QS WORLD UNIVERSITY RANKINGS

SUBJECT RANKINGS | 2021

FACT FILE

WAGENINGEN UNIVERSITY

NETHERLANDS

QS INTELLIGENCE UNIT

THE DATA CONTAINED HEREIN IS RELEASED UNDER EMBARGO AND MAY NOT BE RE-PUBLISHED OR REFERENCED WHOLE OR IN PART UNTIL WEDNESDAY 3rd MARCH AT 21:00 UTC/GMT

Summary Version
Version 1.0

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THE 2021 QS WORLD UNIVERSITY RANKINGS BY SUBJECT
WILL BE LAUNCHED ON WEDNESDAY 3rd MARCH AT 21:00 UTC/GMT ON www.topuniversities.com

WELCOME TO THE **2021 QS WORLD UNIVERSITY RANKINGS BY SUBJECT**

Welcome to your institution's fact file for the QS World University Rankings by Subject 2021.

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 13.9 million unique papers, producing close to 81 million citations. 1453 institutions ranked across 51 subjects in 5 subject areas, creating over 16,981 published entires. These figures reflect some of the scale behind this huge undertaking that the team carries out in order to produce these subject rankings.

The 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.

We 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.

Rankings Team,
QS Intelligence Unit

2021 QS WORLD UNIVERSITY RANKINGS BY SUBJECT AREA

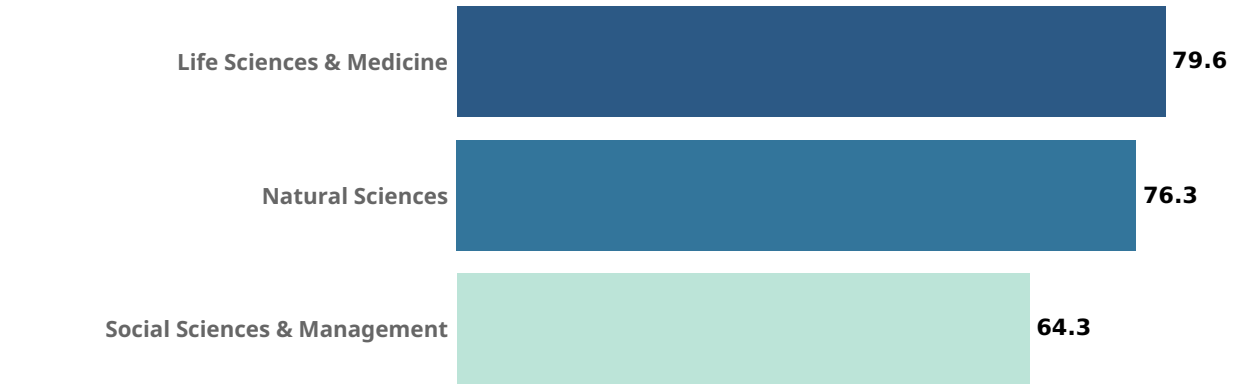
WAGENINGEN UNIVERSITY

Netherlands

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
		59	112=	331=

OVERALL SCORES BY SUBJECT AREA



In 2021, Wageningen University has been ranked in **3** out of 5 broad subject areas.

Life Sciences & Medicine is the institution's strongest field at rank **59** with an overall score of **79.6**.

2021 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

Below is the institution's detailed performance by indicator and overall score across the 51 narrow subjects and 5 broad subject areas currently featured in the QS World University Rankings by Subject. It is very unusual for an institution to qualify for consideration in all 51 narrow subjects and 5 broad subject areas.

