QS **WORLD UNIVERSITY RANKINGS**®

2018

by subject

FACT FILE
SUMMARY
VERSION

NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS
GREECE

Version 1.2

CONTENTS

**THE 2018 QS WORLD UNIVERSITY RANKINGS BY SUBJECT
WILL BE LAUNCHED ON THE 28 FEBRUARY 2018
www.topuniversities.com**

WELCOME 2018 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

Welcome to your institution's summary fact file for the QS World University Rankings by Subject 2018.

This file provides the ranks and scores for your institution in the subjects that you have been ranked in. 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. 1,130 institutions have been ranked across 48 subjects in 5 subject areas, creating 14,000 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.

There is also an Appendix explaining the evolution of the subject rankings, 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 go to www.iu.qs.com/extendedfactfile to file a request and the team will aim to get back to you within a couple of days depending on the volume of requests.

Ben Sowter
Director, QS Intelligence Unit

EduData Summit @ MIT

Boston, USA
June 18th -19th

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Opportunities and Challenges

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QS WORLD UNIVERSITY RANKINGS®

*Book now and get a personalized one-on-one session with our Rankings Analysts. This session will provide you with all the insights on your current rankings, and will give you comprehensive and practical advice on understanding what the rankings data is telling us.

QS Rankings Summit

Taking place on the **20th June**, this is a unique one-day workshop in which industry experts will provide insights on how to maximize an institution´s potential measured by the QS methodologies used to create the QS World University Rankings and the QS World Rankings by Subject.

For more information visit:
www.edudatasummit.com

NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS AT A GLANCE

RANKED IN **5** BROAD
SUBJECT AREAS

SCORED IN **35** SUBJECTS

RANKED IN **11** SUBJECTS

Arts & Humanities

Engineering & Technology

Life Sciences & Medicine

Natural Sciences

Social Sciences & Management
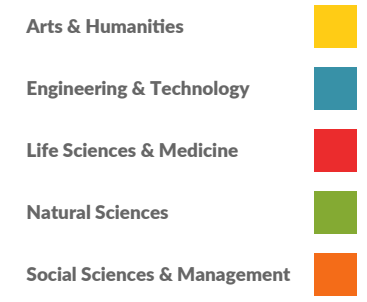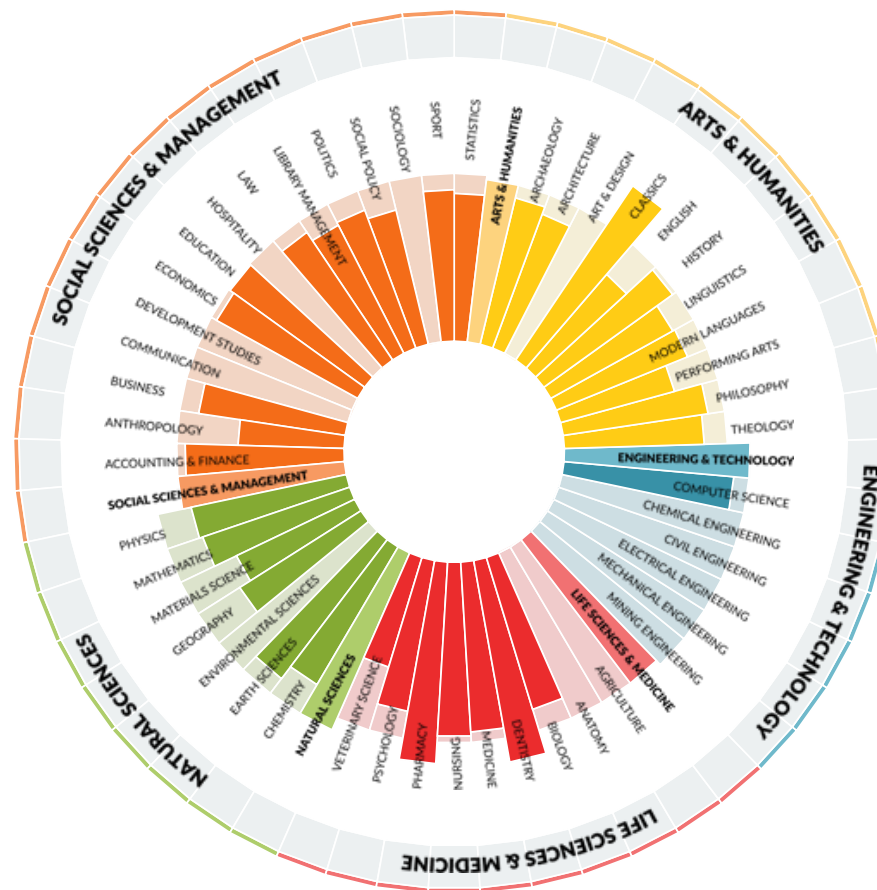
Lightly shaded areas indicate performance in the corresponding <u>broad</u> subject area

NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS
Greece

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

In 2018, National and Kapodistrian University of Athens has been ranked in 5 out of 5 broad subject areas.

Arts & Humanities	Engineering & Technology	Life Sciences & Medicine	Natural Sciences	Social Sciences & Management
392=	355=	241=	302=	360=

OVERALL SCORES BY SUBJECT AREA

Subject	Score
Arts & Humanities	57.7
Engineering & Technology	65.7
Life Sciences & Medicine	63.7
Natural Sciences	68.2
Social Sciences & Management	59.2
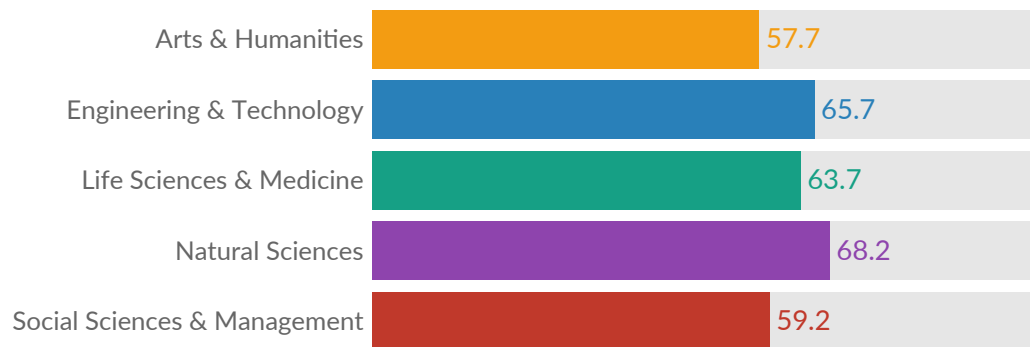
Life Sciences & Medicine is the institution's strongest field at 241= and an overall score of 63.7.

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Below is the institution's detailed performance by indicator and overall 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.

	Subject	Overall Score	Academic	Employer	Citations	H	RANK
Arts & Humanities	Arts & Humanities	57.7	56.5	59.2	78.5	40.8	392=
	Archaeology	53.1	50.2	67.1	59.0	53.3	151-200
	Architecture / Built Environment	50.4	37.9	70.8	85.3	83.0	
	Art & Design						
	English Language & Literature	43.6	42.9	57.1	35.4	45.5	151-200
	History	56.1	53.6	54.5	66.5	56.6	
	Linguistics	49.3	44.9	65.6	71.6	64.8	
	Modern Languages	50.1	46.9	57.7			
	Performing Arts	41.8	37.8	77.7	57.8	47.1	
	Philosophy	51.8	47.0	56.0	72.6	64.8	
	Theology, Divinity & Religious Studies	49.5	50.1	64.8	35.6	43.6	
Engineering & Technology	Engineering & Technology	65.7	58.8	65.3	77.4	73.5	355=
	Computer Science & Information Systems	60.3	43.9	66.8	83.4	67.6	251-300
	Engineering - Chemical						
	Engineering - Civil & Structural						
	Engineering - Electrical & Electronic						
	Engineering - Mechanical, Aeronautical & Manuf.						
Life Sciences & Medicine	Life Sciences & Medicine	63.7	55.9	66.1	73.7	65.3	241=
	Agriculture & Forestry						
	Biological Sciences	56.0	45.2	55.6	70.6	58.9	301-350
	Dentistry	72.2	47.3	67.9	89.5	81.3	
	Medicine	60.0	39.2	61.1	80.4	72.4	251-300
	Nursing	61.4	13.9	58.0	87.5	83.9	
	Pharmacy & Pharmacology	71.2	57.7	63.4	85.9	81.2	101-150
	Psychology	54.0	42.7	66.3	65.5	52.8	
	Veterinary Science	40.4	37.5	54.1	44.4	34.8	

