QS WORLD UNIVERSITY RANKINGS

World University Rankings®
by Subject 2020

Fact File

Extended Version

Version 1.0

SUBJECT EXCELLENCE REPORT

RUSSIA

CONTENTS

THE **2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT**
WERE LAUNCHED ON **3 MARCH 2020** ON www.topuniversities.com

RUSSIA
AT A GLANCE

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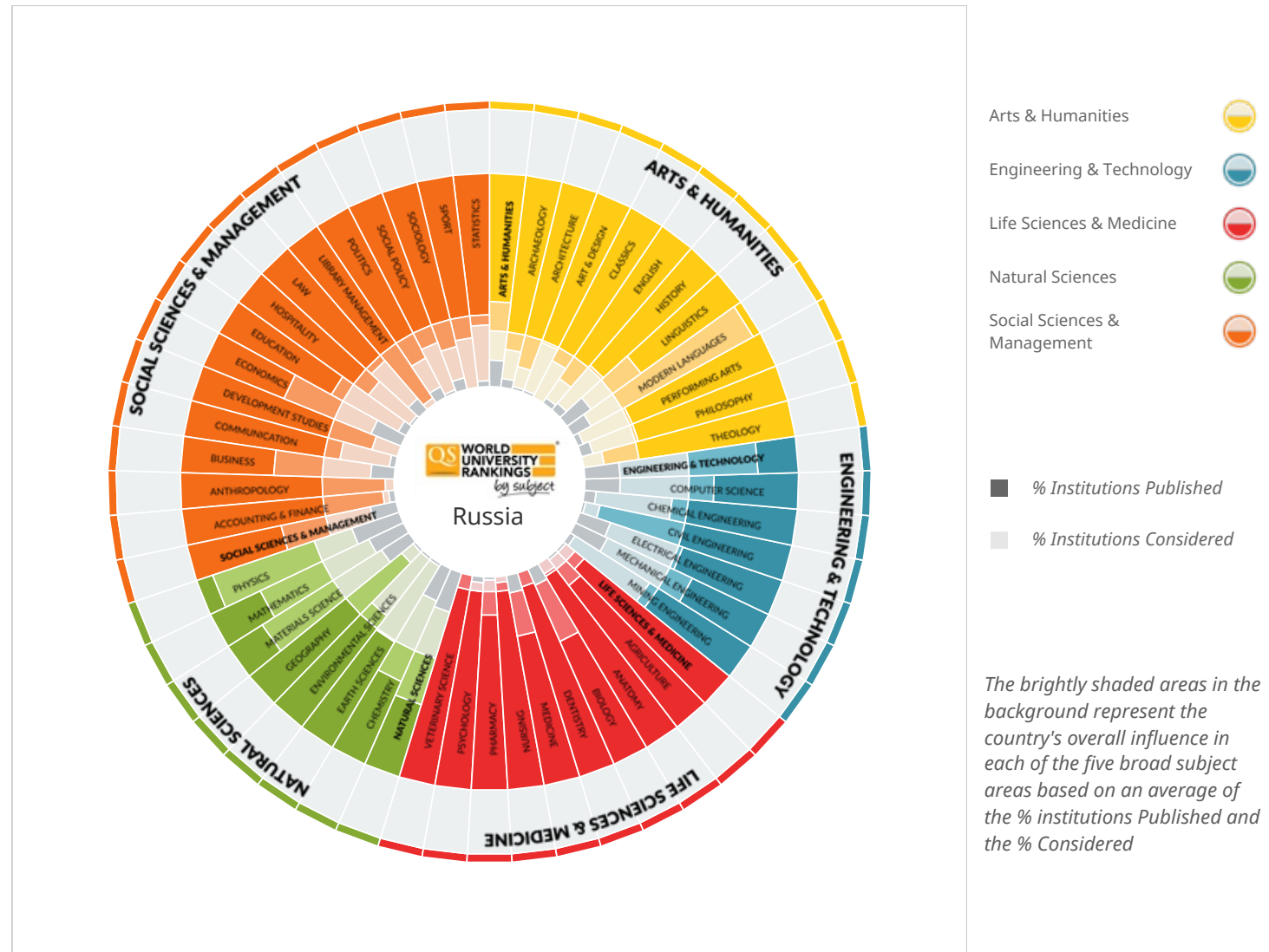**INSTITUTIONS** cited by academics in at least one subject

136

INSTITUTIONS scored in at least one subject

36

INSTITUTIONS in published ranking for at least one subject

38

subject areas featuring at least one institution from Russia

Arts & Humanities

Engineering & Technology

Life Sciences & Medicine

Natural Sciences

Social Sciences & Management

■ *% Institutions Published*

□ *% Institutions Considered*

The brightly shaded areas in the background represent the country's overall influence in each of the five broad subject areas based on an average of the % institutions Published and the % Considered
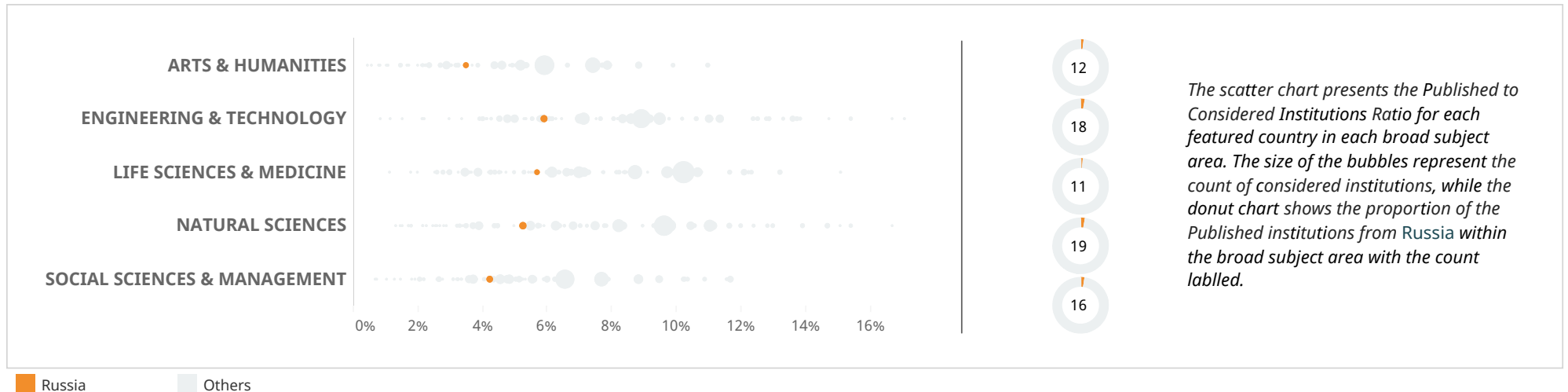
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RUSSIA