		Global Rank	Domestic Rank	Academic	Employer	Citations	H-index	Score
Arts & Humanities	Arts & Humanities							
	Archaeology			40.3	35.2	74.2	60.4	45.2
	Architecture / Built Environment	101-150	3	58.7	73.8	74.5	69.8	62.9
	Art & Design			45.5	48.2			45.8
	English Language & Literature							
	History			24.2	47.3	79.2	64.4	40.8
	Philosophy							
Engineering & Technology	Engineering & Technology							
	Computer Science & Information Systems	551-600	11	32.2	55.7	69.2	65.3	49.8
	Engineering - Chemical							
	Engineering - Civil & Structural							
	Engineering - Electrical & Electronic							
	Engineering - Mechanical, Aeronautical & Manufact..							
	Engineering - Mineral & Mining							
	Petroleum Engineering							
Life Sciences & Medicine	Life Sciences & Medicine	59	4	88.0	73.0	81.0	67.4	79.6
	Agriculture & Forestry	1	1	100.0	92.1	98.0	100.0	98.8
	Anatomy & Physiology			48.7	42.9	90.8	81.3	66.8
	Biological Sciences	42	1	82.3	77.6	86.0	76.3	81.3
	Medicine							
	Nursing							
	Pharmacy & Pharmacology							
	Psychology			46.6	60.9	66.1	75.1	59.1
	Veterinary Science	17	1	79.6	96.4	93.1	85.0	87.0

2021 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

		Global Rank	Domestic Rank	Academic	Employer	Citations	H-index	Score
Natural Sciences	Natural Sciences	112=	4	72.0	68.0	90.2	79.2	76.3
	Chemistry							
	Earth & Marine Sciences	51-100	3	69.7	78.1	94.7	87.8	81.3
	Environmental Sciences	5=	1	99.6	75.6	92.5	99.4	95.4
	Geography	51-100	3	65.4	71.9	95.2	92.7	74.6
	Geology	49	3	67.5	80.0	95.4	87.2	83.0
	Geophysics	39=	2	67.5	80.1	97.5	86.3	83.4
	Materials Science							
	Mathematics			35.0	50.4	62.1	55.7	47.6
	Physics & Astronomy			36.2	52.3	67.6	47.8	48.0
Social Sciences & Management	Social Sciences & Management	331=	12	60.6	57.9	93.1	73.4	64.3
	Accounting & Finance			34.0	59.7	49.9	43.1	44.2
	Anthropology			43.7		72.1	69.4	44.7
	Business & Management Studies	351-400	10	47.9	53.8	80.8	87.0	56.9
	Communication & Media Studies			49.7	58.1	80.9	67.6	60.4
	Development Studies	13	2	81.2	63.1	89.5	93.6	82.5
	Economics & Econometrics	142=	7	62.4	58.1	79.8	67.3	66.0
	Education							
	Hospitality & Leisure Management			54.4	21.8	73.5	73.9	39.1
	Law			32.0	55.3	89.3	71.6	47.8
	Library & Information Management							
	Politics & International Studies			25.1	34.2	70.0	62.3	36.0
	Social Policy & Administration			55.0	67.9	90.2	69.8	61.1
	Sociology							
	Sports-related Subjects			37.9	54.2	63.0	50.4	45.2
	Statistics & Operational Research							