		Overall Score	Academic	Employer	Citations	H	RANK
Natural Sciences	Natural Sciences	68.2	60.3	61.5	73.6	85.4	**302=**
	Chemistry	56.4	44.6	63.4	71.3	58.0	**351-400**
	Earth & Marine Sciences	61.7	45.3	46.9	82.1	73.6	
	Environmental Sciences						
	Geography	50.7	45.4	53.0	62.0	58.9	
	Materials Science	46.3	40.1	38.5	62.4	43.4	
	Mathematics	54.9	45.1	55.3	73.3	55.8	
	Physics & Astronomy	56.1	33.8	45.4	82.0	85.3	**401-450**
Social Sciences & Management	Social Sciences & Management	59.2	51.1	67.8	74.8	58.3	**360=**
	Accounting & Finance	56.2	48.4	64.5	68.2	57.8	
	Anthropology	37.5	36.7	62.0	32.7	23.3	
	Business & Management Studies	52.4	40.6	62.3	71.2	63.3	
	Communication & Media Studies						
	Economics & Econometrics	57.0	46.6	64.2	70.1	57.4	**301-350**
	Education	58.6	50.1	56.1	75.1	64.6	**251-300**
	Law	54.3	51.4	60.8	69.8	45.6	**251-300**
	Library & Information Management	50.8	46.5	71.4	54.1	59.0	
	Politics & International Studies	51.9	44.0	61.6	57.7	56.4	
	Social Policy & Administration	48.7	43.0	67.3	51.0	36.1	
	Sociology						
	Sports-related Subjects	53.4	42.7	54.4	77.4	71.6	
	Statistics & Operational Research	52.1	41.6	69.3	62.0	59.9	

NOTES:
There are a 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.

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

		2018	2017	2016
Arts & Humanities	Arts & Humanities	392=	381=	
	Archaeology	151-200	151-200	
	Architecture / Built Environment			
	Art & Design			
	English Language & Literature			
	History	151-200	151-200	
	Linguistics		251-300	
	Modern Languages			
	Performing Arts			
	Philosophy			
	Theology, Divinity & Religious Studies			
Engineering & Technology	Engineering & Technology	355=	335=	
	Computer Science & Information Systems	251-300	201-250	201-250
	Engineering - Chemical			
	Engineering - Civil & Structural			
	Engineering - Electrical & Electronic			
	Engineering - Mechanical, Aeronautical & Manuf.			
	Engineering - Mineral & Mining			
Life Sciences & Medicine	Life Sciences & Medicine	241=	248=	
	Agriculture & Forestry			
	Biological Sciences	301-350	301-350	301-400
	Dentistry			
	Medicine	251-300	201-250	201-250
	Nursing			
	Pharmacy & Pharmacology	101-150	151-200	151-200
	Psychology			
	Veterinary Science			

