



QS WORLD UNIVERSITY RANKINGS BY SUBJECT 2019

FACT FILE

Extended Version

Version 1.0

UNIVERSITAT POLITÈCNICA DE CATALUNYA

SPAIN

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2019

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THE 2019 QS WORLD UNIVERSITY RANKINGS BY SUBJECT
WERE LAUNCHED ON 27 FEBRUARY 2019 ON www.topuniversities.com

WELCOME TO THE 2019 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

Welcome to your institution's fact file for the QS World University Rankings by Subject 2019.

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. 1,222 institutions have been ranked across 48 subjects in 5 subject areas, creating 15,000 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 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 (please note, the subjects of Classics and Library Management were not featured in 2017).

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.

In this edition we have been able to increase the employer reputation component for three of our subject rankings where employer reputation is particularly key to that discipline. These are Hospitality, Performing Arts and Engineering – Mining.



The following sections focus on one broad subject area at a time, where it is relevant to your institution's performance. Specific subjects are grouped and displayed under the relevant broad subject area. Each section follows this format: a summary page of your performance, with ranks and scores. Then scatter plots highlighting your institution's performance on the reputational and research related indicators, as compared to other institutions globally. Next we dive in to each reputational score (academic, then employer) compared to the global mean. Finally, the section ends with a study of h-index and citations per paper.

Selina Griffin
Rankings Manager, QS



RANKINGS BY SUBJECT SUMMIT 2019



26th February



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Canberra, Australia

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IN KEY SUBJECT AREAS

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UNIVERSITAT POLITÈCNICA DE CATALUNYA

AT A GLANCE

RANKED IN 4 BROAD SUBJECT AREAS

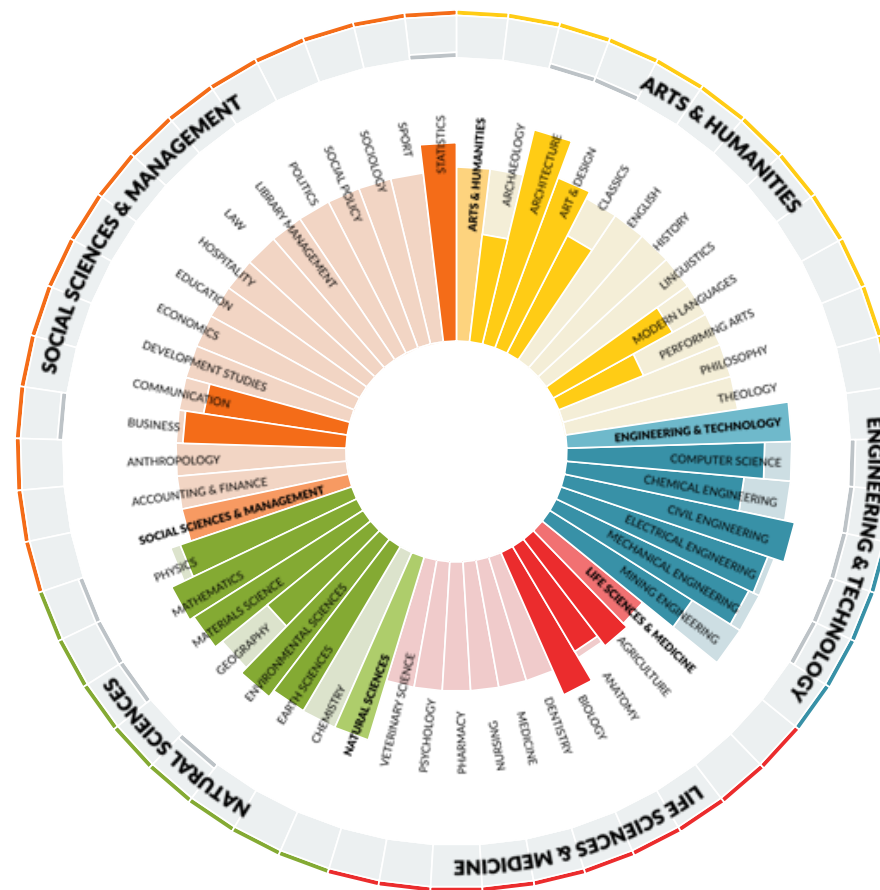
SCORED IN 24 SUBJECTS

RANKED IN 13 SUBJECTS

TOP 100 FOR 1 BROAD SUBJECT AREA

TOP 100 FOR 5 SUBJECTS

TOP 50 FOR 2 SUBJECTS



Arts & Humanities



Engineering & Technology



Life Sciences & Medicine



Natural Sciences



Social Sciences & Management



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

UNIVERSITAT POLITÈCNICA DE CATALUNYA

Spain

345=

85=

279=

394

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

Arts & Humanities



Engineering & Technology



Life Sciences & Medicine



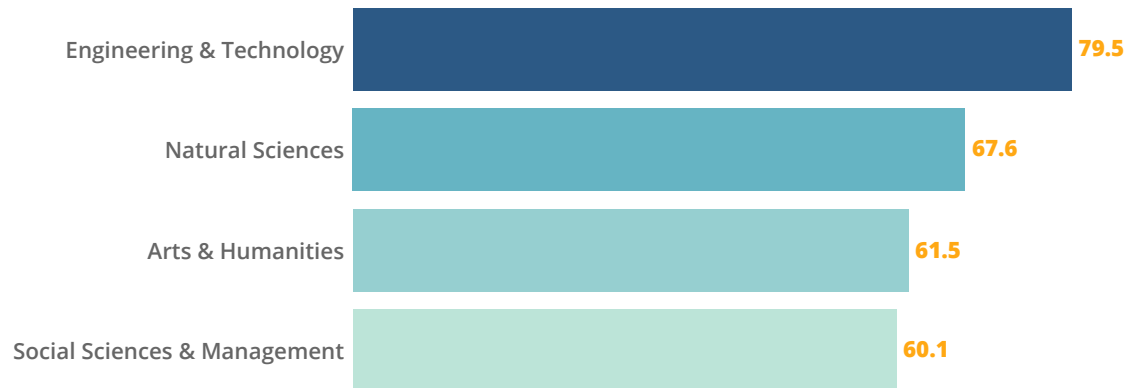
Natural Sciences



Social Sciences & Management



OVERALL SCORES BY SUBJECT AREA



In 2019, Universitat Politècnica de Catalunya has been ranked in 4 out of 5 broad subject areas.

Engineering & Technology is the institution's strongest field at **85=** and an overall score of **79.5**.

2019 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	345=	12	62.4	67.0	72.9	33.7	61.5
	Archaeology			35.2	64.8	45.9	24.5	38.2
	Architecture / Built Environment	29	1	76.3	79.1	83.6	82.4	77.9
	Art & Design	51-100	1	63.8	66.9			64.1
	Classics & Ancient History			45.9	54.3			46.7
	English Language & Literature							
	History							
	Linguistics							
	Modern Languages			41.7	63.3			48.2
	Performing Arts			27.6	50.9			32.3
	Philosophy							
Theology, Divinity & Religious Studies								
Engineering & Technology	Engineering & Technology	85=	1	83.5	68.9	83.9	85.3	79.5
	Computer Science & Information Systems	101-150	1	61.6	67.0	83.1	84.9	69.9
	Engineering - Chemical	201-250	6	49.8	73.4	75.5	65.1	63.0
	Engineering - Civil & Structural	23	1	84.3	78.9	85.6	86.0	83.1
	Engineering - Electrical & Electronic	51-100	1	72.7	71.7	90.3	86.5	77.1
	Engineering - Mechanical, Aeronautical & Manufac..	51-100	2	70.4	80.0	80.5	74.4	75.4
	Engineering - Mineral & Mining			32.3	74.3	86.0	76.2	59.5
Life Sciences & Medicine	Life Sciences & Medicine			58.0	61.8	39.8	25.4	45.7
	Agriculture & Forestry			33.2	58.4	66.6	58.7	47.5
	Anatomy & Physiology			37.9	57.9	38.9	49.6	43.1
	Biological Sciences			46.7	61.5	59.8	60.7	55.0
	Dentistry							
	Medicine							
	Pharmacy & Pharmacology							
	Psychology							

2019 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

		Global Rank	Domestic Rank	Academic	Employer	Citations	H-index	Score
Natural Sciences	Chemistry							
	Earth & Marine Sciences			52.2	72.3	79.7	77.6	67.4
	Environmental Sciences	151-200	5	55.4	74.9	86.9	74.8	70.1
	Geography			39.3	68.0	59.6	52.1	47.1
	Materials Science	151-200	2	67.5	71.3	81.1	65.0	70.7
	Mathematics	101-150	1	66.4	67.2	84.8	77.9	72.5
	Natural Sciences	279=	8	63.5	69.6	77.6	63.6	67.6
	Physics & Astronomy	301-350	8	55.0	67.2	79.8	63.2	64.0
Social Sciences & Management	Accounting & Finance							
	Anthropology							
	Business & Management Studies	301-350	11	44.6	62.7	85.3	80.3	57.7
	Communication & Media Studies			42.1	69.0	67.8	48.8	51.3
	Development Studies							
	Economics & Econometrics							
	Education							
	Hospitality & Leisure Management							
	Law							
	Library & Information Management							
	Politics & International Studies							
	Social Policy & Administration							
	Social Sciences & Management	394	10	52.6	65.6	81.2	60.4	60.1
	Sociology							
	Sports-related Subjects							
Statistics & Operational Research	101-150	3	63.3	64.3	80.0	80.2	70.1	

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.
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.

2019 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

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

		2017	2018	2019			2017	2018	2019
Arts & Humanities	Arts & Humanities	384=	298=	345=	Natural Sciences	Natural Sciences	299=	271=	279=
	Art & Design	101-150	51-100	51-100		Chemistry			
	History					Earth & Marine Sciences			
	Archaeology					Environmental Sciences	201-250	151-200	151-200
	Architecture / Built Environment	26	22	29		Geography			
	Classics & Ancient History					Materials Science	151-200	151-200	151-200
	English Language & Literature					Mathematics	51-100	51-100	101-150
	Linguistics					Physics & Astronomy	251-300	201-250	301-350
	Modern Languages					Social Sciences & Management	363=	298	394
	Performing Arts					Accounting & Finance			
	Philosophy					Anthropology			
	Theology, Divinity & Religious Studies					Business & Management Studies	251-300	251-300	301-350
Engineering & Technology	Engineering & Technology	84	81=	85=	Communication & Media Studies				
	Computer Science & Information Systems	101-150	51-100	101-150	Development Studies				
	Engineering - Chemical	201-250	201-250	201-250	Economics & Econometrics				
	Engineering - Civil & Structural	34	34=	23	Education				
	Engineering - Mechanical, Aeronautical & Manufact..	101-150	101-150	51-100	Hospitality & Leisure Management				
	Engineering - Electrical & Electronic	51-100	51-100	51-100	Law				
	Engineering - Mineral & Mining				Library & Information Management				
					Politics & International Studies				
Life Sciences & Medicine	Life Sciences & Medicine				Social Policy & Administration				
	Agriculture & Forestry	201-250	201-250		Sociology				
	Anatomy & Physiology				Sports-related Subjects				
	Biological Sciences				Statistics & Operational Research	101-150	101-150	101-150	
	Medicine								
	Pharmacy & Pharmacology								
	Psychology								
	Dentistry								
	Nursing								



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Taking place on June 13th, this is a unique one-day seminar in which industry experts will provide insights on how to maximize your institution's potential, measured by the QS methodologies used to create the QS World University Rankings and the QS World Rankings by Subject.

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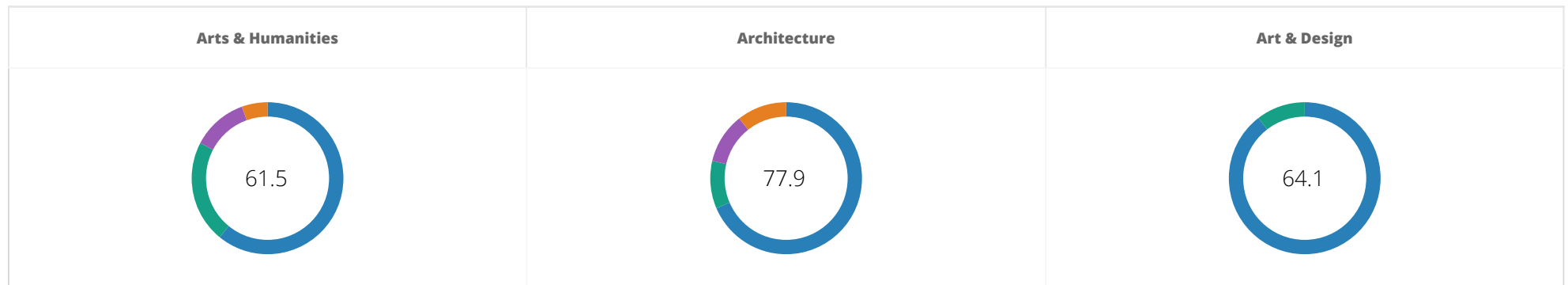
ARTS & HUMANITIES

2019 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

RANKINGS PERFORMANCE - **ARTS & HUMANITIES** AND RELATED SUBJECTS

Arts & Humanities	Architecture	Art & Design
345=	29	51-100

The circles represent the contribution of each indicator to the overall score, as displayed in the centre. The bar charts provide the scores by indicator. The maximum achievable in each of them is 100 points.

