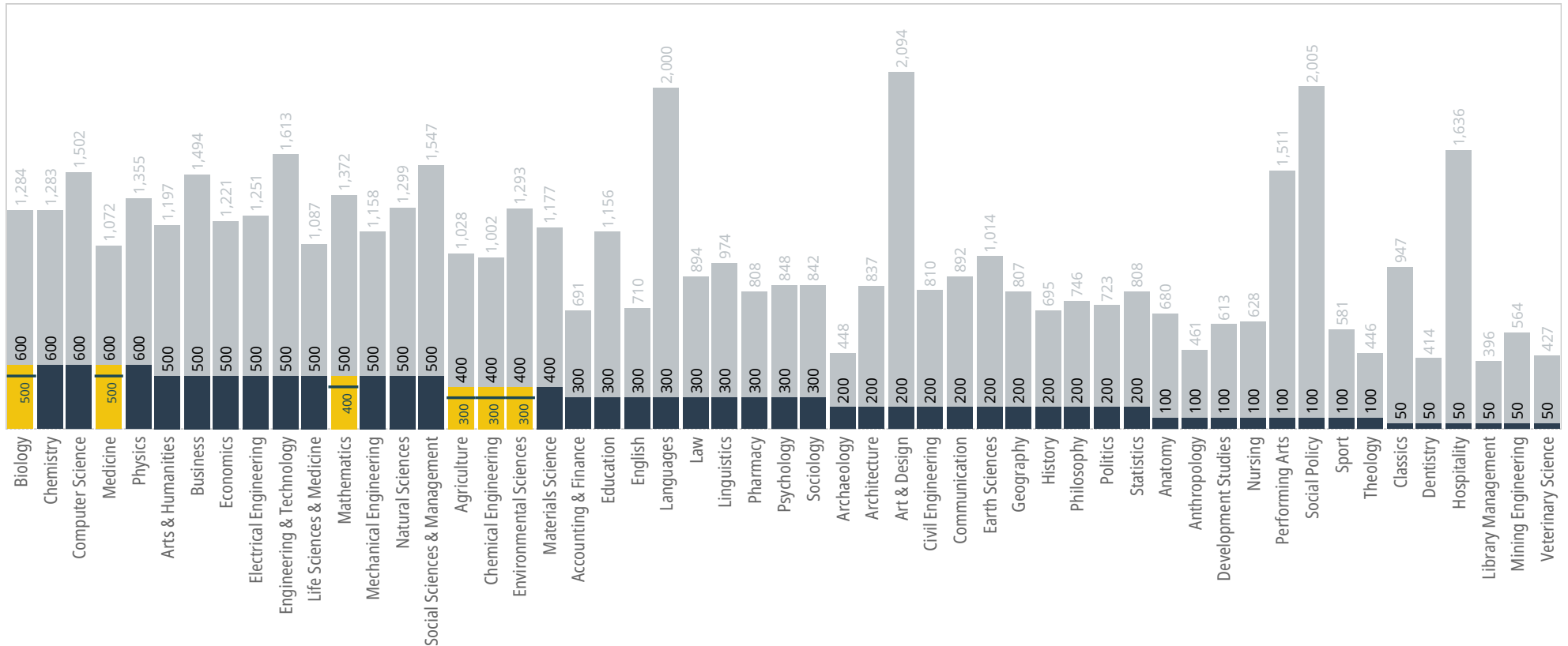
2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

The charts below present the number of institutions considered and published in each of the relevant subject areas.