		2018	2017	2016
Natural Sciences	Natural Sciences	302=	288=	
	Chemistry	351-400	351-400	
	Earth & Marine Sciences			
	Environmental Sciences			
	Geography			
	Materials Science			
	Mathematics			301-400
	Physics & Astronomy	401-450	351-400	301-400
Social Sciences & Management	Social Sciences & Management	360=	387=	
	Accounting & Finance			
	Anthropology			
	Business & Management Studies			
	Communication & Media Studies			
	Economics & Econometrics	301-350	351-400	
	Education	251-300		
	Law	251-300	251-300	
	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 2013 and 2017 QS has collected votes from over 170,000 academics in 60 countries 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. 158,000 global employer votes have been taken into account between 2012 and 2017 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%

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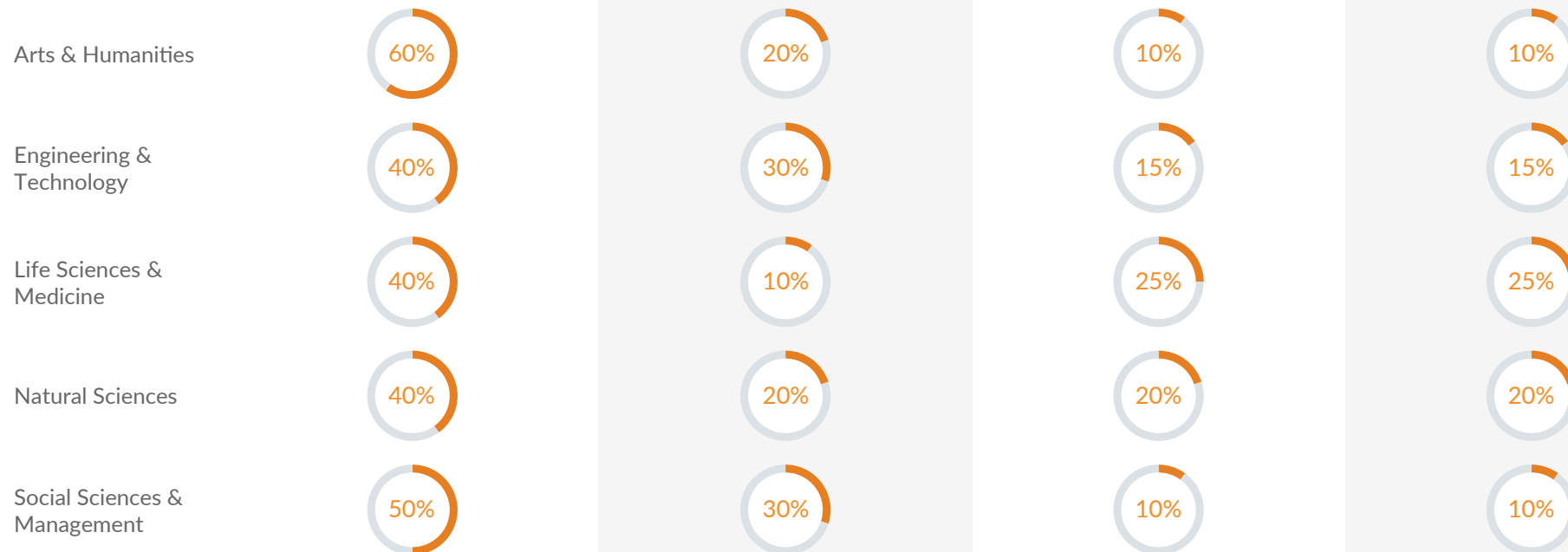
2018 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

We use a variable approach to the weightings for the different subjects. The chart below provides details of the combinations used in the 2018 edition of the rankings.