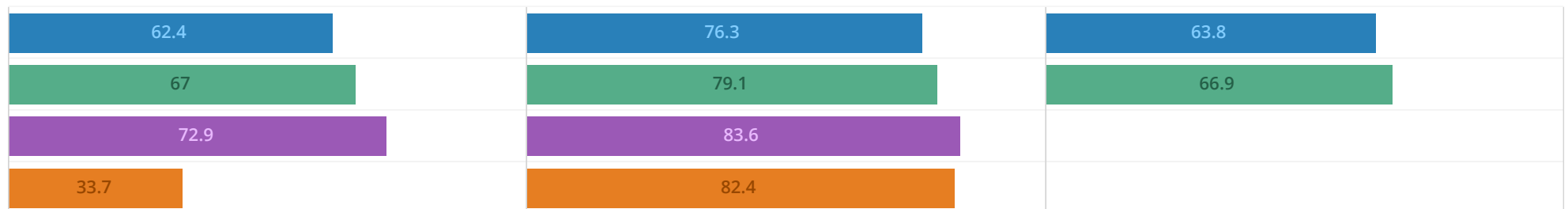


■ Academic Reputation Score

■ Employer Reputation Score

■ Citations per Paper Score

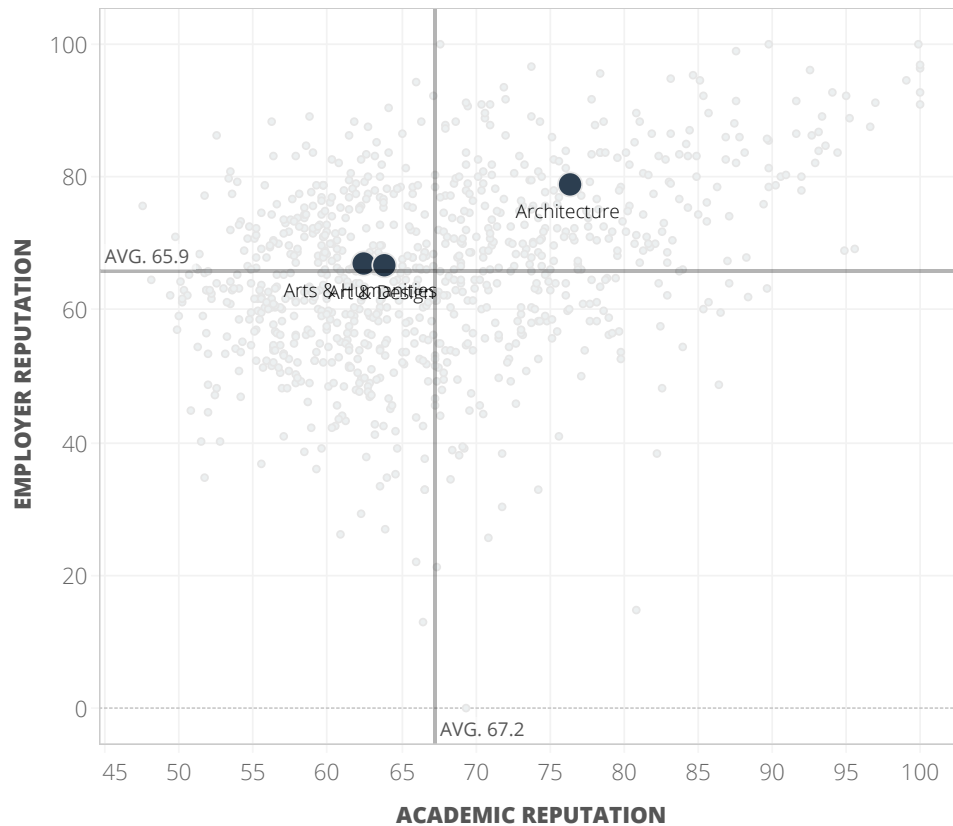
■ H-index Score



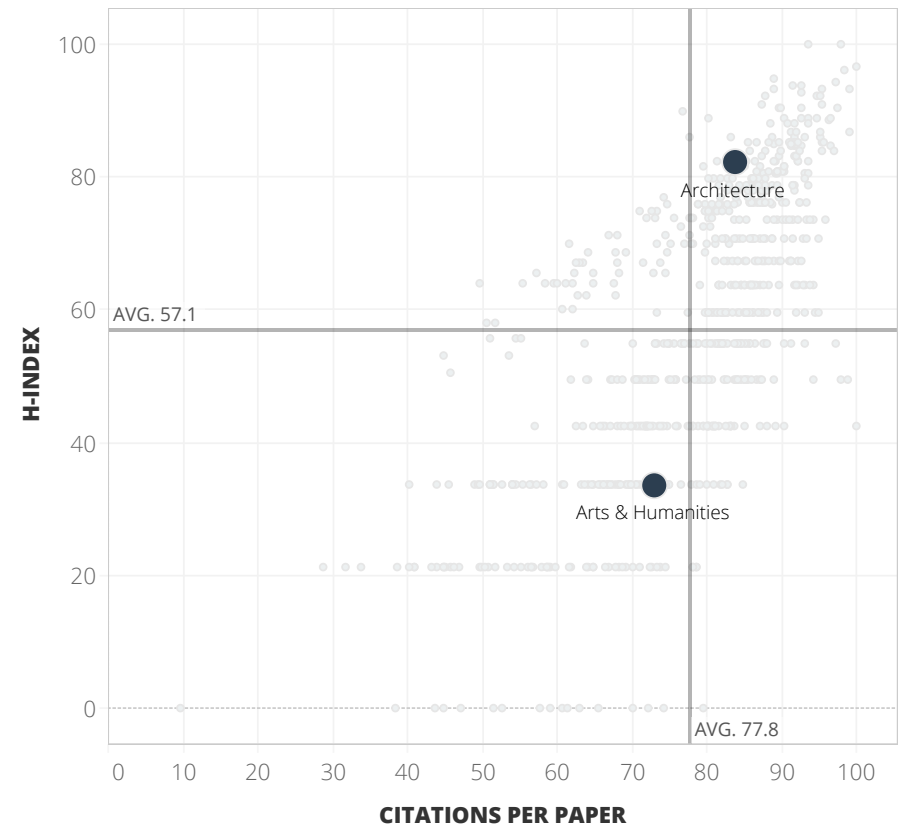
UNIVERSITAT POLITÈCNICA DE CATALUNYA

The following charts provide a view of the **reputational** (left side) and **research-related** (right side) indicators used in the Rankings by Subject. The scatter plots combine two relevant variables, highlighting the institution's performance compared to institutions globally.

ARTS & HUMANITIES | ACADEMIC & EMPLOYER REPUTATION SCORES



ARTS & HUMANITIES | CITATIONS PER PAPER & H-INDEX SCORES



UNIVERSITAT POLITÈCNICA DE CATALUNYA

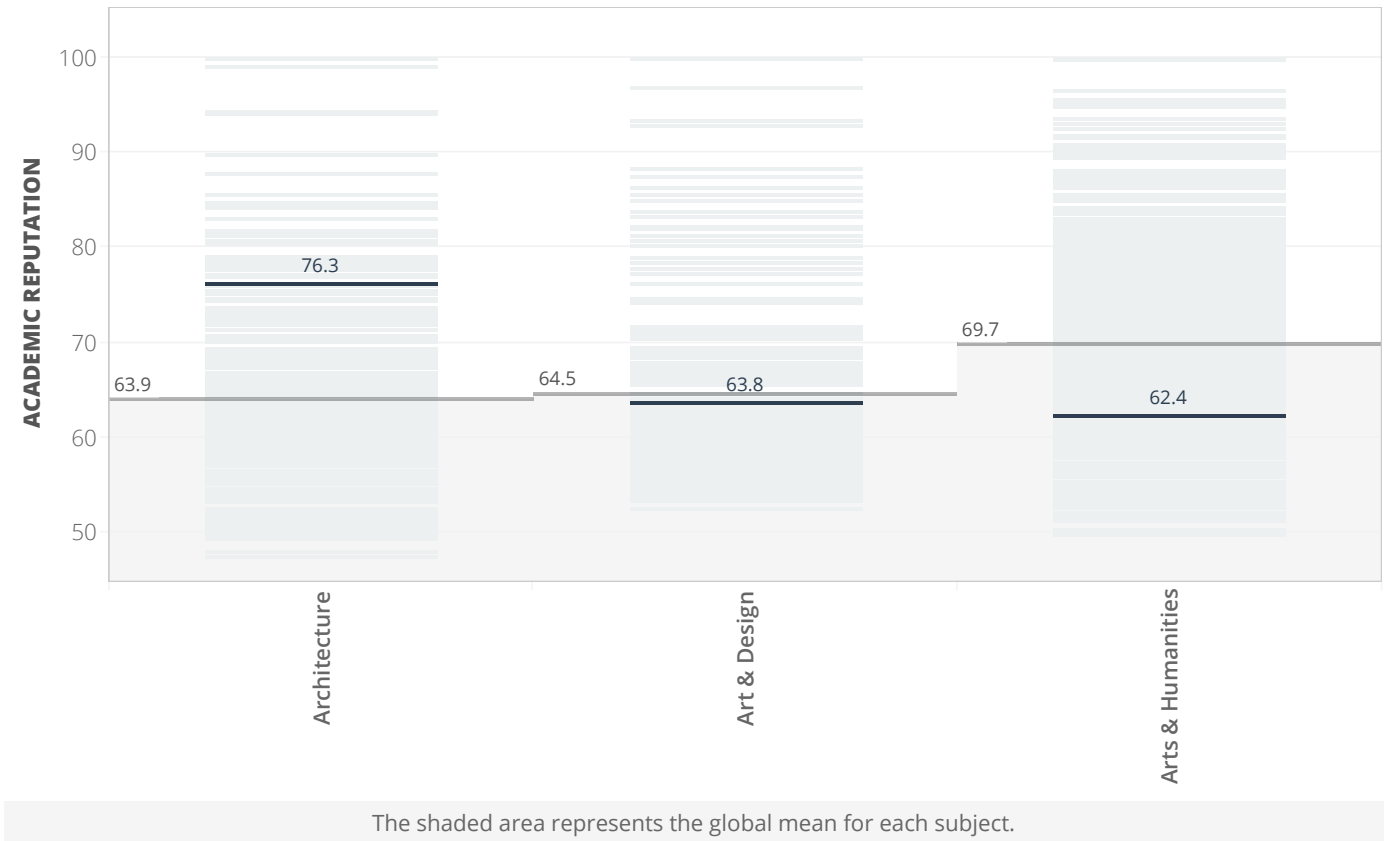
ACADEMIC REPUTATION SCORES

The charts below present the Academic Reputation Scores for the institutions featured in the rankings **Institution's results** | **global mean**.