Number of Institutions & Average Score by Subject

*The size of bubbles represents the number of institutions published in each subject while the intensity of the blue tone indicates the average score. The subject with the most featured institutions from Russia is **Physics & Astronomy** within each broad subject area.*

54.1 ▭ 73.8

ARTS & HUMANITIES

Linguistics

ENGINEERING & TECHNOLOGY

Mechanical Engineering

Computer Science

LIFE SCIENCES & MEDICINE

Biology

Medicine

NATURAL SCIENCES

Physics

SOCIAL SCIENCES & MANAGEMENT

Economics

Number of Institutions Published

Published to Considered Institutions Ratio by Broad Subject Area

ARTS & HUMANITIES

ENGINEERING & TECHNOLOGY

LIFE SCIENCES & MEDICINE

NATURAL SCIENCES

SOCIAL SCIENCES & MANAGEMENT

0% 2% 4% 6% 8% 10% 12% 14% 16%

12

18

11

19

16

The scatter chart presents the Published to Considered Institutions Ratio for each featured country in each broad subject area. The size of the bubbles represent the count of considered institutions, while the donut chart shows the proportion of the Published institutions from Russia within the broad subject area with the count lablled.

■ Russia   ■ Others

4

Visibility by Subject

The stepped line chart represents the Number of Ranked Institutions in each subject. Subjects are sorted in descending order based on the total number of Ranked institutions.
*The **Top 5** subjects with the most appearance for **Russia** are presented in the table, including % share of the presence in the given subject.*

Subject	Count	%
Physics	17	2.8%
Mathematics	13	2.6%
Computer Science	12	2.0%
Chemistry	12	2.0%
Mechanical Engineering	12	2.4%

RUSSIA

Chart values by subject (left to right):
Biology 6, Chemistry 12, Computer Science 12, Medicine 6, Physics 17, Business 8, Economics 11, Electrical Engineering 11, Mechanical Engineering 12, Mathematics 13, Agriculture 1, Chemical Engineering 4, Environmental Sciences 1, Materials Science 11, Accounting & Finance 2, Education 3, English 2, Law 5, Linguistics 10, Languages 7, Pharmacy 1, Psychology 2, Sociology 4, Archaeology 3, Architecture 1, Art & Design 1, Communication 2, Earth Sciences 1, Civil Engineering 1, Geography 1, History 3, Philosophy 4, Politics 4, Statistics 2, Anatomy 0, Anthropology 0, Development Studies 0, Nursing 0, Performing Arts 2, Social Policy 1, Sport 0, Theology 0, Classics 0, Dentistry 2, Mining Engineering 1, Hospitality 0, Library Management 0, Veterinary Science 0

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Institutions by Rank Range per Subject

The following tables display the number of institutions from Russia featured in each subject within each given range. Please note that subjects may present a different number of featured institutions overall. Shaded cells indicate an unavailable range for the subject in question.

		1-50	51-100	101-150	151-200	201-250	251-300	301-350	351-400	401-450	451-500	501-550	551-600
Arts & Humanities	Arts & Humanities	0	1	1	1	0	1	1	2	2	0		
	Archaeology	0	1	0	2								
	Architecture / Built Environment	0	0	0	1								
	Art & Design	0	0	0	1								
	Classics & Ancient History	0	0										
	English Language & Literature	0	0	1	0	0	1						
	History	0	2	1	0								
	Linguistics	1	1	2	3	2	1						
	Modern Languages	1	0	3	1	1	1						
	Performing Arts	1	1										
	Philosophy	0	1	2	1								
	Theology, Divinity & Religious Studies	0	0										
Engineering & Technology	Engineering & Technology	0	1	0	0	3	4	0	3	1	1		
	Computer Science & Information Systems	0	1	2	2	0	0	3	0	1	1	1	1
	Engineering - Chemical	0	0	0	1	1	0	1	1				
	Engineering - Civil & Structural	0	0	0	1								
	Engineering - Electrical & Electronic	0	0	0	0	1	3	3	0	4	0		
	Engineering - Mechanical, Aeronautical & Manufacturing	0	1	0	1	3	3	1	2	1	0		
	Engineering - Mineral & Mining	2	0										
Life Sciences & Medicine	Life Sciences & Medicine	0	0	0	0	0	1	0	0	0	0		
	Agriculture & Forestry	0	0	0	0	0	1	0	0				
	Anatomy & Physiology	0	0										
	Biological Sciences	0	1	0	0	1	1	0	0	2	0	1	0
	Dentistry	0	0										
	Medicine	0	0	0	0	0	0	1	0	1	3	0	1
	Nursing	0	0										
	Pharmacy & Pharmacology	0	0	1	0	0	0						
	Psychology	0	0	0	1	1	0						
	Veterinary Science	0	0										

2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

		1-50	51-100	101-150	151-200	201-250	251-300	301-350	351-400	401-450	451-500	501-550	551-600
Natural Sciences	Natural Sciences	1	0	2	1	2	1	0	3	3	2		
	Chemistry	0	1	0	0	2	0	0	3	2	3	0	1
	Earth & Marine Sciences	0	0	0	1								
	Environmental Sciences	0	0	0	0	1	0	0	0				
	Geography	0	0	0	1								
	Materials Science	0	0	2	0	0	4	5	0				
	Mathematics	1	1	3	0	1	0	1	4	2	0		
	Physics & Astronomy	1	3	0	1	2	2	3	1	2	1	0	1
Social Sciences & Management	Social Sciences & Management	0	2	0	1	0	0	0	3	3	0		
	Accounting & Finance	0	0	1	0	1	0						
	Anthropology	0	0										
	Business & Management Studies	0	0	1	1	1	1	0	0	2	2		
	Communication & Media Studies	0	0	2	0								
	Development Studies	0	0										
	Economics & Econometrics	0	1	0	1	2	0	1	2	2	2		
	Education	0	0	1	1	1	0						
	Hospitality & Leisure Management	1	0										
	Law	0	1	0	2	0	2						
	Library & Information Management	0	0										
	Politics & International Studies	1	1	2	0								
	Social Policy & Administration	0	1										
	Sociology	0	1	0	1	1	1						
	Sports-related Subjects	0	0										
	Statistics & Operational Research	0	0	1	1								

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.