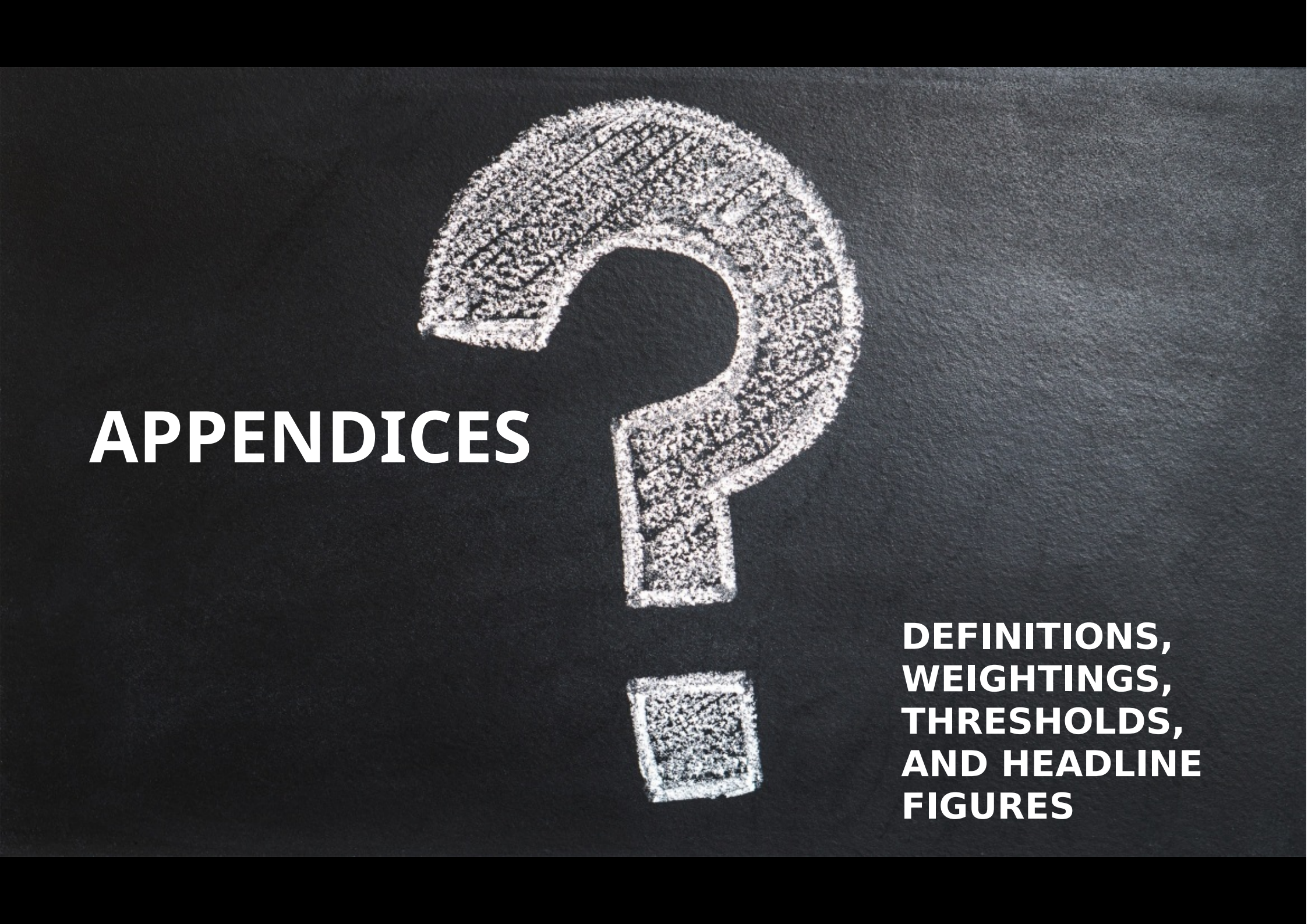
NOTES:
There are different reasons why an institution may not have results in any given subject.
1. It may not offer a program. Receiving a score for a particular subject does not guarantee that we have checked for its presence in your institution. These checks are only carried out for institutions with a score high enough to receive a published rank in the subject.
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. Score is not high enough to receive a published rank.
If you have a displayed score in reputation and citation indicators then you met the minimum threshold for consideration.

2021 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

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

		2019	2020	2021
Arts & Humanities	Arts & Humanities			
	Art & Design			
	History			
	Archaeology			
	Architecture / Built Environment	101-150	101-150	101-150
	English Language & Literature			
	Linguistics			
	Modern Languages			
	Philosophy			
Engineering & Technology	Engineering & Technology			
	Computer Science & Information Systems	501-550	451-500	551-600
	Engineering - Chemical			
	Engineering - Civil & Structural			
	Engineering - Mechanical, Aeronautical & Manufactu..			
	Engineering - Electrical & Electronic			
	Engineering - Mineral & Mining			
	Petroleum Engineering			
Life Sciences & Medicine	Life Sciences & Medicine	67	58	59
	Agriculture & Forestry	1	1	1
	Anatomy & Physiology			
	Biological Sciences	51-100	46	42
	Medicine			
	Pharmacy & Pharmacology			
	Psychology			
	Veterinary Science	15=	19	17
	Nursing			