BROAD SUBJECT AREA



ARTS & HUMANITIES | SPECIFIC SUBJECTS

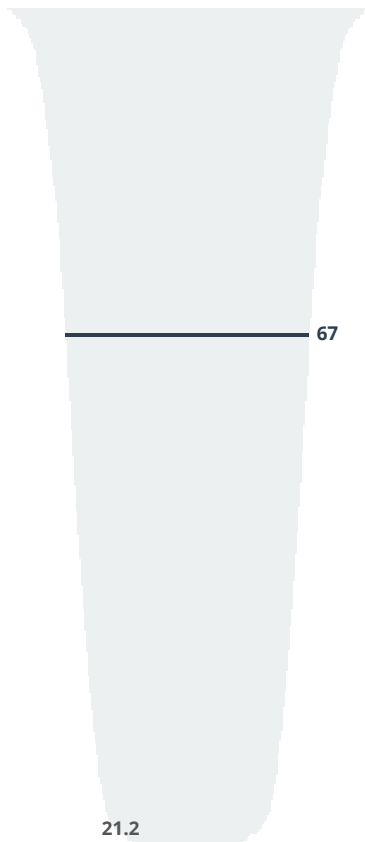


UNIVERSITAT POLITÈCNICA DE CATALUNYA

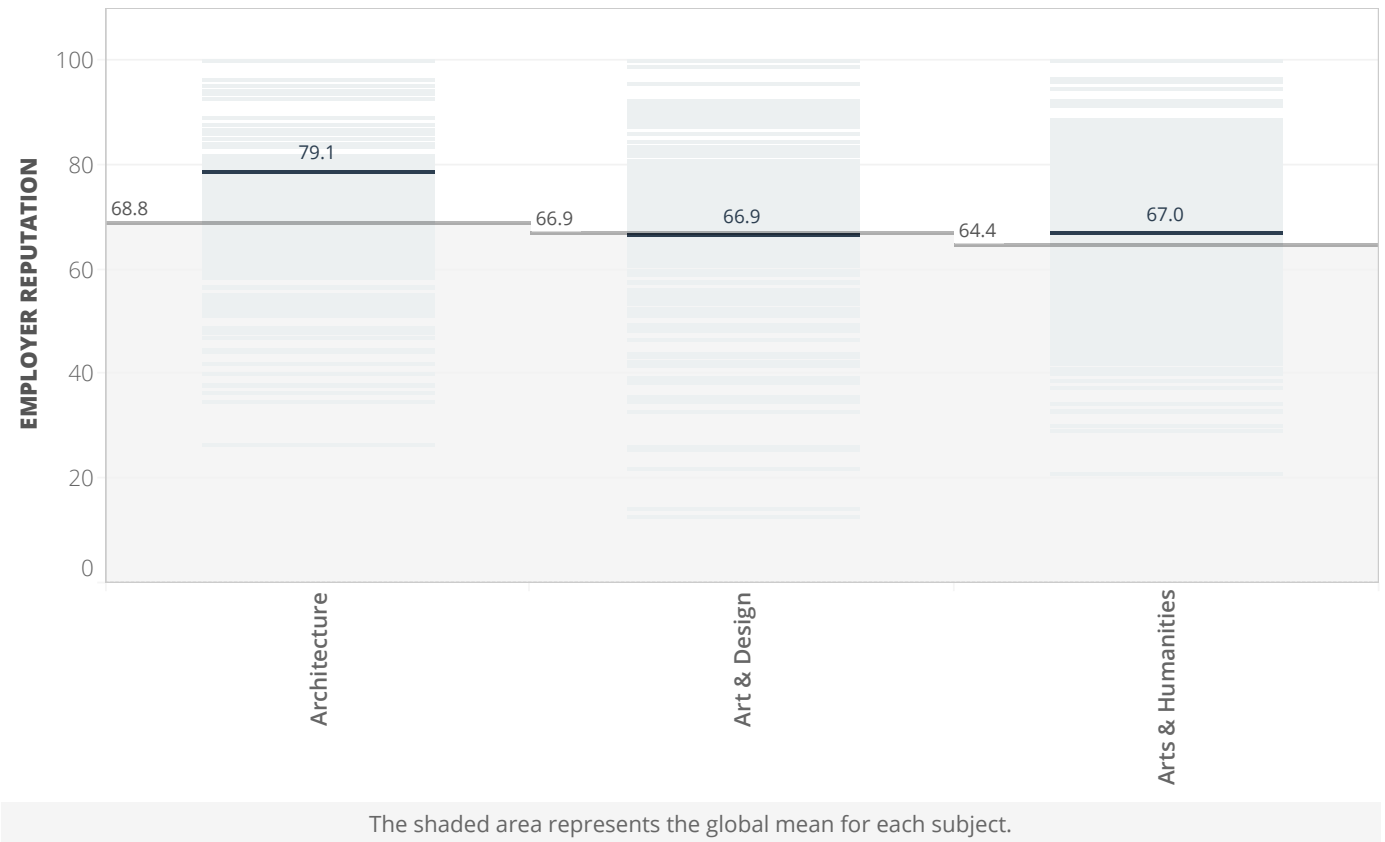
EMPLOYER REPUTATION SCORES

The charts below present the Employer Reputation Scores for the institutions featured in the rankings **Institution's results** | **global mean**.

BROAD SUBJECT AREA



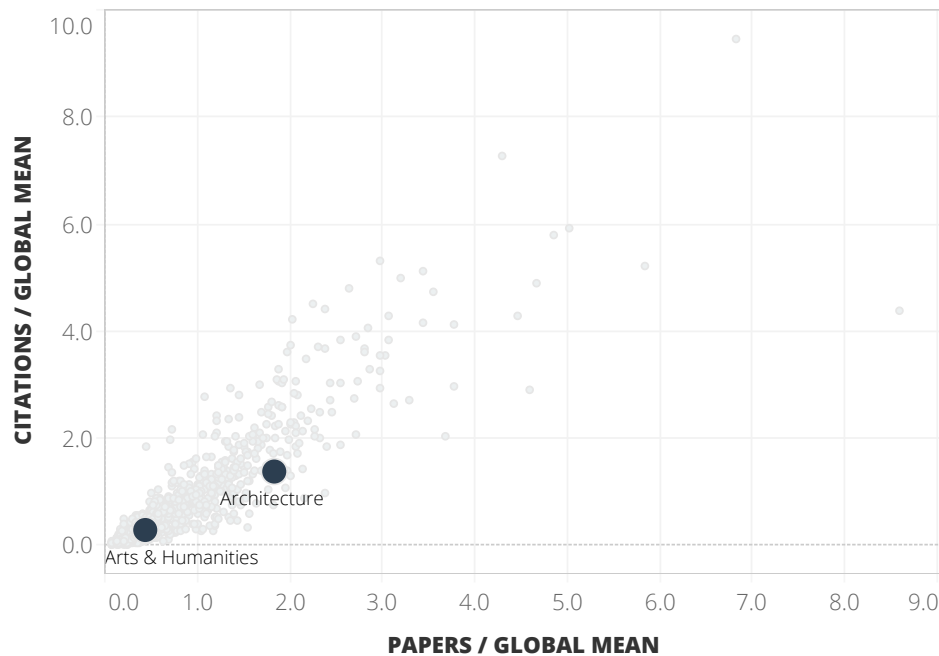
ARTS & HUMANITIES | SPECIFIC SUBJECTS



UNIVERSITAT POLITÈCNICA DE CATALUNYA

ARTS & HUMANITIES | PAPERS AND CITATIONS COUNTS - DIFFERENCE AGAINST GLOBAL MEAN BY SUBJECT

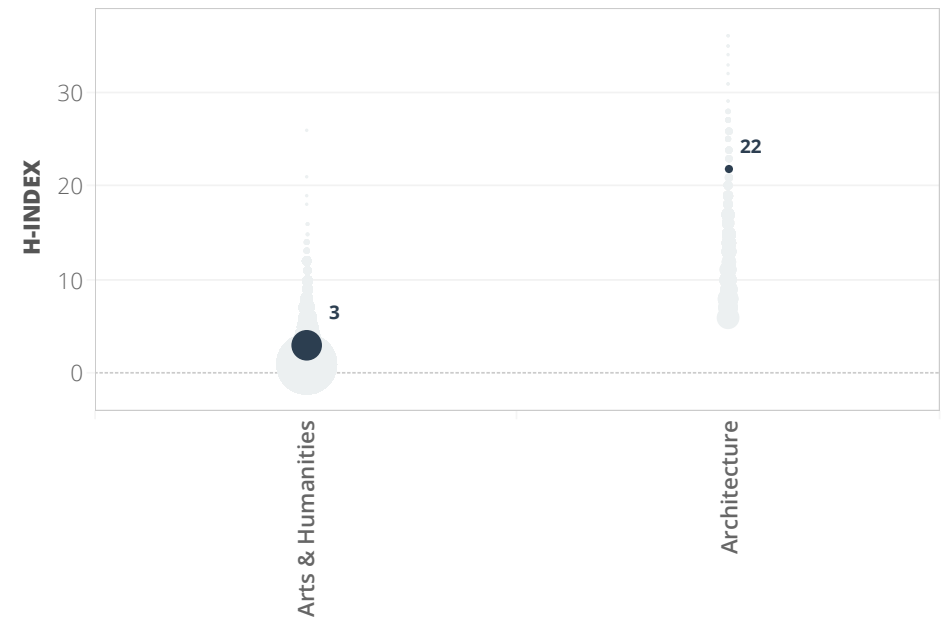
The chart below presents the relationship between **the institution's counts of papers and citations** and the respective global means by subject. A ratio of 1.0 represents a performance on a par with the global average.



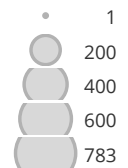
In 2019, Architecture delivered the best relative results in terms of citations for Universitat Politècnica de Catalunya, representing roughly 1.4 times the global average. On the other hand, the institution published 1.8 times the average number of papers indexed globally over the 2012-2016 period.

ARTS & HUMANITIES | H-INDEX BY SUBJECT

The chart provides a view of the performance in the h-index, highlighting the **institution's index** against the global performance. The size of the bubble represents the total number of institutions recorded in each performance level.



In the 2019 edition of the rankings, Architecture was Universitat Politècnica de Catalunya's subject with the highest h-index at 22. This means that 22 papers published by the institution from 2012-2016 attracted at least 22 citations in a six year period (2012-2017).



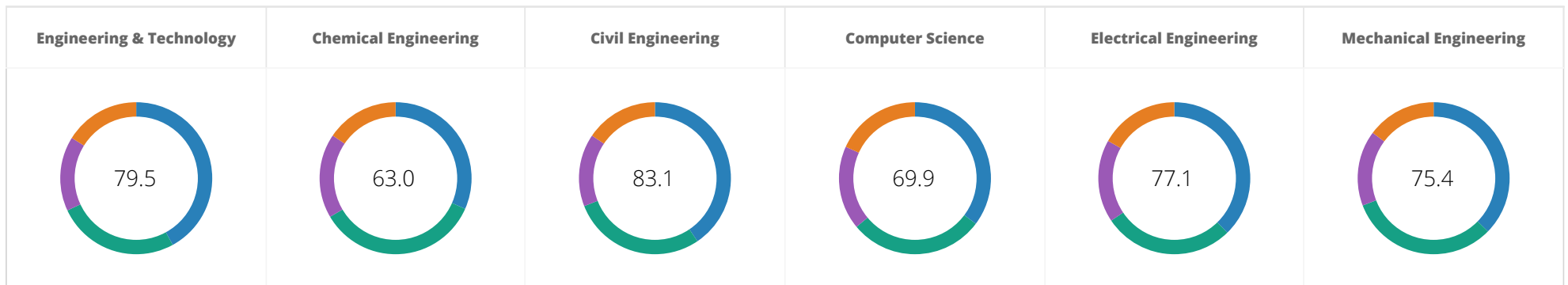
ENGINEERING & TECHNOLOGY

2019 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

RANKINGS PERFORMANCE - **ENGINEERING & TECHNOLOGY** AND RELATED SUBJECTS

Engineering & Technology	Chemical Engineering	Civil Engineering	Computer Science	Electrical Engineering	Mechanical Engineering
85=	201-250	23	101-150	51-100	51-100

The circles represent the contribution of each indicator to the overall score, as displayed in the centre. The bar charts provide the scores by indicator. The maximum achievable in each of them is 100 points.