2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

The tables below present the performance evolution in each evaluated subject.
Area chart represents the **Percent of Total** achieved seats of the given subject within the corresponding broad subject area per rankings year.

Broad area	Subject	2018	2019	2020
Arts & Humanities	Arts & Humanities	8	10	9
	Art & Design		1	1
	History	3	3	3
	Archaeology	3	1	3
	Architecture / Built Environment		1	1
	English Language & Literature	2	1	2
	Linguistics	5	9	10
	Modern Languages	8	9	7
	Performing Arts		1	2
	Philosophy	4	4	4
Engineering & Technology	Engineering & Technology	12	13	12
	Computer Science & Information Systems	10	12	12
	Engineering - Chemical	2	3	4
	Engineering - Civil & Structural			1
	Engineering - Mechanical, Aeronautical & Manufacturi..	8	12	12
	Engineering - Electrical & Electronic	7	11	11
	Engineering - Mineral & Mining	2	2	2
Life Sciences & Medicine	Life Sciences & Medicine		1	1
	Agriculture & Forestry			1
	Biological Sciences	2	3	6
	Medicine	2	4	6
	Pharmacy & Pharmacology	1	1	1
	Psychology	1	2	2

Broad area	Subject	2018	2019	2020
Natural Sciences	Chemistry	8	10	12
	Earth & Marine Sciences	1	1	1
	Environmental Sciences	1	1	1
	Geography	1	1	1
	Materials Science	2	10	11
	Mathematics	9	8	13
	Natural Sciences	10	13	14
	Physics & Astronomy	15	17	17
Social Sciences & Management	Accounting & Finance	1	1	2
	Business & Management Studies	3	7	8
	Communication & Media Studies	1	2	2
	Economics & Econometrics	6	7	11
	Education	3	3	3
	Hospitality & Leisure Management	1		1
	Law	3	4	5
	Politics & International Studies	4	4	4
	Social Policy & Administration			1
	Social Sciences & Management	6	9	9
	Sociology	4	4	4
	Statistics & Operational Research	1	2	2

Top 5 Institutions by Subject | Russia

In the tables below the [number] in square brackets represents the global rank of the institution in the given subject. Whenever there are fewer than five ranked institutions available in the considered country in any subject, we have included the runners up - presented in grey. Usually those institutions beyond the published ranking range owe their position to a limited amount of data (which is the reason why the public rankings tables themselves are truncated). Furthermore, in those cases, whether or not an institution operates degree programs in the subject may not have been verified. Nonetheless it has been found useful in the context of a country report to present this additional information.

At the tail of each rankings table institutions may appear in disciplines they are not active in due to stronger profiles in "neighbouring" subjects. For example, since the All Science Journal Classification (ASJC) system operates at a journal level, an institution strong in Chemistry may be benefitted in Chemical Engineering. Within ranked ranges the existence of qualifying programs is individually and thoroughly verified by a member of the QSIU team - but this is not always practical for the hundreds of entries falling outside the range. At the time of publication of this fact file, the QSIU team has manually verified the operation of over 20,000 programs run by the evaluated institutions.

Arts & Humanities

Arts & Humanities	Archaeology	Architecture / Built Environment
Lomonosov Moscow State University [52]	Lomonosov Moscow State University [51-100]	Lomonosov Moscow State University [151-200]
Saint-Petersburg State University [143]	Novosibirsk State University [151-200]	Saint-Petersburg State University
National Research University - HSE [188]	Ural Federal University [151-200]	Kazan Federal University
Tomsk State University [285]	Saint-Petersburg State University	Novosibirsk State University
Ural Federal University [329]	Tomsk State University	Ural Federal University

Art & Design	Classics & Ancient History	English Language & Literature
National Research University - HSE [151-200]	Lomonosov Moscow State University	Lomonosov Moscow State University [101-150]
Lomonosov Moscow State University	Saint-Petersburg State University	Tomsk State University [251-300]
Saint-Petersburg State University	Russian State University for the Humanities RGGU	Saint-Petersburg State University
Kazan Federal University	Tomsk State University	National Research University - HSE
ITMO University	MGIMO	MGIMO

History	Linguistics	Modern Languages
National Research University - HSE [51-100]	Lomonosov Moscow State University [24]	Lomonosov Moscow State University [34]
Lomonosov Moscow State University [51-100]	Saint-Petersburg State University [51-100]	Saint-Petersburg State University [101-150]
Saint-Petersburg State University [101-150]	National Research University - HSE [101-150]	National Research University - HSE [101-150]
European University at St Petersburg	Tomsk State University [101-150]	RUDN University [101-150]
Ural Federal University	Moscow State Linguistic University [151-200]	Tomsk State University [151-200]

Performing Arts	Philosophy	Theology, Divinity & Religious Studies
Moscow P. I. Tchaikovsky Conservatory [44]	Lomonosov Moscow State University [51-100]	Lomonosov Moscow State University
Rimsky-Korsakov St. Petersburg State Conservatory [51-100]	National Research University - HSE [101-150]	Russian State University for the Humanities RGGU
Lomonosov Moscow State University	Ural Federal University [101-150]	RUDN University
Russian State University for the Humanities RGGU	Saint-Petersburg State University [151-200]	Saint-Petersburg State University
Saint-Petersburg State University	Novosibirsk State University	National Research University - HSE

Top 5 Institutions by Subject | Russia

Engineering & Technology

Engineering & Technology	Computer Science & Information Systems	Engineering - Chemical
Lomonosov Moscow State University [76]	Lomonosov Moscow State University [51-100]	Novosibirsk State University [151-200]
Novosibirsk State University [241]	ITMO University [101-150]	Tomsk Polytechnic University [201-250]
Saint-Petersburg State University [244]	Saint-Petersburg State University [101-150]	Tomsk State University [301-350]
Peter the Great St.Petersburg Polytechnic University [250]	National Research University - HSE [151-200]	Kazan Federal University [351-400]
Moscow Institute of Physics and Technology State University [270]	Moscow Institute of Physics and Technology State University [151-200]	Lomonosov Moscow State University

Engineering - Civil & Structural	Engineering - Electrical & Electronic	Engineering - Mechanical, Aeronautical & MNF.
Peter the Great St.Petersburg Polytechnic University [151-200]	ITMO University [201-250]	Lomonosov Moscow State University [51-100]
Lomonosov Moscow State University	Moscow Institute of Physics and Technology State University [251-300]	Bauman Moscow State Technical University [151-200]
Bauman Moscow State Technical University	Novosibirsk State University [251-300]	Peter the Great St.Petersburg Polytechnic University [201-250]
Novosibirsk State University	Bauman Moscow State Technical University [251-300]	National University of Science and Technology "MISIS" [201-250]
Saint-Petersburg State University	Peter the Great St.Petersburg Polytechnic University [301-350]	Moscow Institute of Physics and Technology State University [201-250]