		2019	2020	2021
Natural Sciences	Natural Sciences	181=	170	112=
	Chemistry			
	Earth & Marine Sciences	51-100	51-100	51-100
	Environmental Sciences	7	8	5=
	Geography			51-100
	Materials Science			
	Mathematics			
	Physics & Astronomy			
	Geology			49
	Geophysics			39=
Social Sciences & Management	Social Sciences & Management	336=	335=	331=
	Accounting & Finance			
	Anthropology			
	Business & Management Studies	351-400	351-400	351-400
	Communication & Media Studies			
	Development Studies	15	14	13
	Economics & Econometrics	151-200	101-150	142=
	Education			
	Hospitality & Leisure Management			
	Law			
	Library & Information Management			
	Politics & International Studies			
	Social Policy & Administration			
	Sociology			
	Sports-related Subjects			
	Statistics & Operational Research			


APPENDICES
DEFINITIONS, WEIGHTINGS, THRESHOLDS, AND HEADLINE FIGURES

METHODOLOGY: DEFINITIONS & WEIGHTINGS

ACADEMIC REPUTATION

Between 2016 and 2020 QS has collected votes from over 100,000 academics around the world. Each academic counted has given their opinion on universities in their fields of expertises.

EMPLOYER REPUTATION

The employability metric is based on employer reputation. Over 50,000 global employer votes have been taken into account between 2016 and 2020 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 minumum number of papers in the last five years are evaluated.