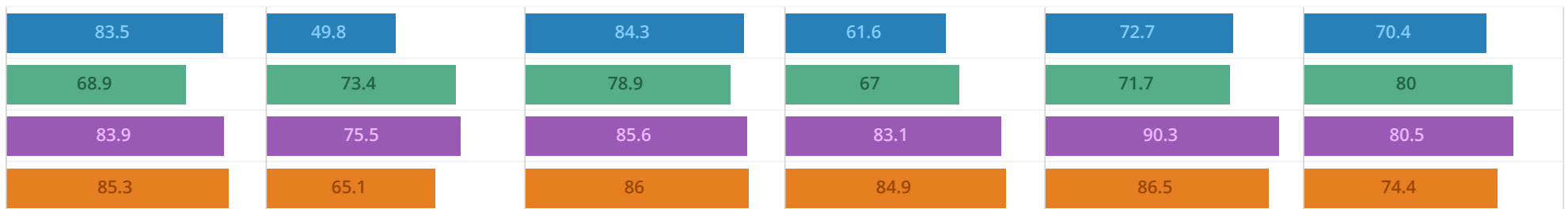


■ Academic Reputation Score

■ Employer Reputation Score

■ Citations per Paper Score

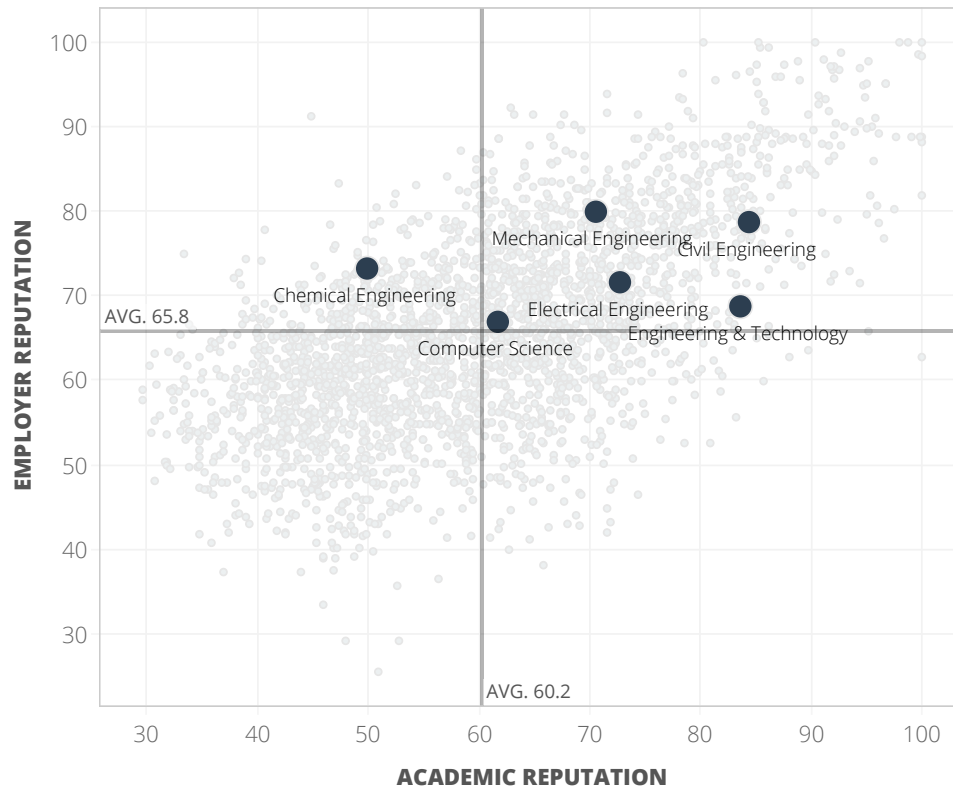
■ H-index Score



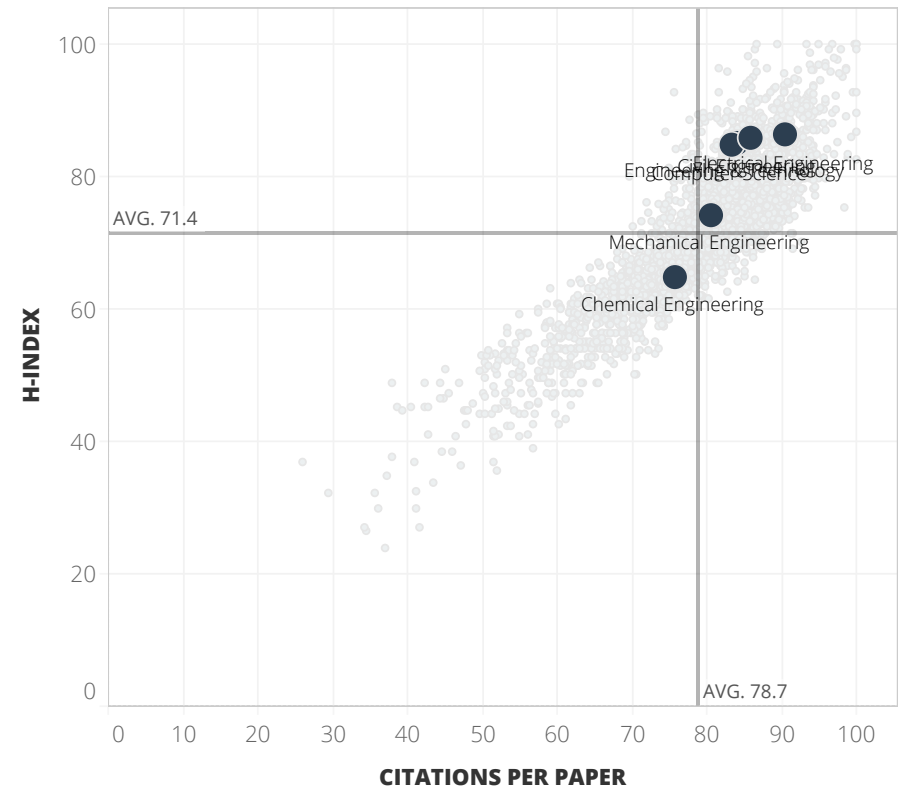
UNIVERSITAT POLITÈCNICA DE CATALUNYA

The following charts provide a view of the **reputational** (left side) and **research-related** (right side) indicators used in the Rankings by Subject. The scatter plots combine two relevant variables, highlighting the institution's performance compared to institutions globally.

ENGINEERING & TECHNOLOGY | ACADEMIC & EMPLOYER REPUTATION SCORES



ENGINEERING & TECHNOLOGY | CITATIONS PER PAPER & H-INDEX SCORES



UNIVERSITAT POLITÈCNICA DE CATALUNYA

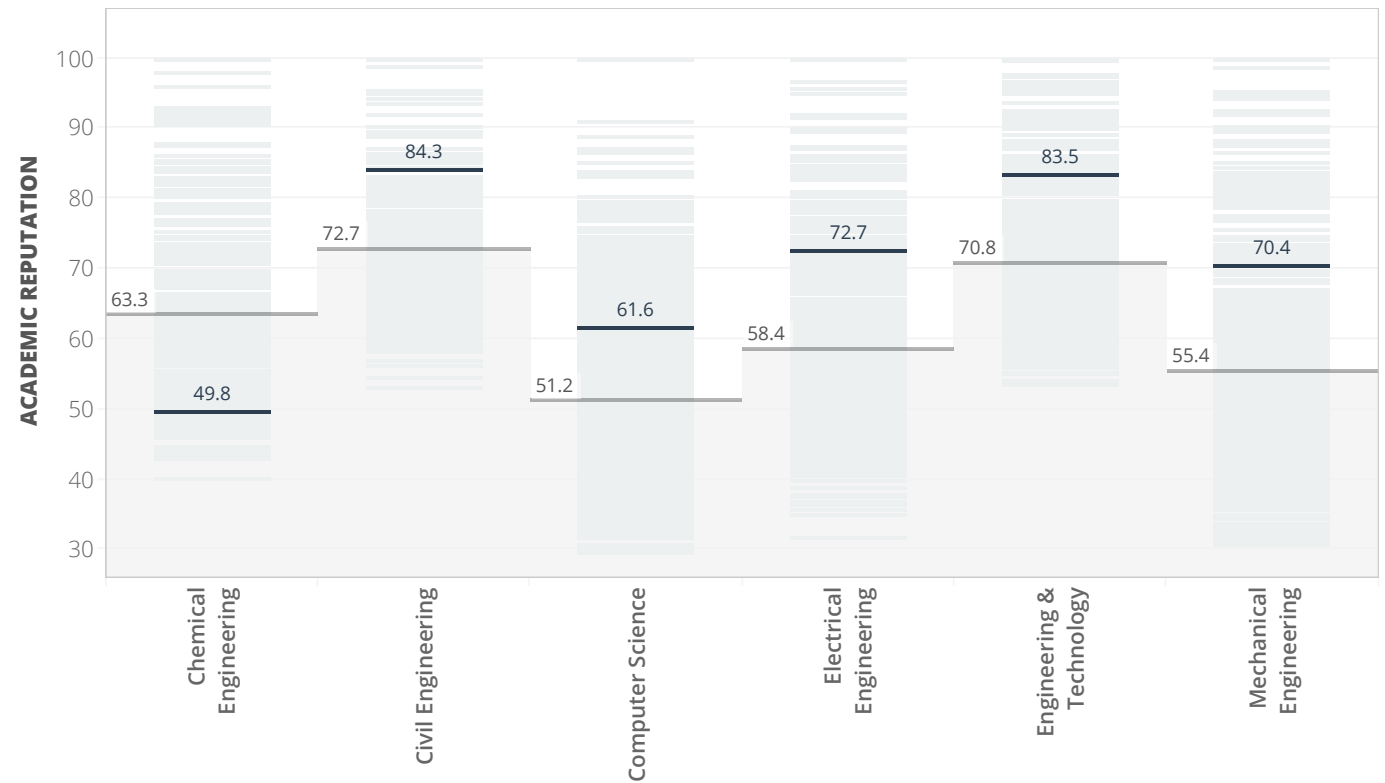
ACADEMIC REPUTATION SCORES

The charts below present the Academic Reputation Scores for the institutions featured in the rankings **Institution's results** | **global mean**.

BROAD SUBJECT AREA



ENGINEERING & TECHNOLOGY | SPECIFIC SUBJECTS



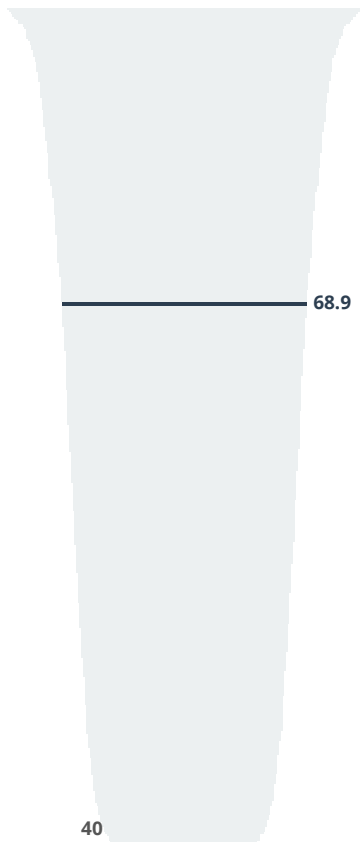
The shaded area represents the global mean for each subject.

UNIVERSITAT POLITÈCNICA DE CATALUNYA

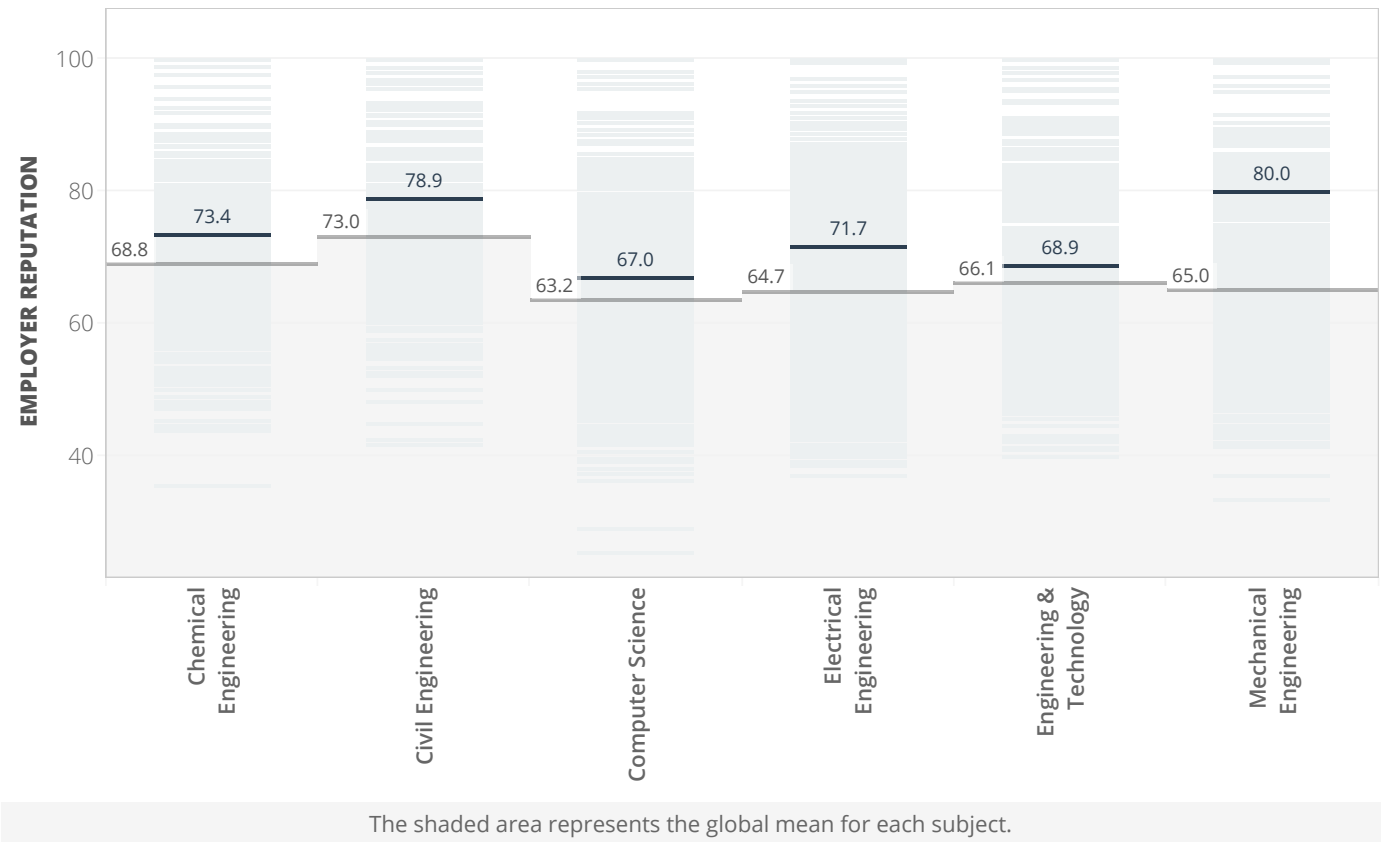
EMPLOYER REPUTATION SCORES

The charts below present the Employer Reputation Scores for the institutions featured in the rankings **Institution's results** | **global mean**.