Engineering - Mineral & Mining		
St.Petersburg Mining University [18]		
National University of Science and Technology "MISIS" [46]		
Lomonosov Moscow State University		
Kazan Federal University		
Novosibirsk State University		

Life Sciences & Medicine

Life Sciences & Medicine	Agriculture & Forestry	Anatomy & Physiology
Lomonosov Moscow State University [277]	Russian State Agrarian University - RSAU-MTAA [251-300]	Lomonosov Moscow State University
Saint-Petersburg State University	Lomonosov Moscow State University	First Moscow State Medical University
Novosibirsk State University	Saint-Petersburg State University	Novosibirsk State University
First Moscow State Medical University	Kazan Federal University	Saint-Petersburg State University
Tomsk State University	Bauman Moscow State Technical University	Pirogov Russian National Research Medical University (RNRMU)

Biological Sciences	Dentistry	Medicine
Lomonosov Moscow State University [51-100]	Saint-Petersburg State University	Lomonosov Moscow State University [301-350]
Saint-Petersburg State University [201-250]	First Moscow State Medical University	Saint-Petersburg State University [401-450]
Novosibirsk State University [251-300]	Novosibirsk State University	Pirogov Russian National Research Medical University (RNRMU) [451-500]
Moscow Institute of Physics and Technology State University [401-450]	Tomsk Polytechnic University	First Moscow State Medical University [451-500]
Kazan Federal University [401-450]	Lomonosov Moscow State University	Saint-Petersburg Pavlov State Medical University [451-500]

Nursing	Pharmacy & Pharmacology	Psychology
Lomonosov Moscow State University	Lomonosov Moscow State University [101-150]	National Research University - HSE [151-200]
Kazan Federal University	Saint-Petersburg State University	Lomonosov Moscow State University [201-250]
European University at St Petersburg	First Moscow State Medical University	Saint-Petersburg State University
Saint-Petersburg State University	Novosibirsk State University	Tomsk State University
First Moscow State Medical University	Tomsk State University	Kazan Federal University

Veterinary Science		
Lomonosov Moscow State University		
Saint-Petersburg State University		
Russian State Agrarian University - RSAU-MTAA		
Novosibirsk State University		
Saint-Petersburg Pavlov State Medical University		

Top 5 Institutions by Subject | Russia

Natural Sciences

Natural Sciences	Chemistry	Earth & Marine Sciences
Lomonosov Moscow State University [39]	Lomonosov Moscow State University [51-100]	Lomonosov Moscow State University [151-200]
Novosibirsk State University [107]	Novosibirsk State University [201-250]	Tomsk State University
Moscow Institute of Physics and Technology State University [125]	Saint-Petersburg State University [201-250]	Novosibirsk State University
Saint-Petersburg State University [176]	Tomsk Polytechnic University [351-400]	Saint-Petersburg State University
National Research Nuclear University "MEPhI" [249]	Moscow Institute of Physics and Technology State University [351-400]	Bauman Moscow State Technical University

Environmental Sciences	Geography	Materials Science
Lomonosov Moscow State University [201-250]	Lomonosov Moscow State University [151-200]	National University of Science and Technology "MISIS" [101-150]
Saint-Petersburg State University	Saint-Petersburg State University	Lomonosov Moscow State University [101-150]
Bauman Moscow State Technical University	National Research University - HSE	Moscow Institute of Physics and Technology State University [251-300]
National Research University - HSE	European University at St Petersburg	ITMO University [251-300]
Novosibirsk State University	Tomsk State University	Saint-Petersburg State University [251-300]

Mathematics	Physics & Astronomy	
Lomonosov Moscow State University [43]	Lomonosov Moscow State University [33]	
Saint-Petersburg State University [51-100]	Moscow Institute of Physics and Technology State University [51-100]	
National Research University - HSE [101-150]	Novosibirsk State University [51-100]	
Moscow Institute of Physics and Technology State University [101-150]	National Research Nuclear University "MEPhI" [51-100]	
Novosibirsk State University [101-150]	Saint-Petersburg State University [151-200]	

Social Sciences & Management

Social Sciences & Management

Lomonosov Moscow State University [73]

National Research University - HSE [98]

Saint-Petersburg State University [185]

Plekhanov Russian University of Economics [353]

Tomsk State University [381]

Accounting & Finance

National Research University - HSE [101-150]

Lomonosov Moscow State University [201-250]

Financial University under the Government of the Russian

Saint-Petersburg State University

Plekhanov Russian University of Economics

Anthropology

Lomonosov Moscow State University

European University at St Petersburg

Tomsk State University

National Research University - HSE

Ural Federal University

Business & Management Studies

National Research University - HSE [101-150]

Lomonosov Moscow State University [151-200]

Saint-Petersburg State University [201-250]

Plekhanov Russian University of Economics [251-300]

Financial University under the Government of the Russian

Communication & Media Studies

Lomonosov Moscow State University [101-150]

National Research University - HSE [101-150]

Saint-Petersburg State University

Ural Federal University

RUDN University

Development Studies

Lomonosov Moscow State University

National Research University - HSE

The Russian Presidential Academy of National Economy a

MGIMO

Saint-Petersburg State University

Economics & Econometrics

National Research University - HSE [51-100]

Lomonosov Moscow State University [151-200]

Plekhanov Russian University of Economics [201-250]

New Economic School, Russia [201-250]

Saint-Petersburg State University [301-350]

Education

National Research University - HSE [101-150]

Lomonosov Moscow State University [151-200]

Kazan Federal University [201-250]

Saint-Petersburg State University

Bauman Moscow State Technical University

Hospitality & Leisure Management

Lomonosov Moscow State University [45]

Plekhanov Russian University of Economics

National Research University - HSE

Saint-Petersburg State University

Russian State Agrarian University - RSAU-MTAA

Law

Lomonosov Moscow State University [51-100]

National Research University - HSE [151-200]

Saint-Petersburg State University [151-200]

Kutafin Moscow State Law University [251-300]

MGIMO [251-300]

Library & Information Management

Lomonosov Moscow State University

National Research University - HSE

Peter the Great St.Petersburg Polytechnic University

Tomsk State University

Russian State University for the Humanities RGGU

Politics & International Studies

National Research University - HSE [48]