	Academic Reputation	Employer Reputation	Citation per Paper	H-index
ARTS & HUMANITIES				
Archaeology	70%	10%	10%	10%
Architecture	70%	10%	10%	10%
Art & Design	90%			10%
Classics	90%			10%
English	80%	10%		10%
History	60%	10%	15%	15%
Languages	70%	30%		
Linguistics	80%	10%	5%	5%
Performing Arts	90%			10%
Philosophy	75%	5%	10%	10%
Theology	70%	10%	10%	10%
ENGINEERING & TECHNOLOGY				
Chemical Engineering	40%	30%	15%	15%
Civil Engineering	40%	30%	15%	15%
Computer Science	40%	30%	15%	15%
Electrical Engineering	40%	30%	15%	15%
Mechanical Engineering	40%	30%	15%	15%
Mining Engineering	50%	20%	15%	15%
LIFE SCIENCES & MEDICINE				
Agriculture	50%	10%	20%	20%
Anatomy	40%	10%	25%	25%
Biology	40%	10%	25%	25%
Dentistry	30%	10%	30%	30%
Medicine	40%	10%	25%	25%
Nursing	30%	10%	30%	30%
Pharmacy	40%	10%	25%	25%
Psychology	40%	20%	20%	20%
Veterinary Science	30%	10%	30%	30%
NATURAL SCIENCES				
Chemistry	40%	20%	20%	20%
Earth Sciences	40%	10%	25%	25%
Environmental Sciences	40%	10%	25%	25%
Geography	60%	10%	15%	15%
Materials Science	40%	10%	25%	25%
Mathematics	40%	20%	20%	20%
Physics	40%	20%	20%	20%
SOCIAL SCIENCES & MANAGEMENT				
Accounting & Finance	50%	30%	10%	10%
Anthropology	70%	10%	10%	10%
Business	50%	30%	10%	10%
Communication	50%	10%	20%	20%
Development Studies	60%	10%	15%	15%
Economics	40%	20%	20%	20%
Education	50%	10%	20%	20%
Hospitality	80%	15%		5%
Law	50%	30%	5%	15%
Library Management	70%	10%	15%	5%
Politics	50%	30%	10%	10%
Social Policy	70%	20%		10%
Sociology	70%	10%	5%	15%
Sport	60%	10%	15%	15%
Statistics	50%	10%	20%	20%

Legend:
- Academic Reputation
- Employer Reputation
- Citation per Paper
- H-index

2018 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 2018. A list of the considered subjects, grouped by the year of first release, is presented below.

Subjects published by year
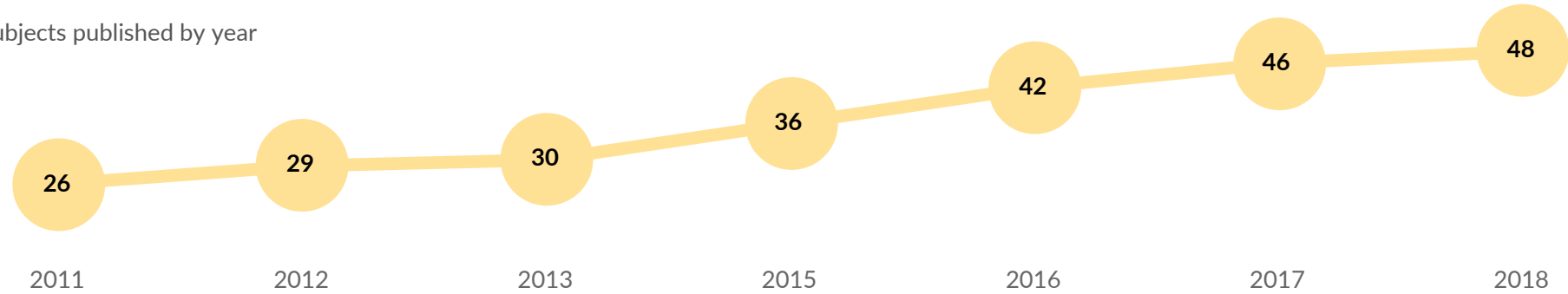
2011	2012	2013	2015	2016	2017	2018
26	29	30	36	42	46	48