BROAD SUBJECT AREA



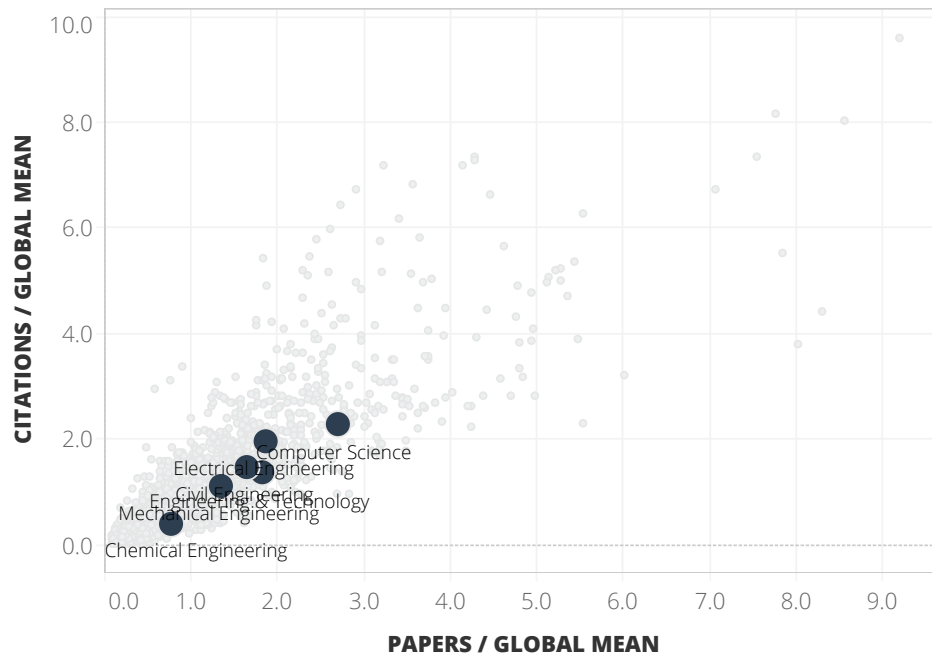
ENGINEERING & TECHNOLOGY | SPECIFIC SUBJECTS



UNIVERSITAT POLITÈCNICA DE CATALUNYA

ENGINEERING & TECHNOLOGY | PAPERS AND CITATIONS COUNTS - DIFFERENCE AGAINST GLOBAL MEAN BY SUBJECT

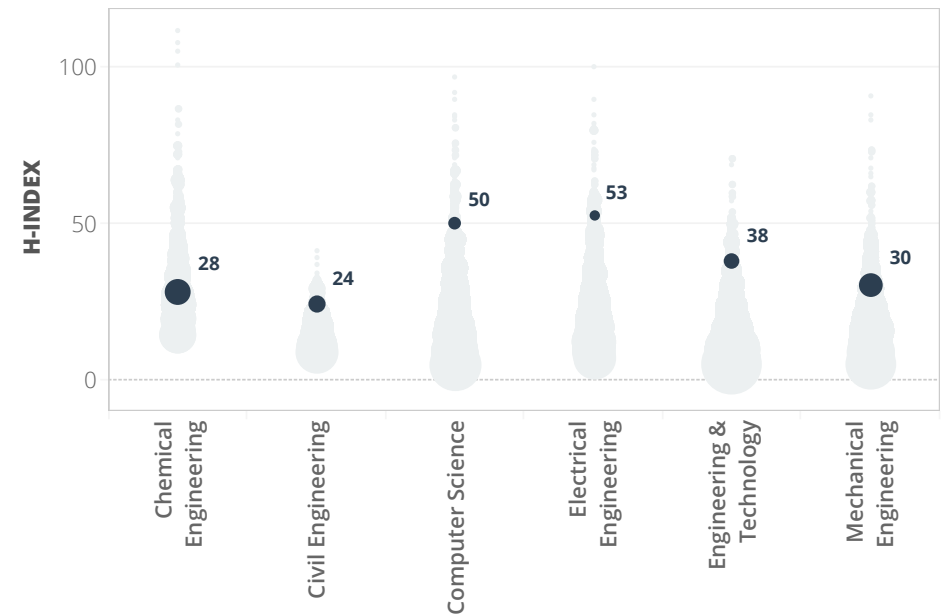
The chart below presents the relationship between **the institution's counts of papers and citations** and the respective global means by subject. A ratio of 1.0 represents a performance on a par with the global average.



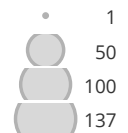
In 2019, Computer Science delivered the best relative results in terms of citations for Universitat Politècnica de Catalunya, representing roughly 2.3 times the global average. On the other hand, the institution published 2.7 times the average number of papers indexed globally over the 2012-2016 period.

ENGINEERING & TECHNOLOGY | H-INDEX BY SUBJECT

The chart provides a view of the performance in the h-index, highlighting the **institution's index** against the global performance. The size of the bubble represents the total number of institutions recorded in each performance level.



In the 2019 edition of the rankings, Electrical Engineering was Universitat Politècnica de Catalunya's subject with the highest h-index at 53. This means that 53 papers published by the institution from 2012-2016 attracted at least 53 citations in a six year period (2012-2017).



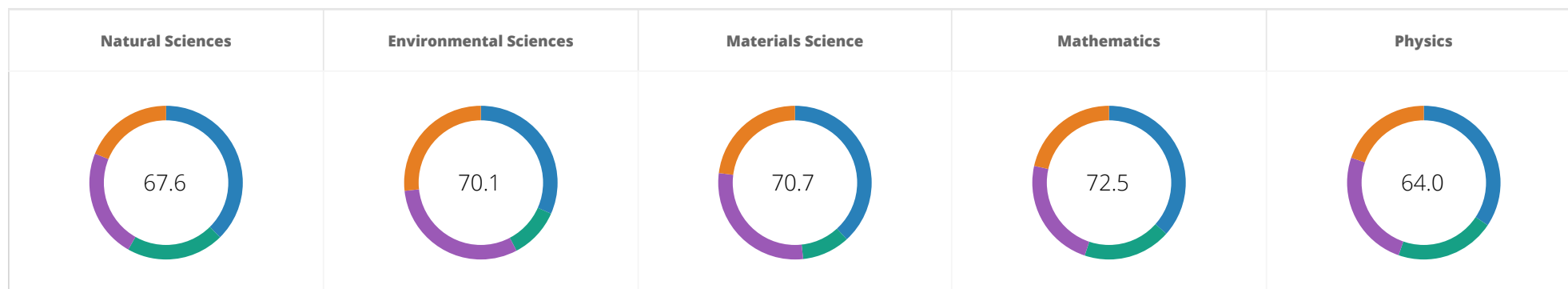
NATURAL SCIENCES

2019 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

RANKINGS PERFORMANCE - NATURAL SCIENCES AND RELATED SUBJECTS

Natural Sciences	Environmental Sciences	Materials Science	Mathematics	Physics
279=	151-200	151-200	101-150	301-350

The circles represent the contribution of each indicator to the overall score, as displayed in the centre. The bar charts provide the scores by indicator. The maximum achievable in each of them is 100 points.