MGIMO [51-100]

Lomonosov Moscow State University [101-150]

Saint-Petersburg State University [101-150]

European University at St Petersburg

Social Policy & Administration

National Research University - HSE [51-100]

Lomonosov Moscow State University

Ural Federal University

Saint-Petersburg State University

MGIMO

Sociology

National Research University - HSE [51-100]

Lomonosov Moscow State University [151-200]

Saint-Petersburg State University [201-250]

European University at St Petersburg [251-300]

Tomsk State University

Sports-related Subjects

Lomonosov Moscow State University

Kazan Federal University

Financial University under the Government of the Russian

Ural Federal University

Saint-Petersburg State University

Statistics & Operational Research

Lomonosov Moscow State University [101-150]

National Research University - HSE [151-200]

Novosibirsk State University

Moscow Institute of Physics and Technology State Univer

Saint-Petersburg State University

APPENDICES

DEFINITIONS,
WEIGHTINGS, THRESHOLDS
AND HEADLINE FIGURES.

METHODOLOGY: DEFINITIONS & WEIGHTINGS

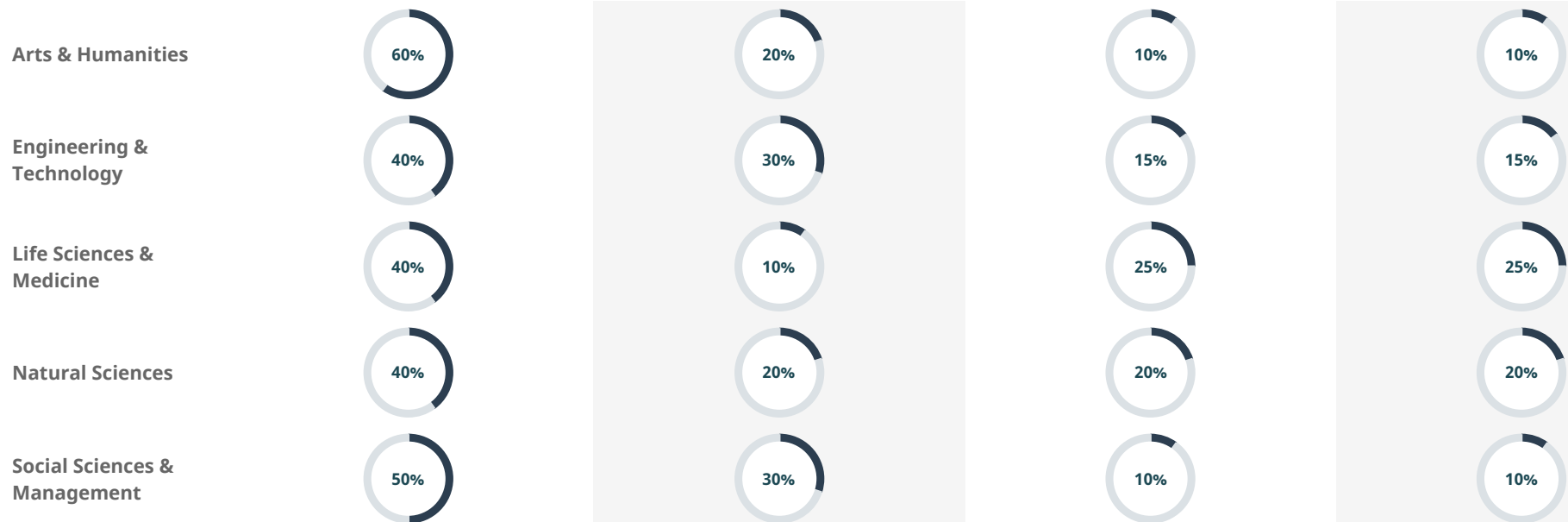|	ACADEMIC REPUTATION	EMPLOYER REPUTATION	CITATION	H-INDEX
	Between 2015 and 2019 QS has collected votes from over 94,000 academics around the world. Each academic counted has given their opinion on universities in their fields of expertises.	The employability metric is based on employer reputation. 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.	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.	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.
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%

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.

ARTS & HUMANITIES · **ENGINEERING & TECHNOLOGY** · **LIFE SCIENCES & MEDICINE** · **NATURAL SCIENCES** · **SOCIAL SCIENCES & MANAGEMENT**

Legend:
- ■ Academic Reputation
- ■ Employer Reputation
- ■ Citations per Paper
- ■ H-index
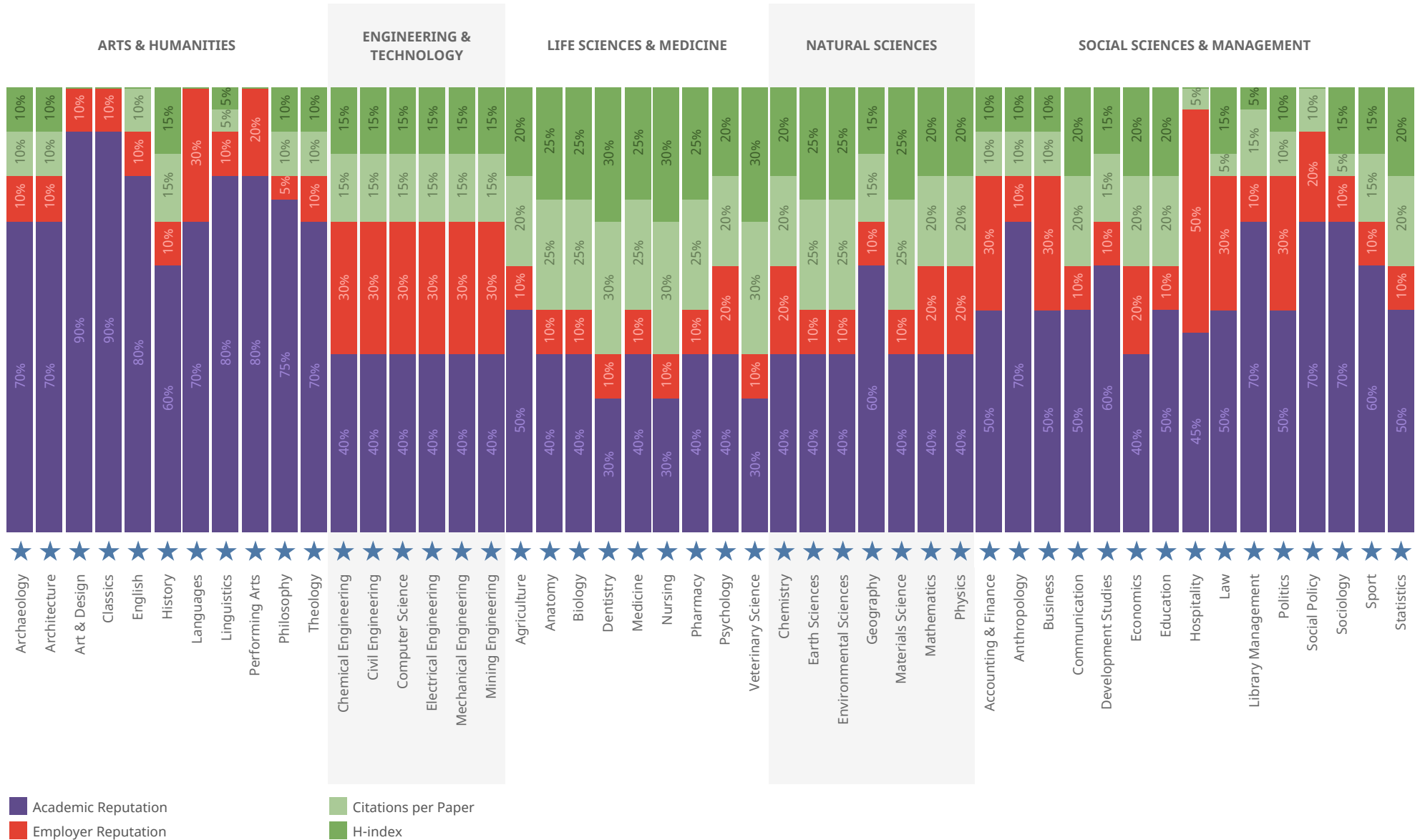
2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