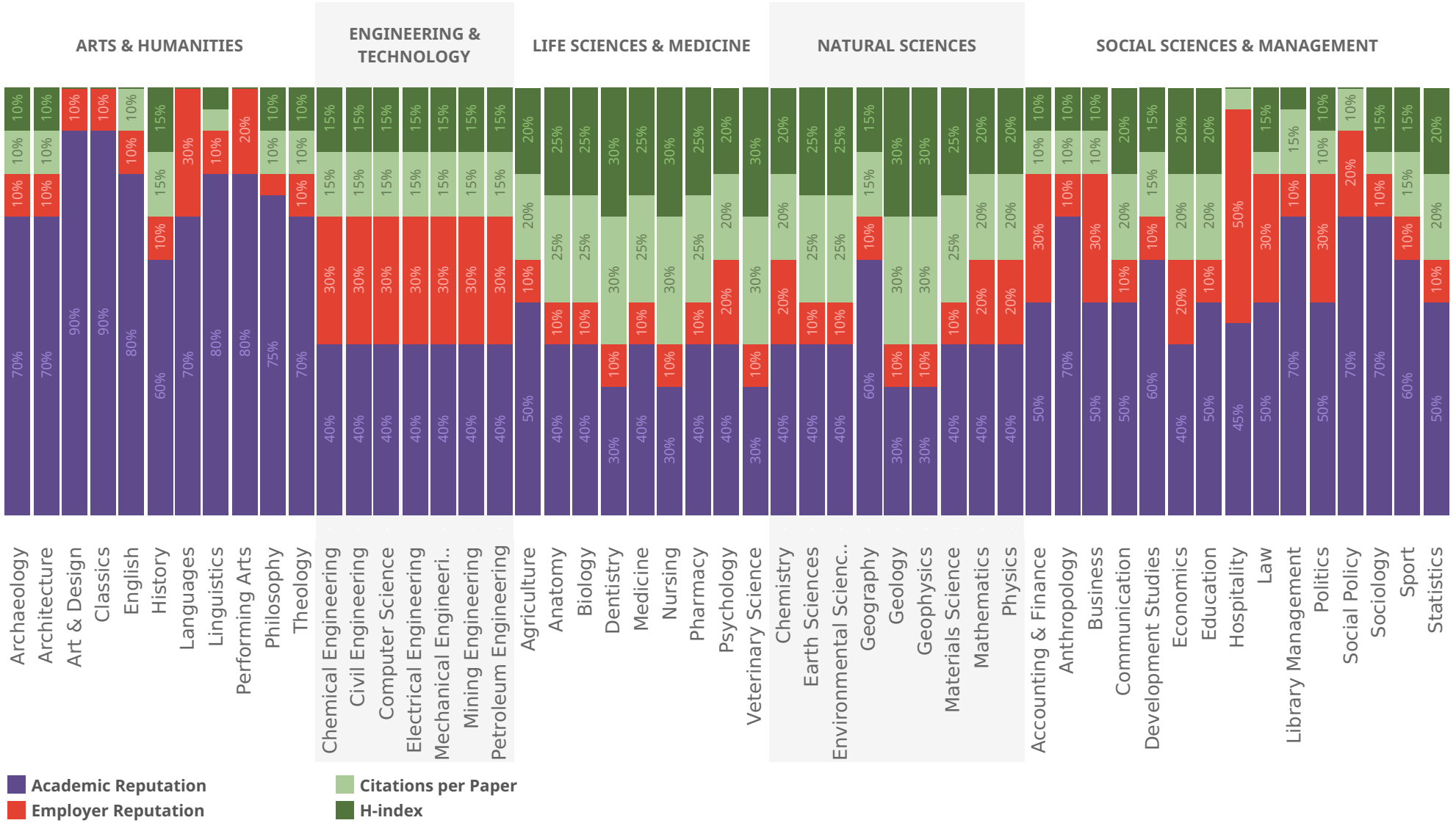
H-INDEX

The h-index is an index that attempts to measure both the productivity and impact of the work published by the insitutions' 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.

	ACADEMIC REPUTATION	EMPLOYER REPUTATION	CITATIONS PER PAPER	H-INDEX
Arts & Humanities	60%	20%	10%	10%
Engineering & Technology	40%	30%	15%	15%
Life Sciences & Medicine	40%	10%	25%	25%
Natural Sciences	40%	20%	20%	20%
Social Sciences & Management	50%	30%	10%	10%

2021 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

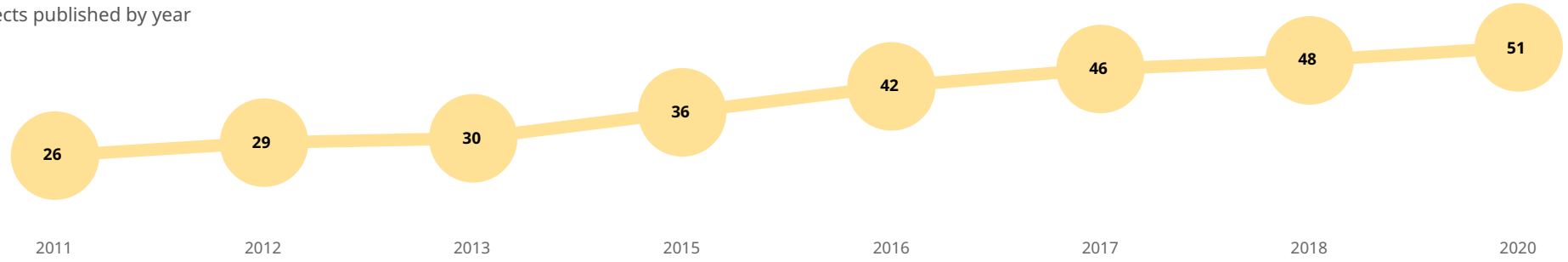
We use a variable approach to the weightings for the different subjects. The chart below provides details of the combinations used in the 2021 edition of the rankings.



2021 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

The **QS World University Rankings® by Subject** ranks the world's top universities in individual subject areas, covering 51 disciplines as of 2021. 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	2020
Accounting & Finance	Communication	Agriculture	Architecture	Anthropology	Anatomy	Classics	Geology
Biology	Education		Art & Design	Archaeology	Hospitality	Library Management	Geophysics
Chemical Engineering	Pharmacy		Business	Mining Engineering	Sport		Petroleum Engineering
Chemistry			Dentistry	Nursing	Theology		
Civil Engineering			Development Studies	Performing Arts			
Computer Science			Veterinary Science	Social Policy			
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							