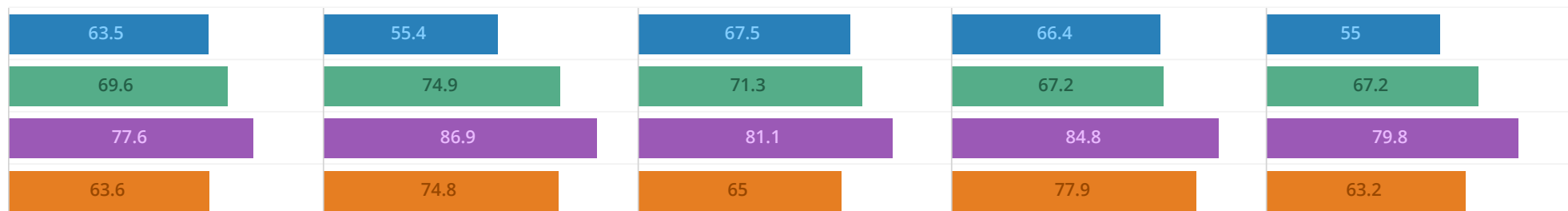


■ Academic Reputation Score

■ Employer Reputation Score

■ Citations per Paper Score

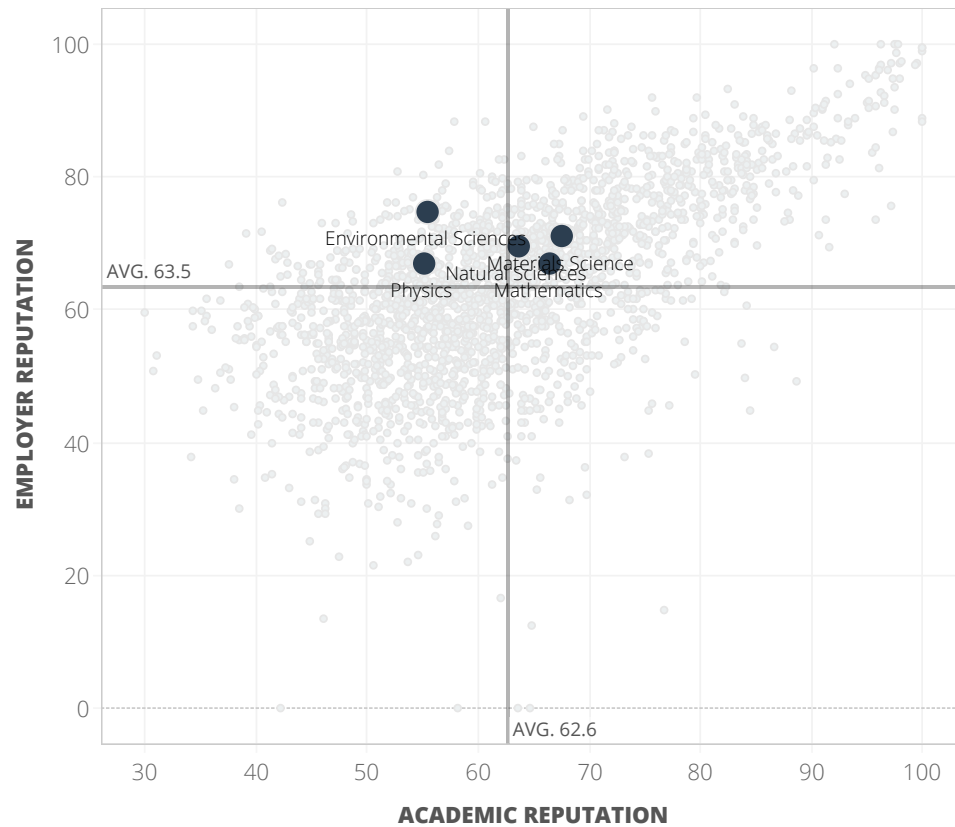
■ H-index Score



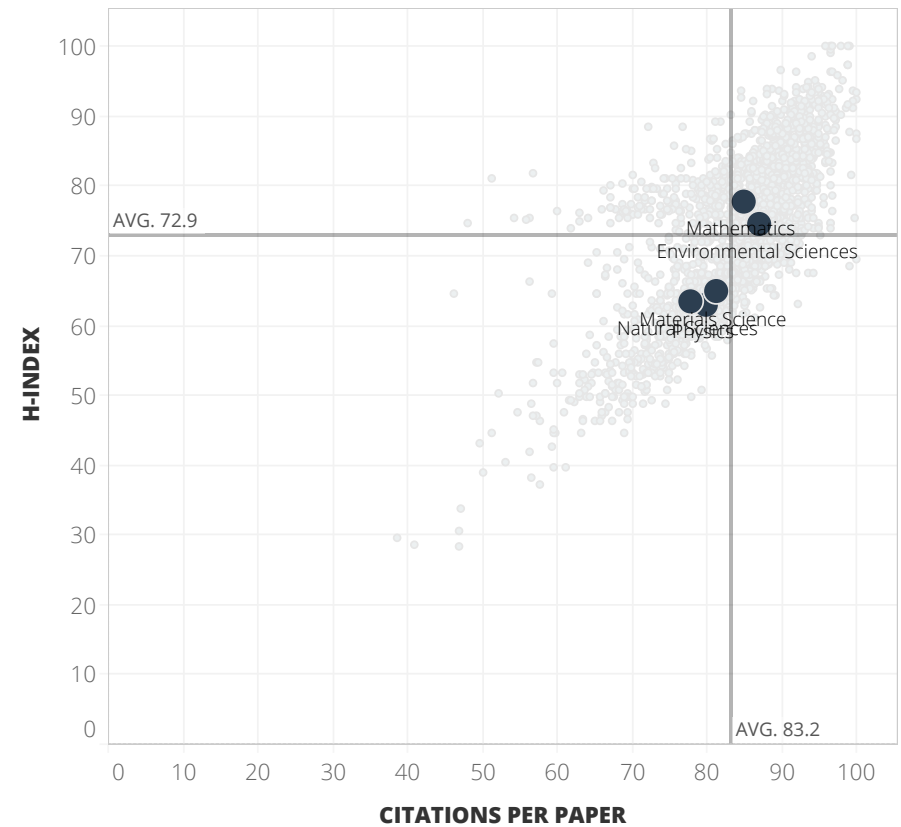
UNIVERSITAT POLITÈCNICA DE CATALUNYA

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NATURAL SCIENCES | ACADEMIC & EMPLOYER REPUTATION SCORES



NATURAL SCIENCES | CITATIONS PER PAPER & H-INDEX SCORES



UNIVERSITAT POLITÈCNICA DE CATALUNYA

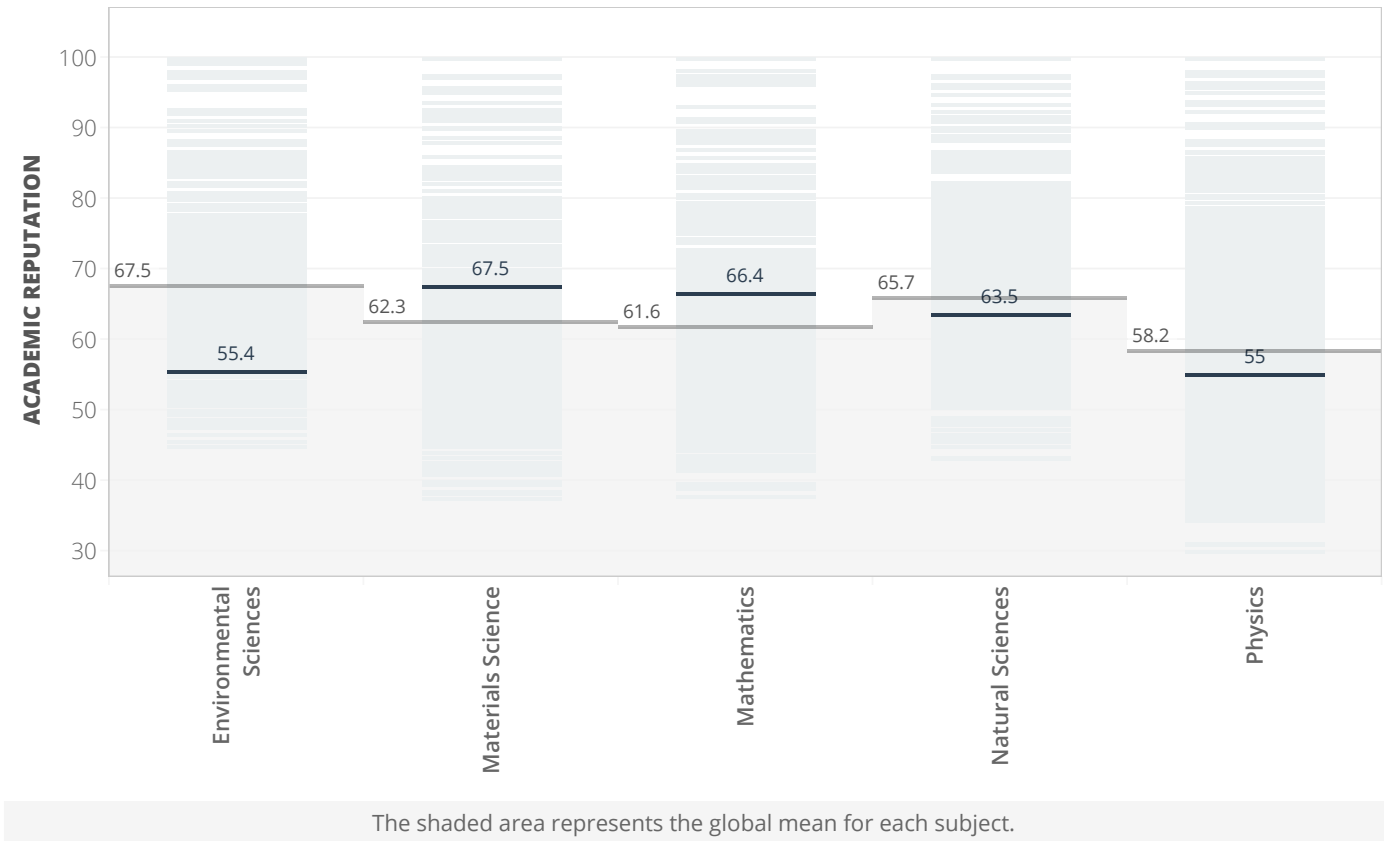
ACADEMIC REPUTATION SCORES

The charts below present the Academic Reputation Scores for the institutions featured in the rankings **Institution's results** | **global mean**.

BROAD SUBJECT AREA



NATURAL SCIENCES | SPECIFIC SUBJECTS



UNIVERSITAT POLITÈCNICA DE CATALUNYA

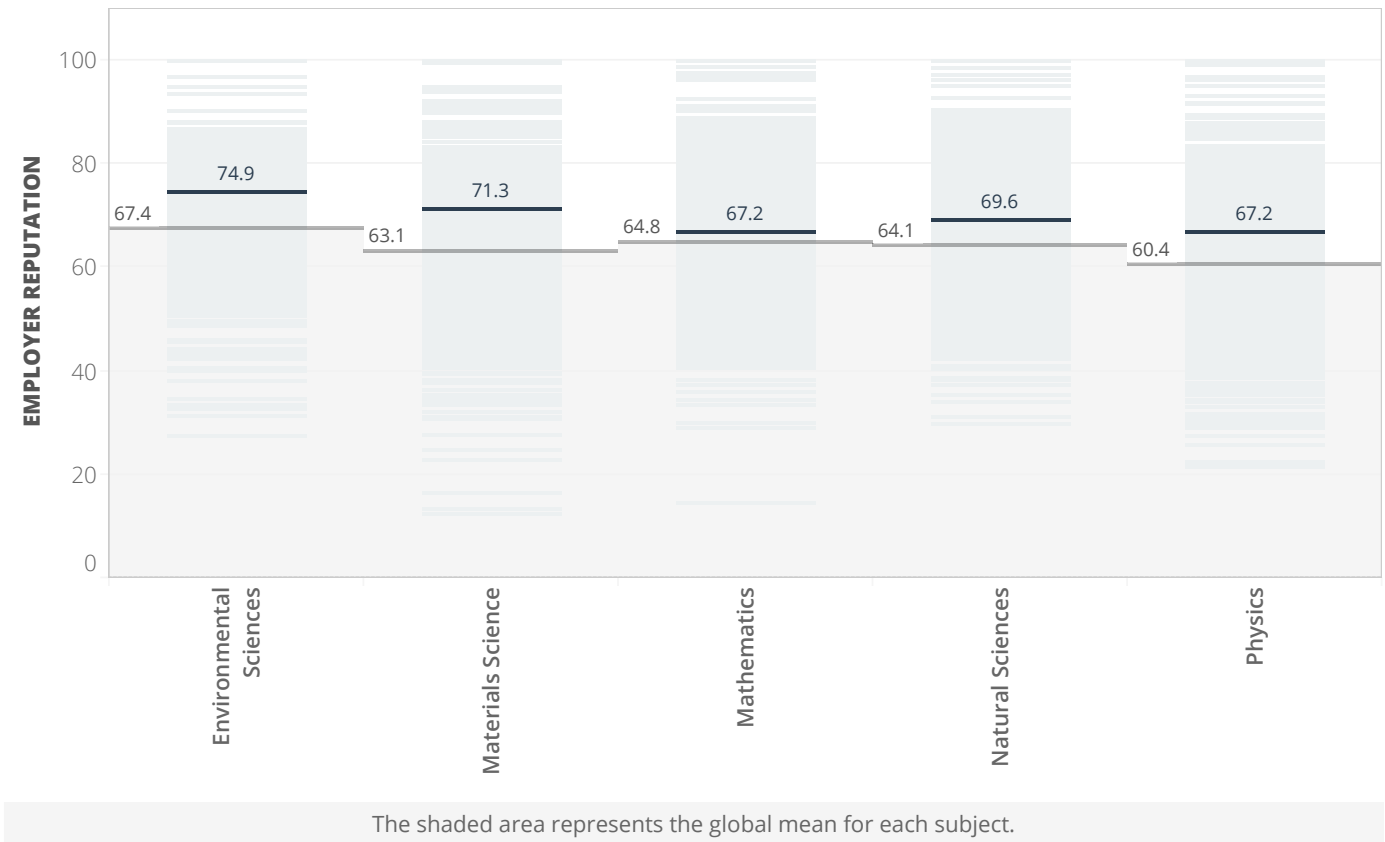
EMPLOYER REPUTATION SCORES

The charts below present the Employer Reputation Scores for the institutions featured in the rankings **Institution's results** | **global mean**.

BROAD SUBJECT AREA



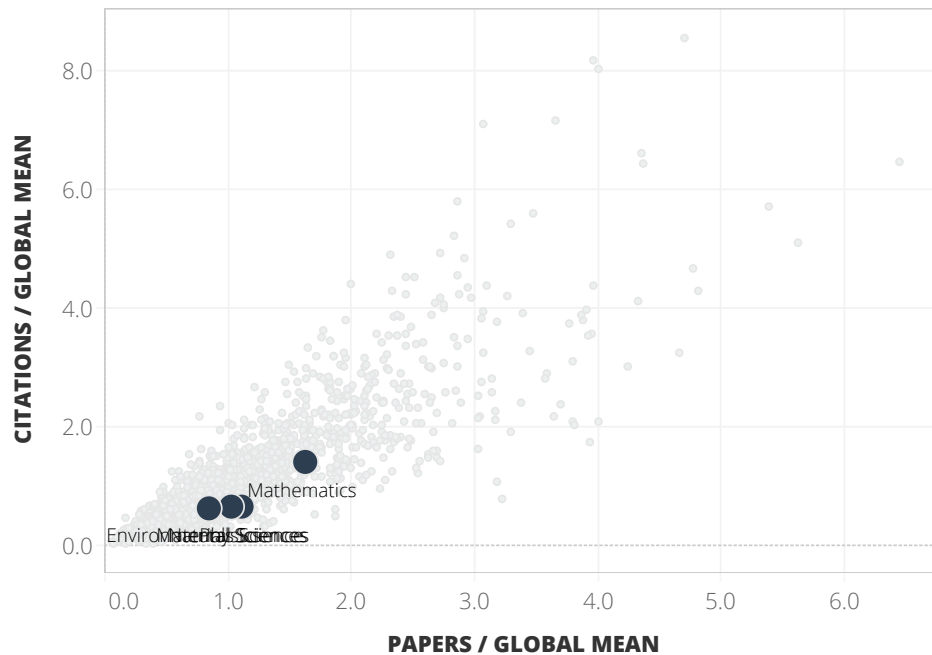
NATURAL SCIENCES | SPECIFIC SUBJECTS



UNIVERSITAT POLITÈCNICA DE CATALUNYA

NATURAL SCIENCES | PAPERS AND CITATIONS COUNTS - DIFFERENCE AGAINST GLOBAL MEAN BY SUBJECT

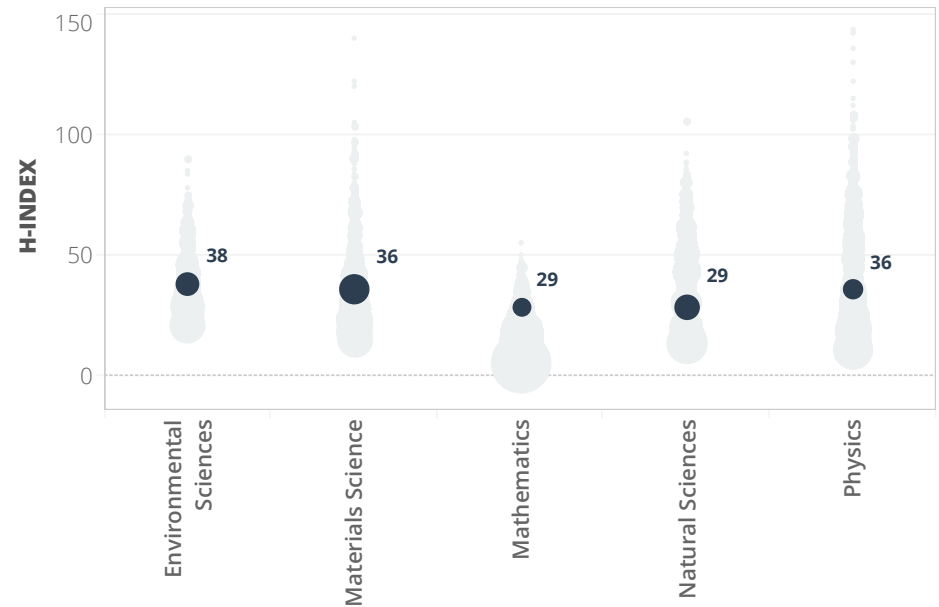
The chart below presents the relationship between **the institution's counts of papers and citations** and the respective global means by subject. A ratio of 1.0 represents a performance on a par with the global average.



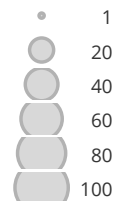
In 2019, Mathematics delivered the best relative results in terms of citations for Universitat Politècnica de Catalunya, representing roughly 1.4 times the global average. On the other hand, the institution published 1.6 times the average number of papers indexed globally over the 2012-2016 period.

NATURAL SCIENCES | H-INDEX BY SUBJECT

The chart provides a view of the performance in the h-index, highlighting the **institution's index** against the global performance. The size of the bubble represents the total number of institutions recorded in each performance level.



In the 2019 edition of the rankings, Environmental Sciences was Universitat Politècnica de Catalunya's subject with the highest h-index at 38. This means that 38 papers published by the institution from 2012-2016 attracted at least 38 citations in a six year period (2012-2017).