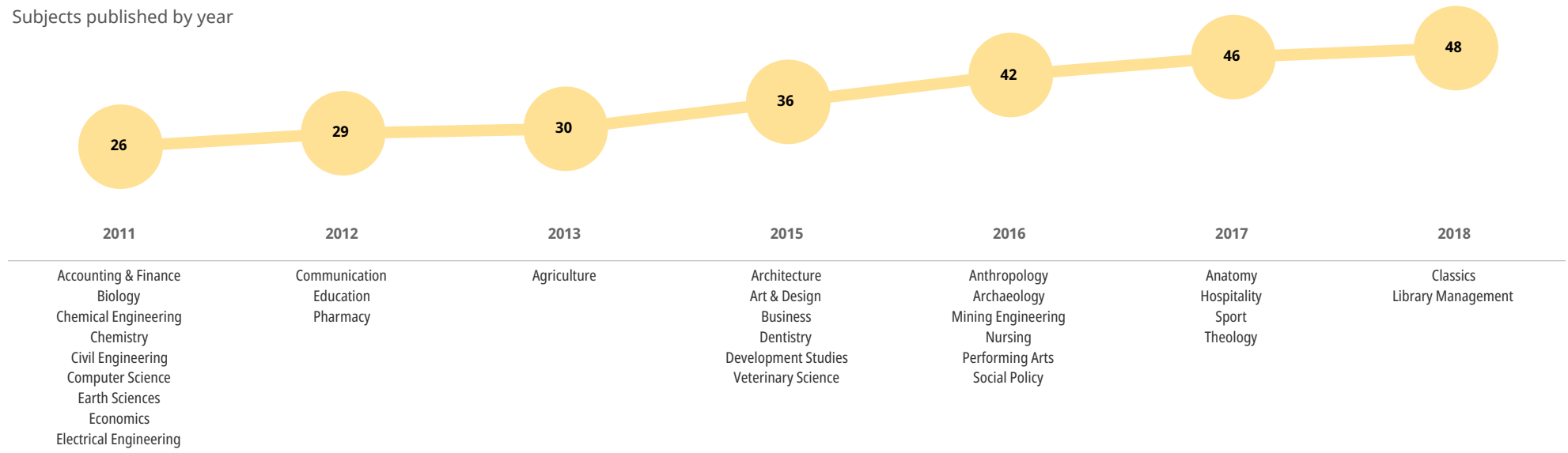The QS World University Rankings® by Subject ranks the world's top universities in individual subject areas, covering 48 disciplines as of 2020. A list of the considered subjects, grouped by the year of first release, is presented below.

Subjects published by year

2011	2012	2013	2015	2016	2017	2018
26	29	30	36	42	46	48

2011	2012	2013	2015	2016	2017	2018
Accounting & Finance	Communication	Agriculture	Architecture	Anthropology	Anatomy	Classics
Biology	Education		Art & Design	Archaeology	Hospitality	Library Management
Chemical Engineering	Pharmacy		Business	Mining Engineering	Sport	
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

© 2020 Mapbox © OpenStreetMap

Number of Institutions Published

- • 1
- 50
- 100
- 150
- 210

TOP 10 LOCATIONS BY NUMBER OF INSTITUTIONS CONSIDERED

Location	Number
United States	441
France	191
United Kingdom	173
India	165
Russia	163
Germany	138
China	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**	**1,368**
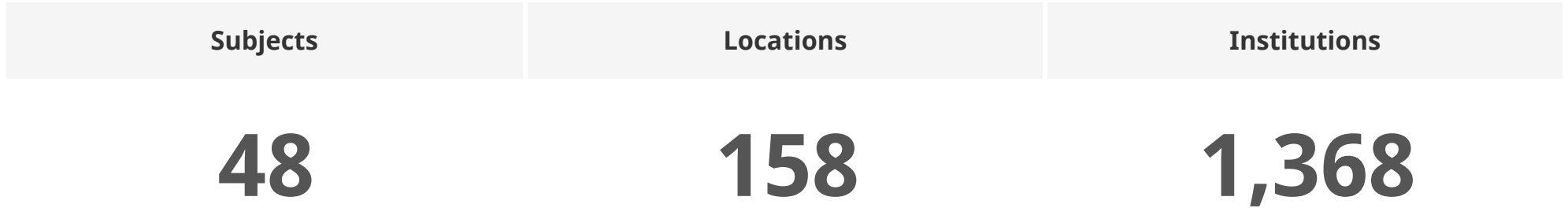
INSTITUTIONS CONSIDERED AND PUBLISHED BY SUBJECT - YEAR 2020