Subjects	Locations	Institutions
48	158	1,369

INSTITUTIONS CONSIDERED AND PUBLISHED BY SUBJECT - YEAR 2020

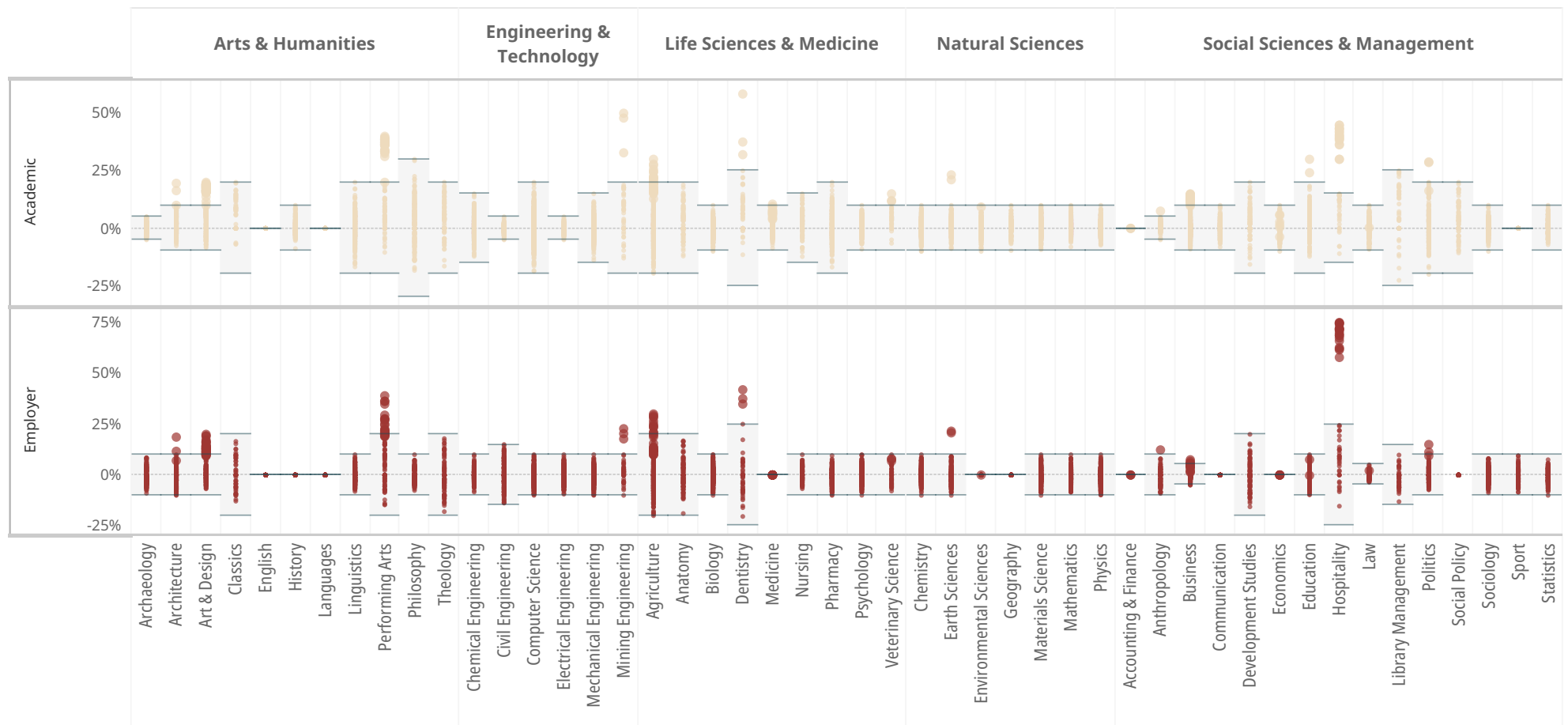
Subjects with **highlight color** have extended publishing ranges.



2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

In the QS Subject Rankings methodology, a specialization adjustment is applied to the original reputation scores in order to boost the performance of those institutions that present a stronger focus in specific subjects. The original rank calculated for each subject is compared against the rank obtained in the relevant broad subject area containing the said subject according to the QS mapping. For example, the results in Biology are compared against the overall rank in Life Sciences & Medicine. Whenever the rank difference between the subject and the broad area exceeds five places, a positive or negative adjustment is applied in the Reputation score. The method compares the proportional difference for each institution against the maximum and minimum recorded globally. The maximum change cannot exceed the percentages presented in the chart below.