PUBLISHED INSTITUTIONS BY LOCATION

TOP 10 LOCATIONS BY NUMBER OF INSTITUTIONS CONSIDERED

United States	508
China (mainland)	200
France	197
India	177
United Kingdom	172
Russia	170
Germany	135
Japan	129
South Korea	112
Brazil	98

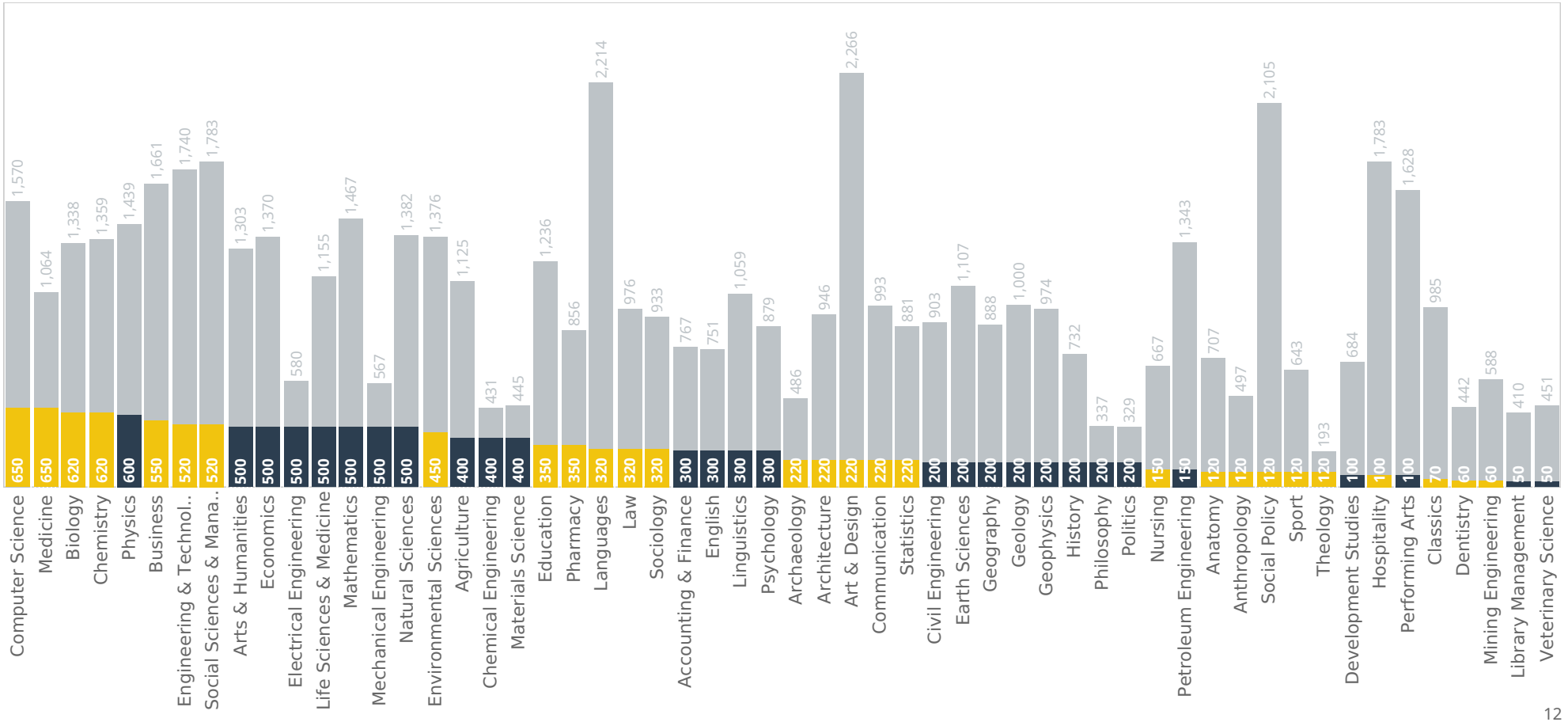
2021 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