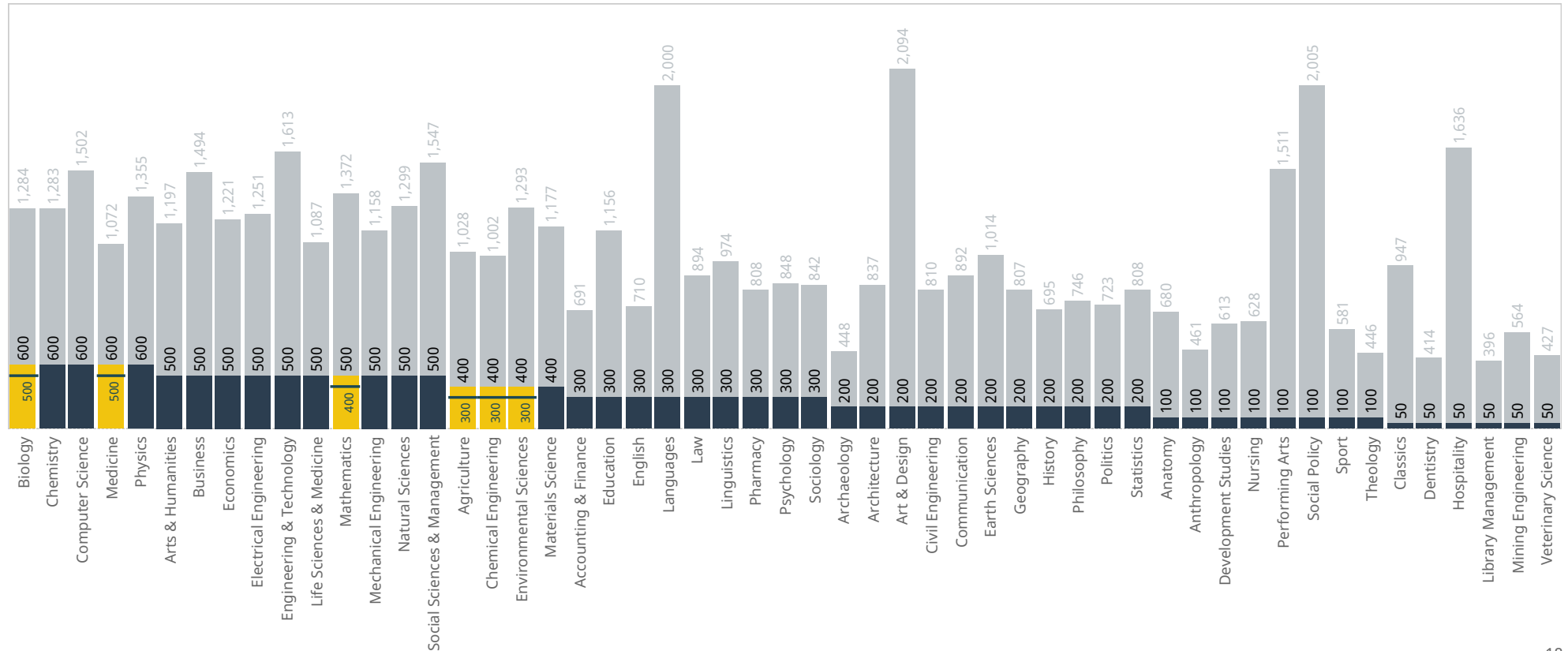Subjects with highlight color have extended publishing ranges.

Subject	Considered	Published
Biology	1,284	600
Chemistry	1,283	600
Computer Science	1,502	600
Medicine	1,072	600
Physics	1,355	600
Arts & Humanities	1,197	500
Business	1,494	500
Economics	1,221	500
Electrical Engineering	1,251	500
Engineering & Technology	1,613	500
Life Sciences & Medicine	1,087	500
Mathematics	1,372	500
Mechanical Engineering	1,158	500
Natural Sciences	1,299	500
Social Sciences & Management	1,547	500
Agriculture	1,028	400
Chemical Engineering	1,002	400
Environmental Sciences	1,293	400
Materials Science	1,177	400
Accounting & Finance	691	300
Education	1,156	300
English	710	300
Languages	2,000	300
Law	894	300
Linguistics	974	300
Pharmacy	808	300
Psychology	848	300
Sociology	842	300
Archaeology	448	200
Architecture	837	200
Art & Design	2,094	200
Civil Engineering	810	200
Communication	892	200
Earth Sciences	1,014	200
Geography	807	200
History	695	200
Philosophy	746	200
Politics	723	200
Statistics	808	200
Anatomy	680	100
Anthropology	461	100
Development Studies	613	100
Nursing	628	100
Performing Arts	1,511	100
Social Policy	2,005	100
Sport	581	100
Theology	446	100
Classics	947	50
Dentistry	414	50
Hospitality	1,636	50
Library Management	396	50
Mining Engineering	564	50
Veterinary Science	427	50