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						

CONSIDERED INSTITUTIONS BY COUNTRY

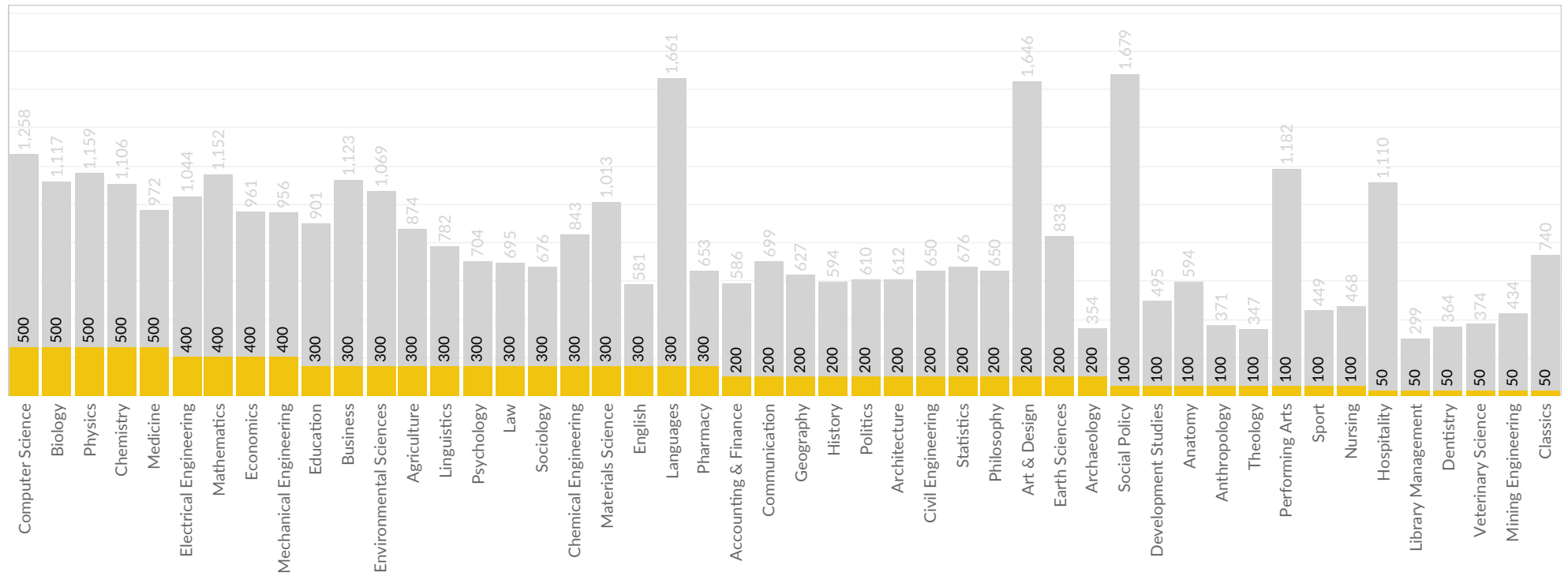|	
·	1
●	50
●	100
●	150
●	184

TOP 10 COUNTRIES BY NUMBER OF INSTITUTIONS CONSIDERED

184 United States

95 United Kingdom

74 China

59 France

56 Germany

43 Italy

42 Japan

34 Australia

33 South Korea

27 Brazil

27 Canada

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

| Subjects	Countries	Institutions
48	151	1130

INSTITUTIONS CONSIDERED AND PUBLISHED BY SUBJECT - YEAR 2018

Subject	Considered	Published
Computer Science	1,258	500
Biology	1,117	500
Physics	1,159	500
Chemistry	1,106	500
Medicine	972	500
Electrical Engineering	1,044	400
Mathematics	1,152	400
Economics	961	400
Mechanical Engineering	956	400
Education	901	300
Business	1,123	300
Environmental Sciences	1,069	300
Agriculture	874	300
Linguistics	782	300
Psychology	704	300
Law	695	300
Sociology	676	300
Chemical Engineering	843	300
Materials Science	1,013	300
English	581	300
Languages	1,661	300
Pharmacy	653	300
Accounting & Finance	586	200
Communication	699	200
Geography	627	200
History	594	200
Politics	610	200
Architecture	612	200
Civil Engineering	650	200
Statistics	676	200
Philosophy	650	200
Art & Design	1,646	200
Earth Sciences	833	200
Archaeology	354	200
Social Policy	1,679	100
Development Studies	495	100
Anatomy	594	100
Anthropology	371	100
Theology	347	100
Performing Arts	1,182	100
Sport	449	100
Nursing	468	100
Hospitality	1,110	50
Library Management	299	50
Dentistry	364	50
Veterinary Science	374	50
Mining Engineering	434	50
Classics	740	50