DISTRIBUTION OF SPECIALIST ADJUSTMENTS - REPUTATION



2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

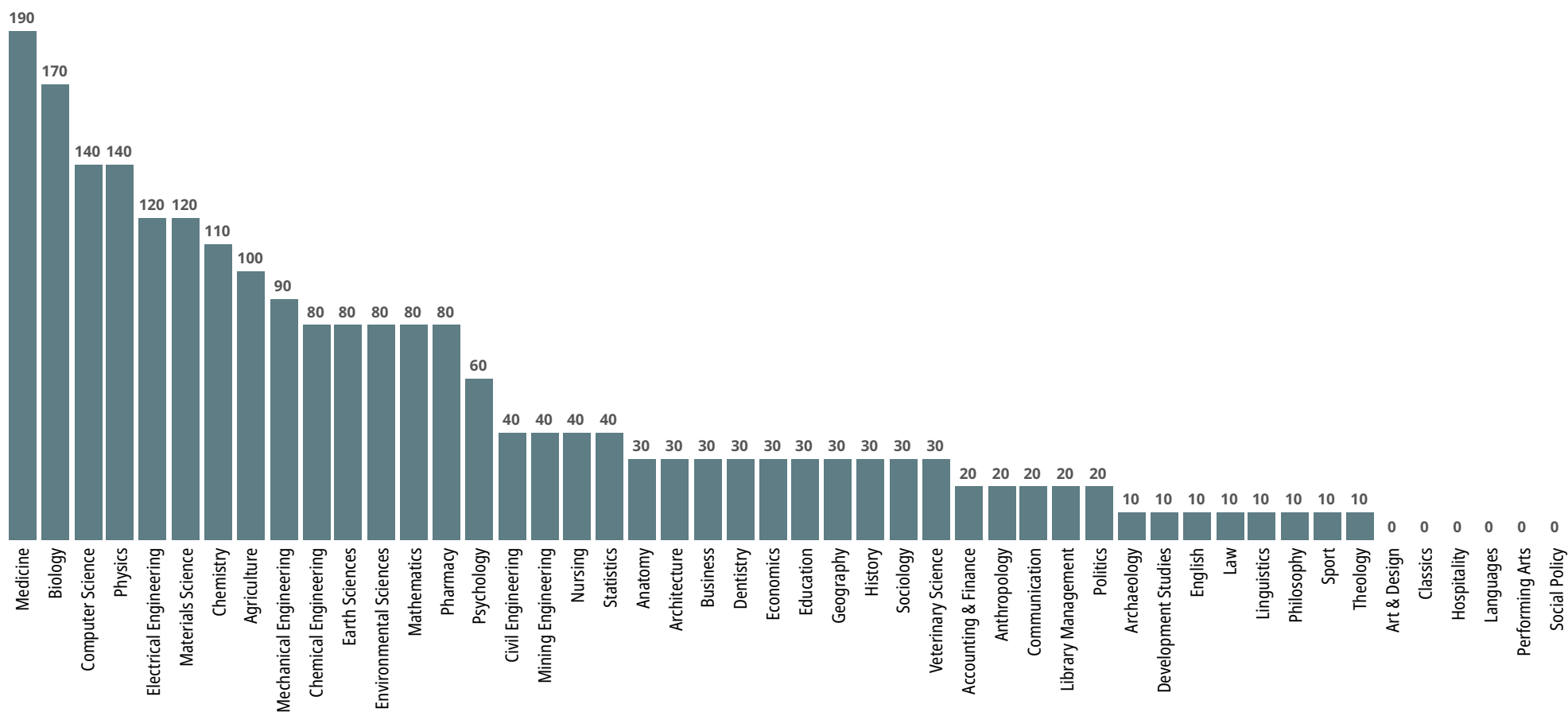
In order to feature in any discipline table, an institution must meet three simple prerequisites:

- Offer undergraduate or taught postgraduate programmes in the given discipline
- Exceed the minimum required score for the academic and/or employer reputation indicators
- Exceed the five-year threshold for number of papers published and indexed by Scopus in the given discipline

The following chart discloses the minimum number of papers required to be considered in the latest edition of the rankings by subject.

PAPER THRESHOLD BY SUBJECT - YEAR 2020

MINIMUM NUMBER OF PUBLICATIONS INDEXED BY SCOPUS REQUIRED TO BE CONSIDERED IN THE RANKINGS.



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