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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
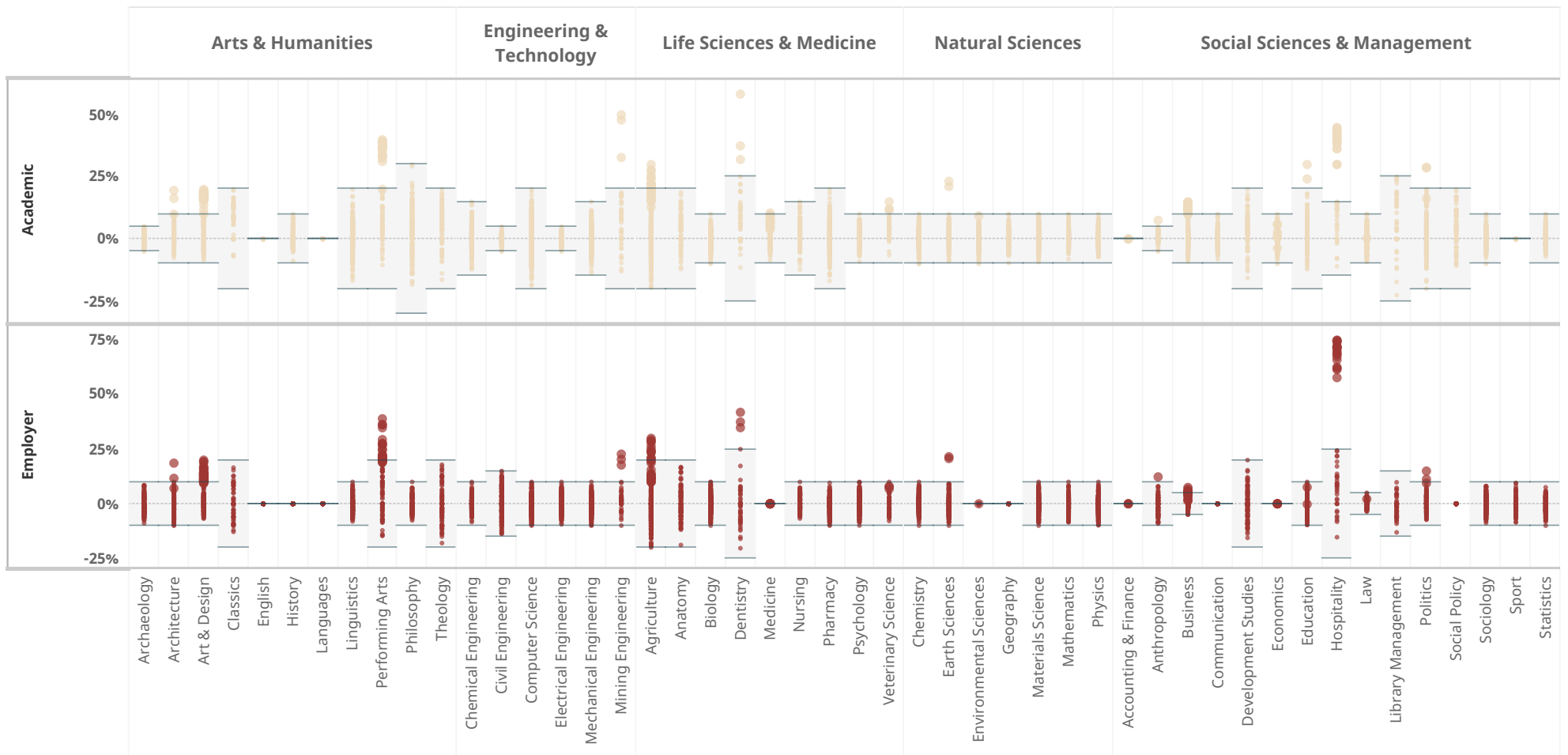
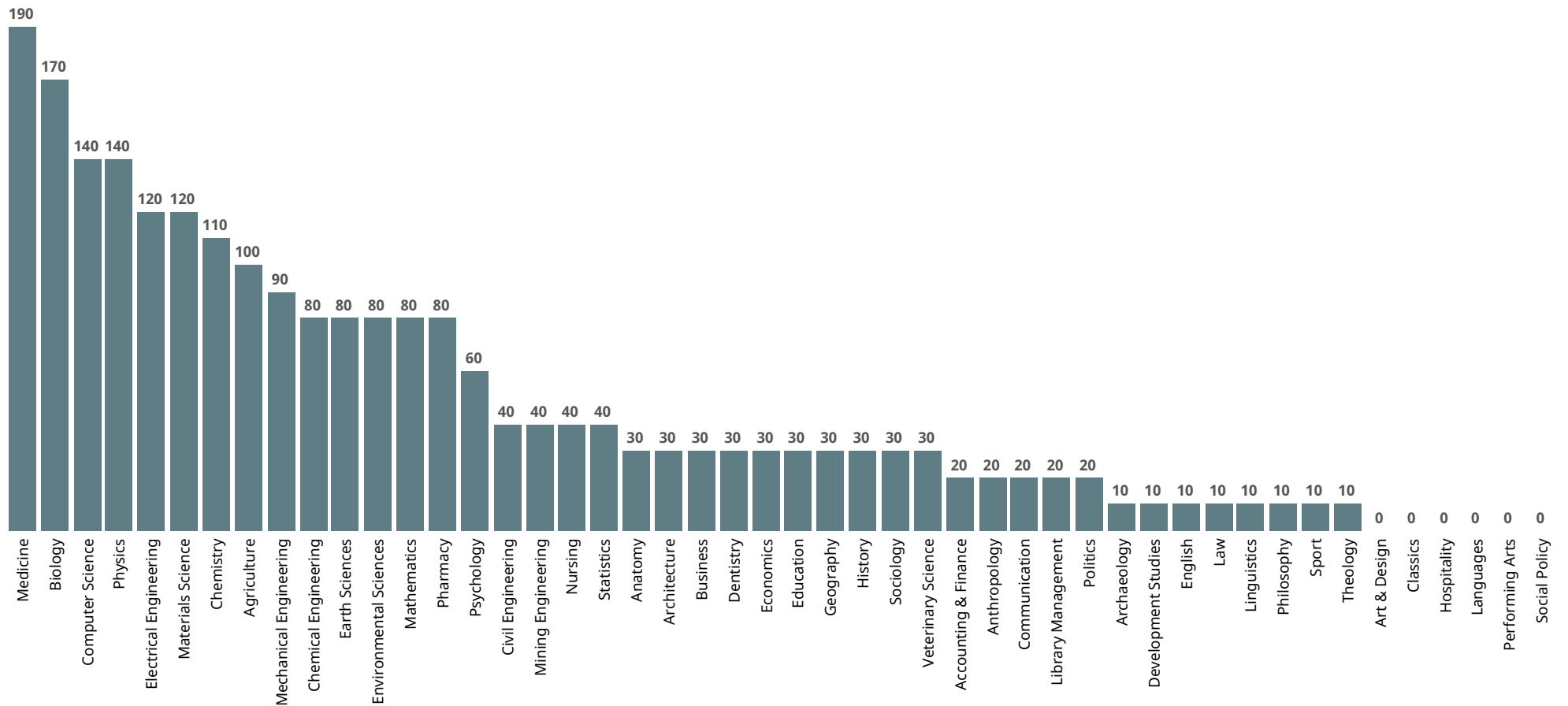# 2020 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

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.

Subject	Threshold
Medicine	190
Biology	170
Computer Science	140
Physics	140
Electrical Engineering	120
Materials Science	120
Chemistry	110
Agriculture	100
Mechanical Engineering	90
Chemical Engineering	80
Earth Sciences	80
Environmental Sciences	80
Mathematics	80
Pharmacy	80
Psychology	60
Civil Engineering	40
Mining Engineering	40
Nursing	40
Statistics	40
Anatomy	30
Architecture	30
Business	30
Dentistry	30
Economics	30
Education	30
Geography	30
History	30
Sociology	30
Veterinary Science	30
Accounting & Finance	20
Anthropology	20
Communication	20
Library Management	20
Politics	20
Archaeology	10
Development Studies	10
English	10
Law	10
Linguistics	10
Philosophy	10
Sport	10
Theology	10
Art & Design	0
Classics	0
Hospitality	0
Languages	0
Performing Arts	0
Social Policy	0