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

Subjects Published	Locations Evaluated	Institutions Published
51	157	1,453

INSTITUTIONS EVALUATED AND **PUBLISHED** BY SUBJECT - YEAR 2021

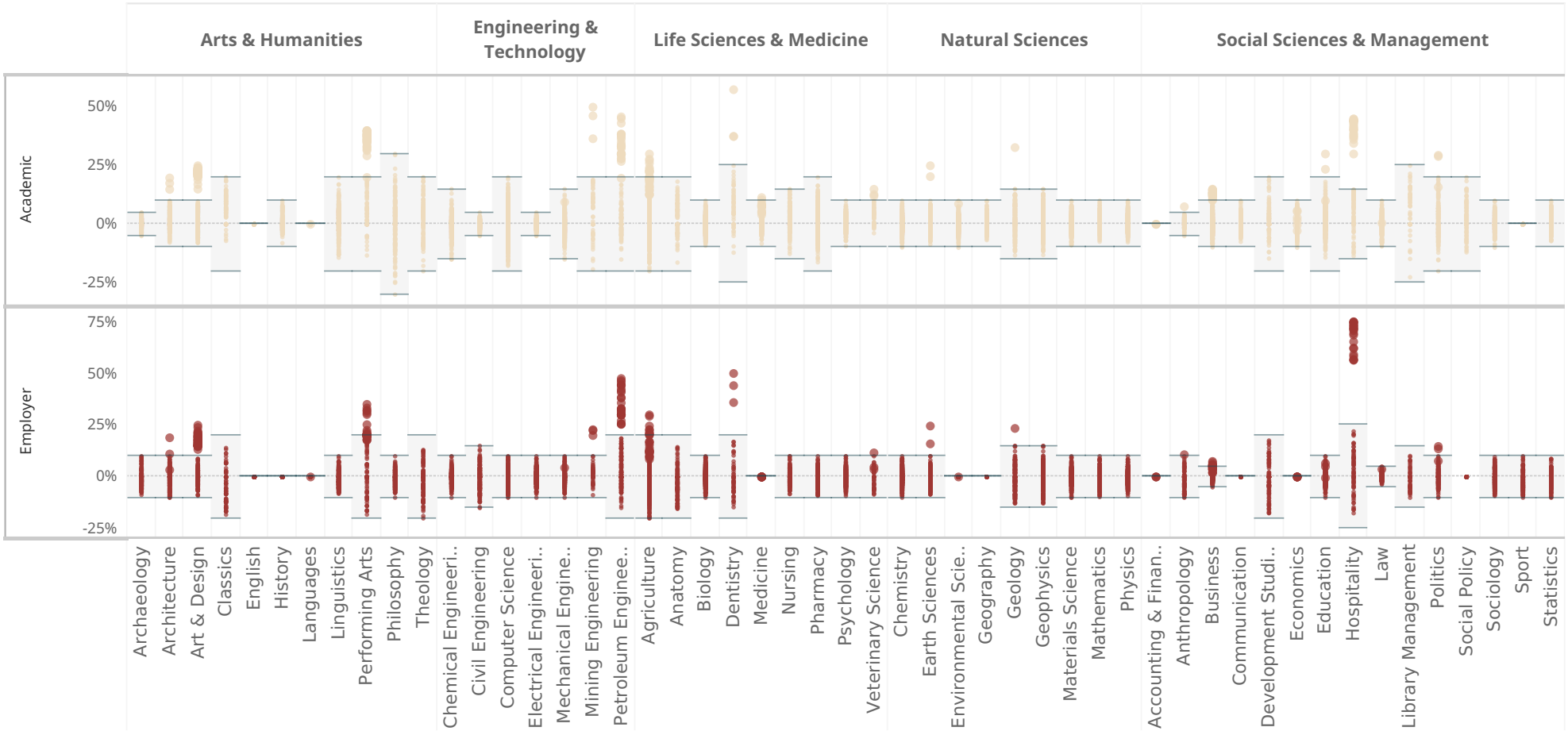
Subjects with highlight color have extended publishing ranges.