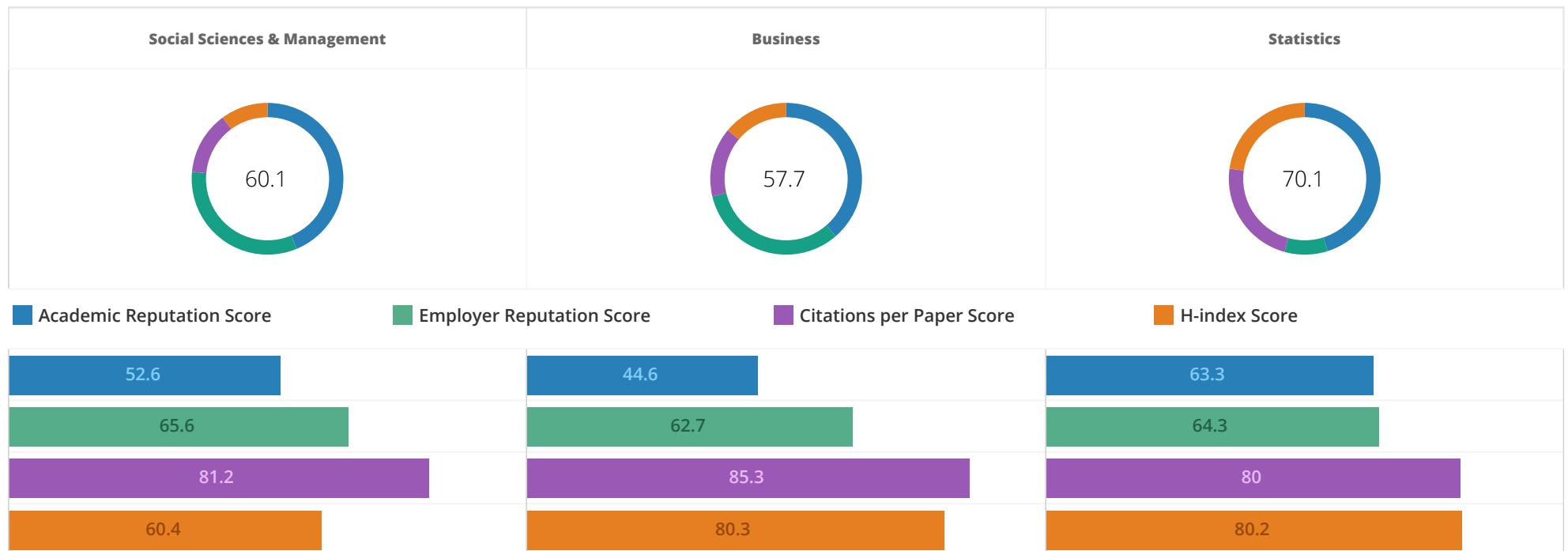
SOCIAL SCIENCES & MANAGEMENT

2019 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

RANKINGS PERFORMANCE - **SOCIAL SCIENCES & MANAGEMENT** AND RELATED SUBJECTS

Social Sciences & Management	Business	Statistics
394	301-350	101-150

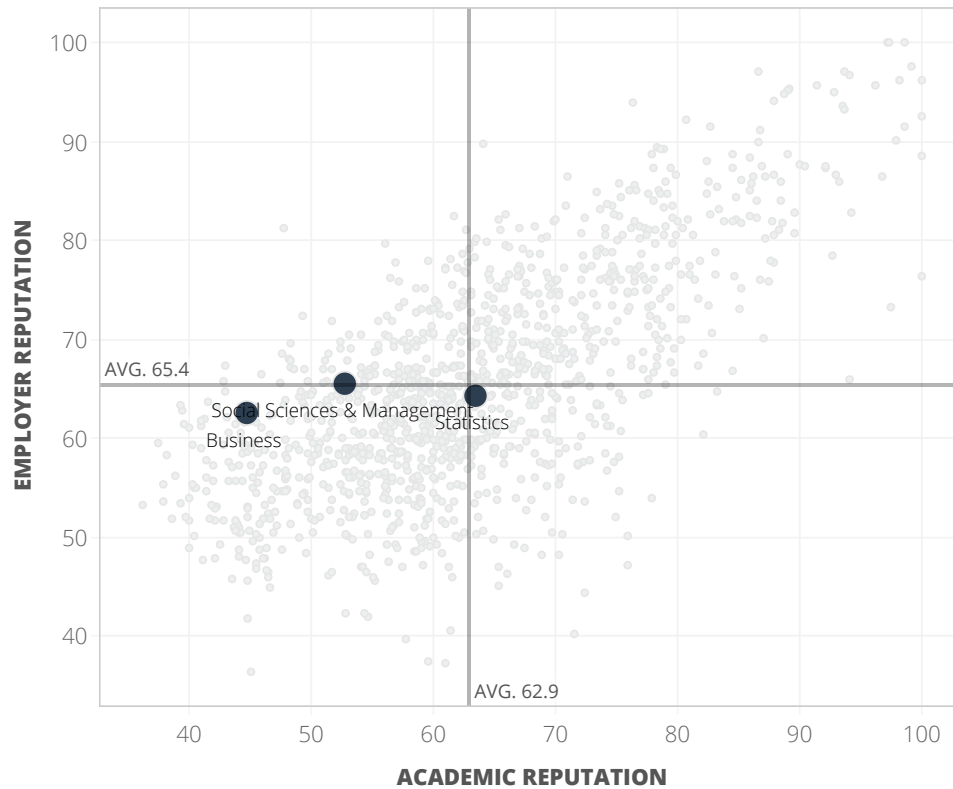
The circles represent the contribution of each indicator to the overall score, as displayed in the centre. The bar charts provide the scores by indicator. The maximum achievable in each of them is 100 points.



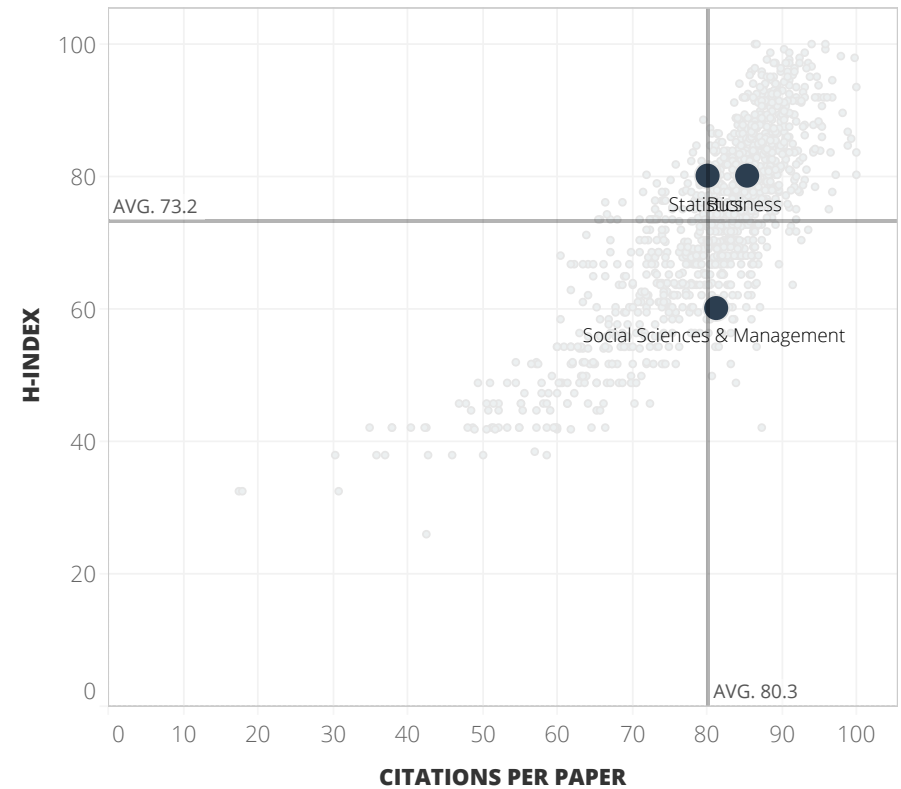
UNIVERSITAT POLITÈCNICA DE CATALUNYA

The following charts provide a view of the **reputational** (left side) and **research-related** (right side) indicators used in the Rankings by Subject. The scatter plots combine two relevant variables, highlighting the institution's performance compared to institutions globally.

SOCIAL SCIENCES & MANAGEMENT | ACADEMIC & EMPLOYER REPUTATION SCORES



SOCIAL SCIENCES & MANAGEMENT | CITATIONS PER PAPER & H-INDEX SCORES

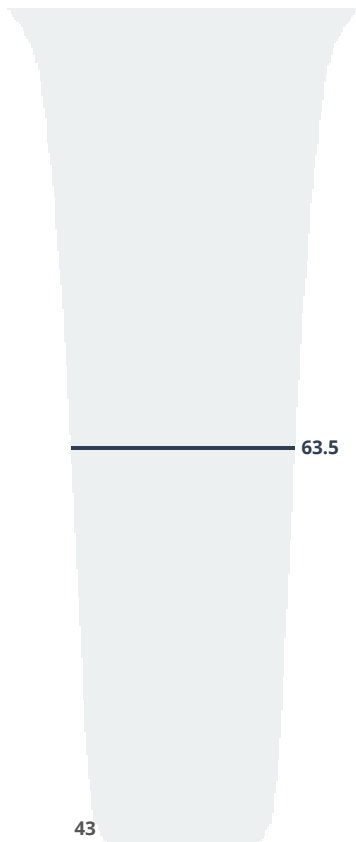


UNIVERSITAT POLITÈCNICA DE CATALUNYA

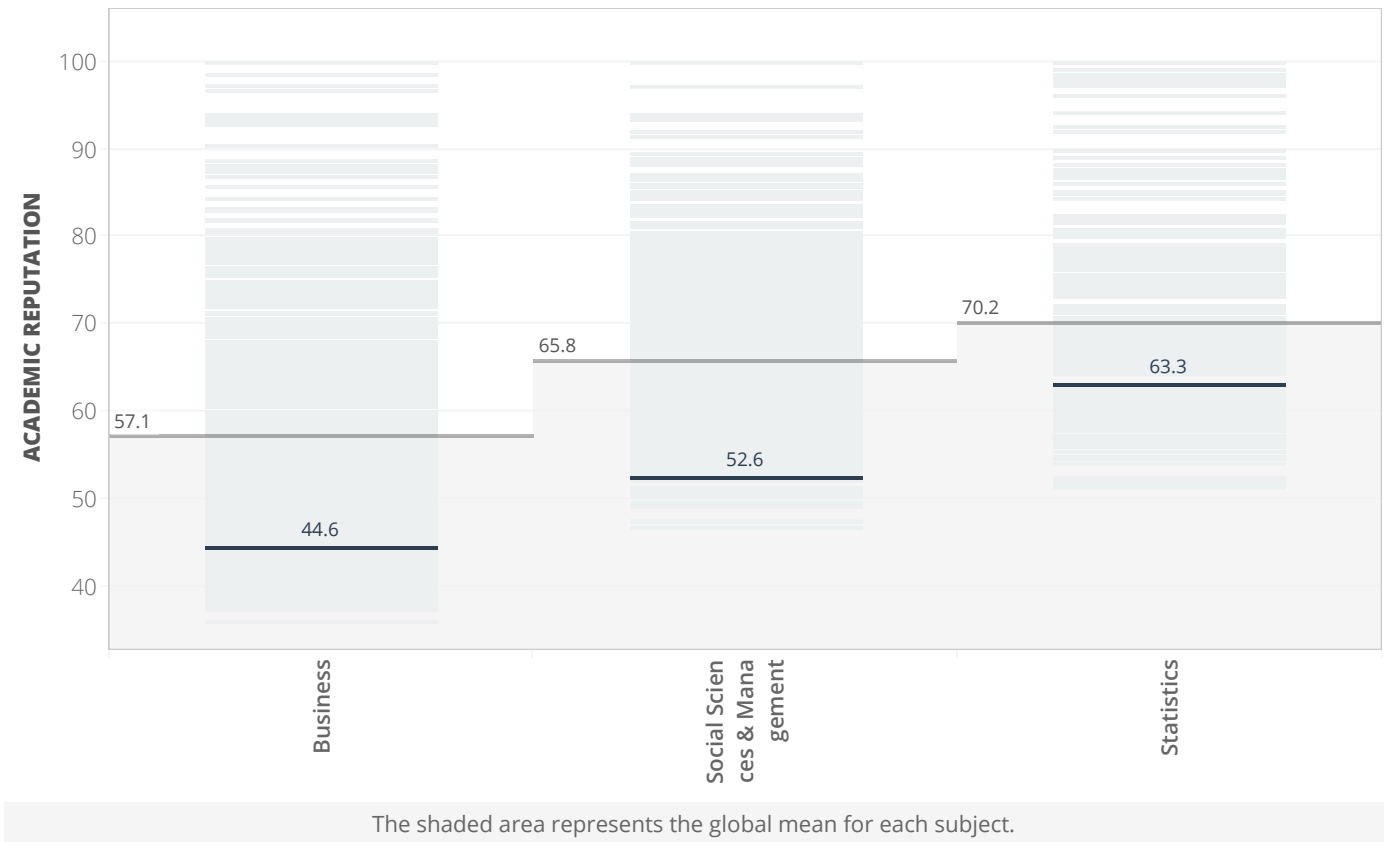
ACADEMIC REPUTATION SCORES

The charts below present the Academic Reputation Scores for the institutions featured in the rankings **Institution's results** | **global mean**.