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
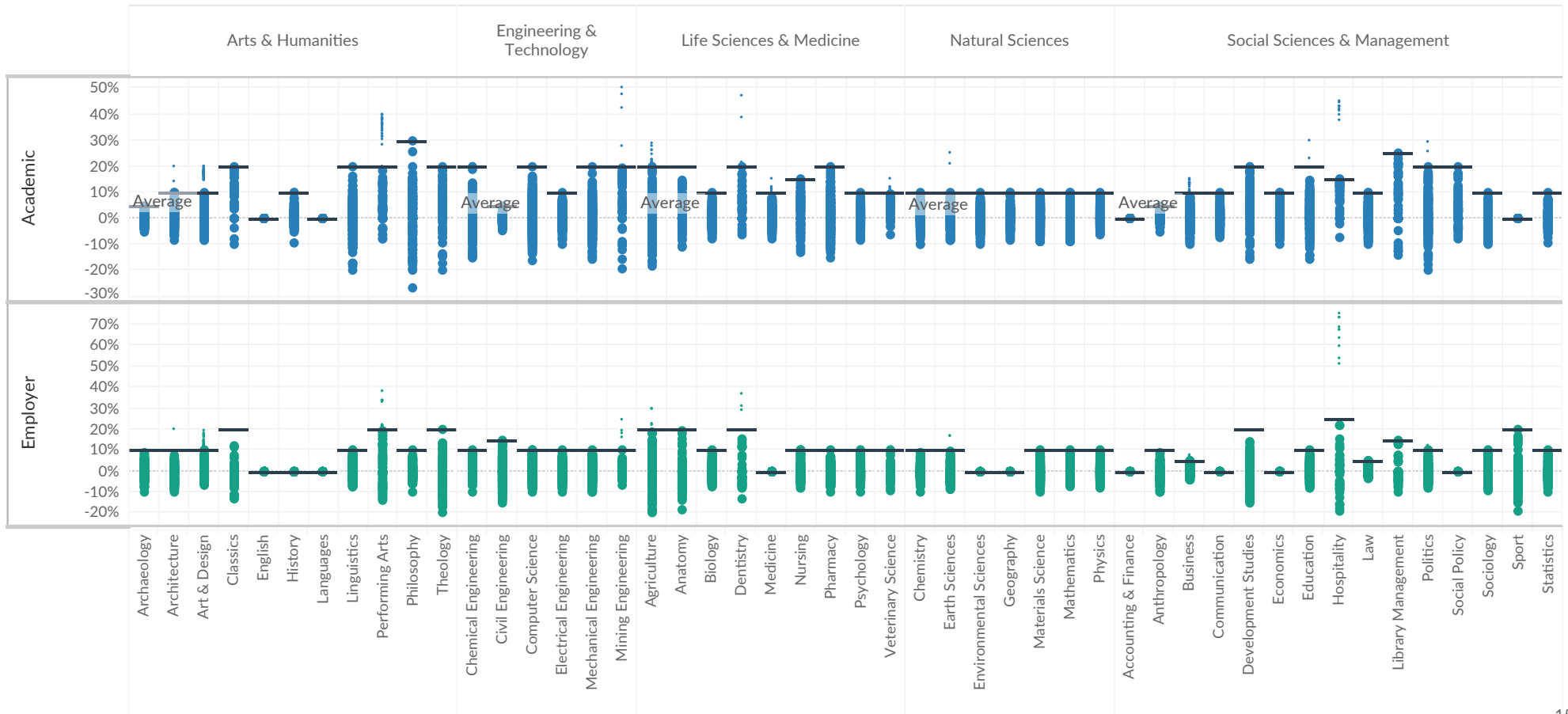
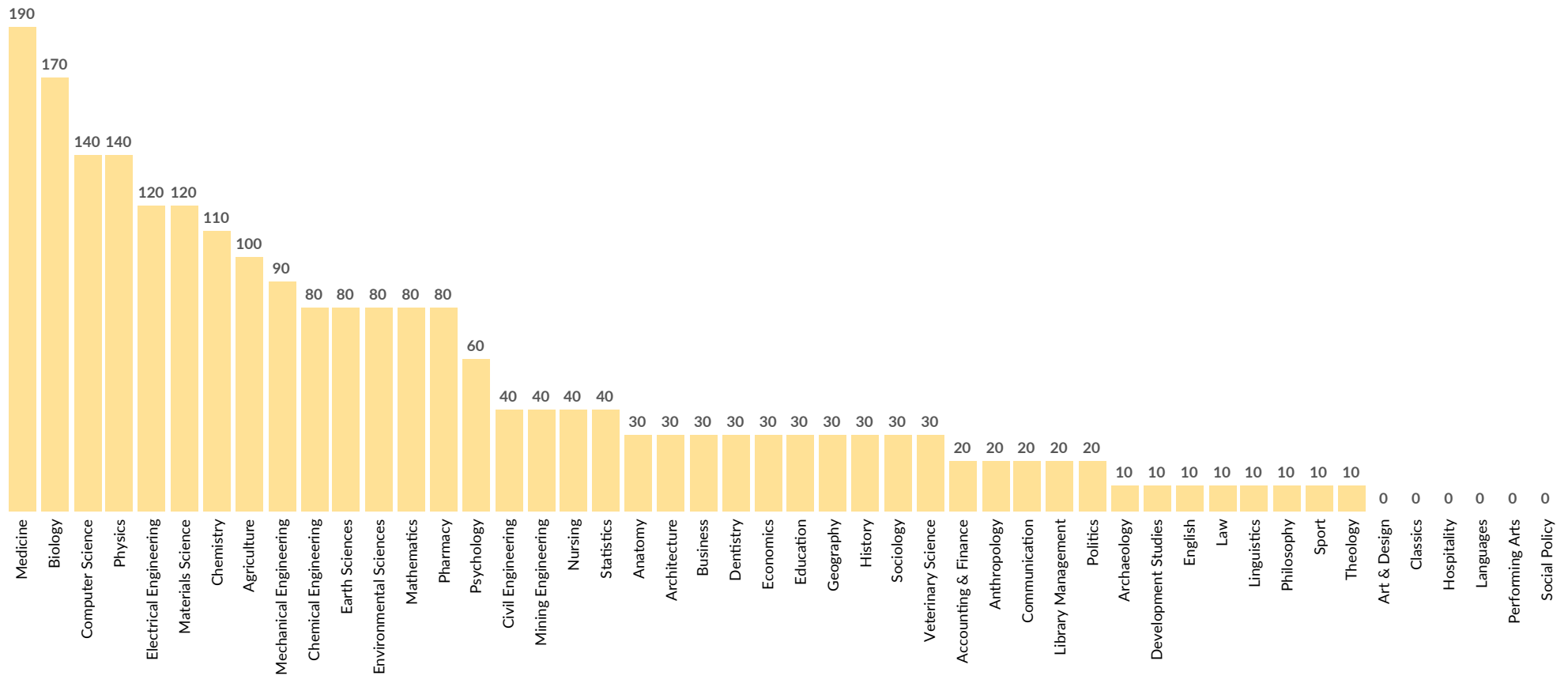# 2018 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

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 2018
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

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