2021 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 an acceptable number of 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.

DISTRIBUTION OF SPECIALIST ADJUSTMENTS - REPUTATION



2021 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

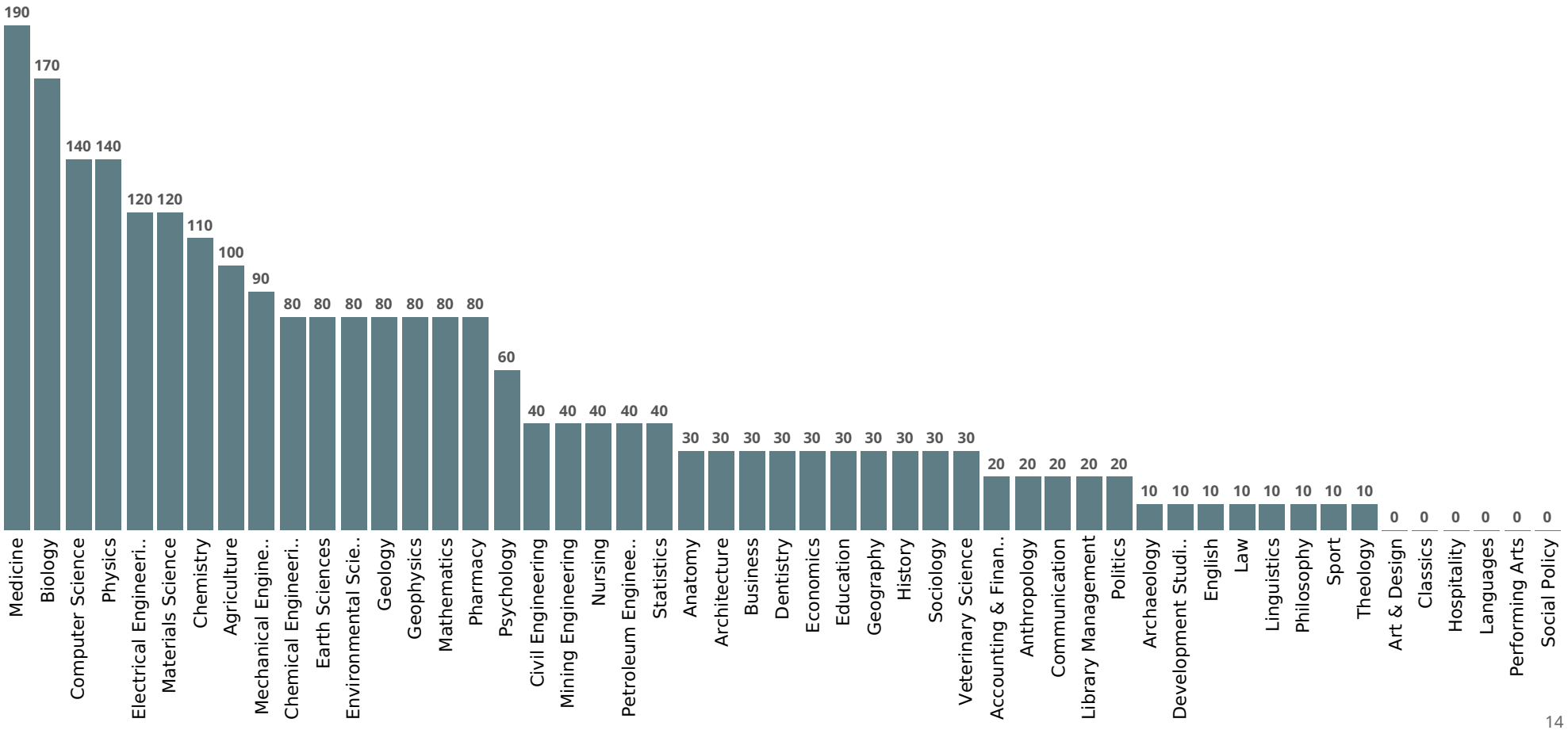
In order to feature in any discipline table, an institution must meet three simple prerequisites:

- 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 2021

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



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