BROAD SUBJECT AREA



SOCIAL SCIENCES & MANAGEMENT | SPECIFIC SUBJECTS

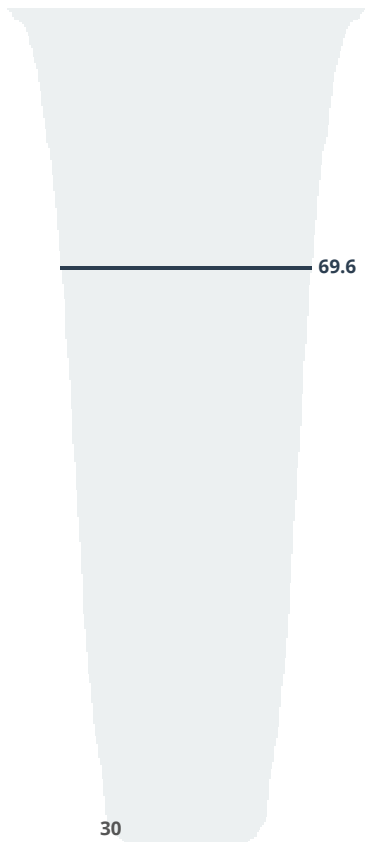


UNIVERSITAT POLITÈCNICA DE CATALUNYA

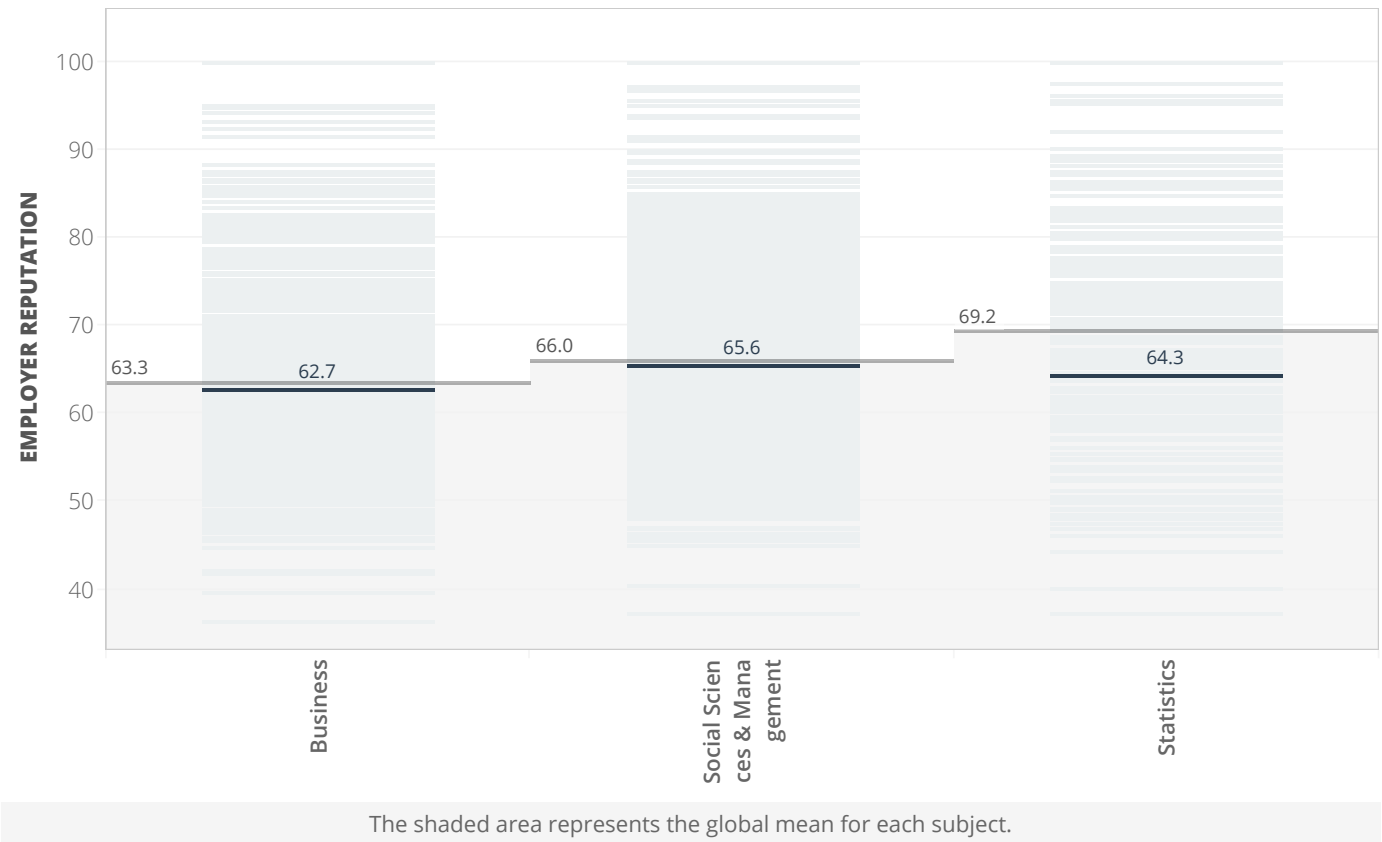
EMPLOYER REPUTATION SCORES

The charts below present the Employer Reputation Scores for the institutions featured in the rankings **Institution's results** | **global mean**.

BROAD SUBJECT AREA



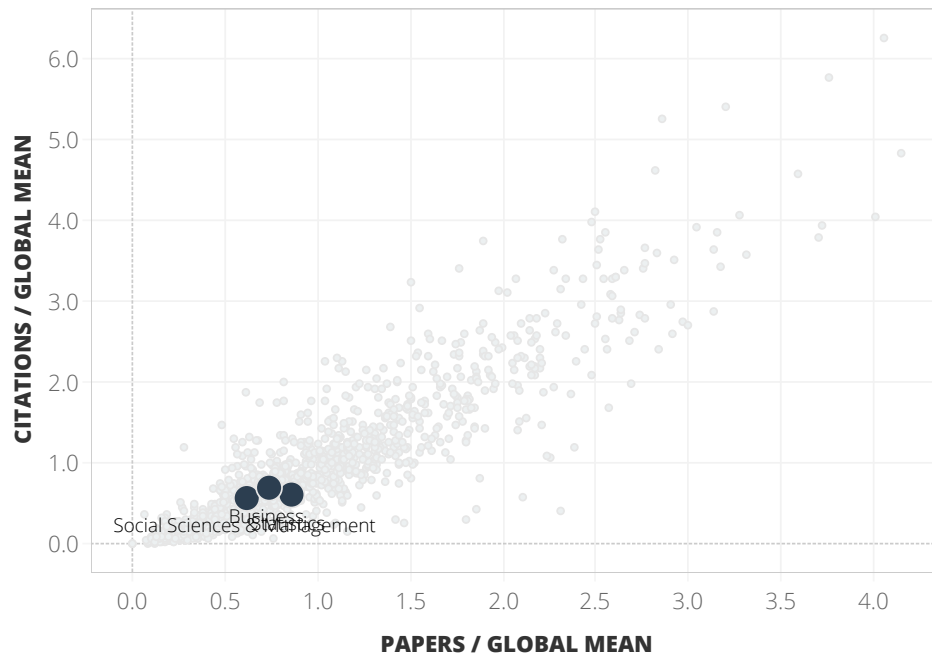
SOCIAL SCIENCES & MANAGEMENT | SPECIFIC SUBJECTS



UNIVERSITAT POLITÈCNICA DE CATALUNYA

SOCIAL SCIENCES & MANAGEMENT | PAPERS AND CITATIONS COUNTS - DIFFERENCE AGAINST GLOBAL MEAN BY SUBJECT

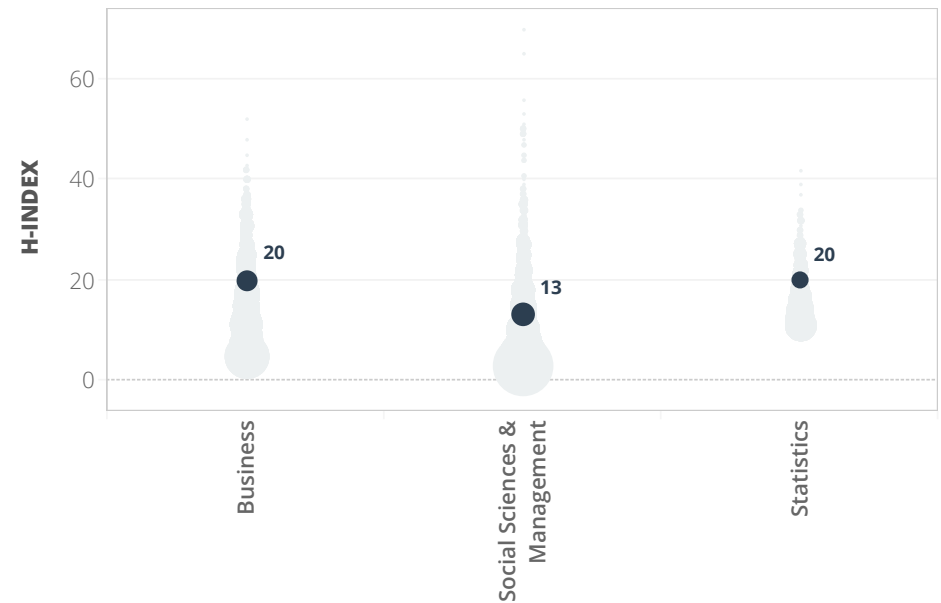
The chart below presents the relationship between **the institution's counts of papers and citations** and the respective global means by subject. A ratio of 1.0 represents a performance on a par with the global average.



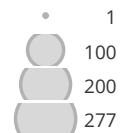
In 2019, Business delivered the best relative results in terms of citations for Universitat Politècnica de Catalunya, representing roughly 0.7 times the global average. On the other hand, the institution published 0.7 times the average number of papers indexed globally over the 2012-2016 period.

SOCIAL SCIENCES & MANAGEMENT | H-INDEX BY SUBJECT

The chart provides a view of the performance in the h-index, highlighting the **institution's index** against the global performance. The size of the bubble represents the total number of institutions recorded in each performance level.



In the 2019 edition of the rankings, Business was Universitat Politècnica de Catalunya's subject with the highest h-index at 20. This means that 20 papers published by the institution from 2012-2016 attracted at least 20 citations in a six year period (2012-2017).



APPENDICES
DEFINITIONS,
WEIGHTINGS, THRESHOLDS
AND HEADLINE FIGURES.

METHODOLOGY: DEFINITIONS & WEIGHTINGS

ACADEMIC REPUTATION

Between 2014 and 2018 QS has collected votes from over 83,000 academics around the world. Each academic counted has given their opinion on universities in their fields of expertises.

EMPLOYER REPUTATION

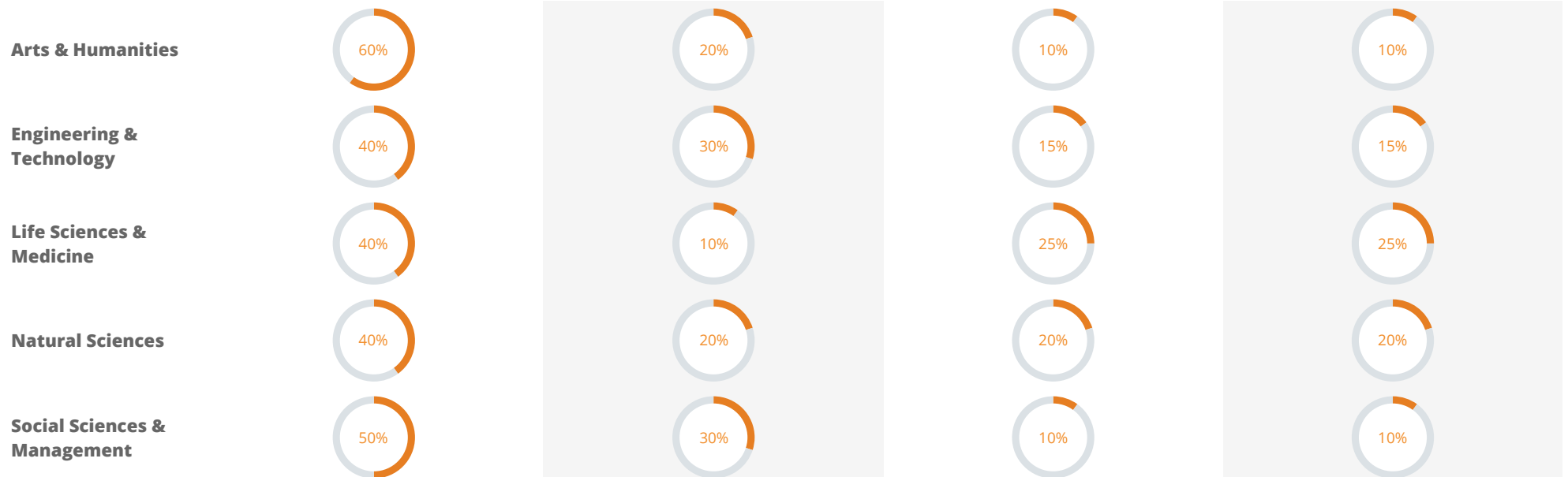
The employability metric is based on employer reputation. Over 42,000 global employer votes have been taken into account between 2014 and 2018 giving us a large pool of information in terms of hiring levels. Employers across all sectors and industries have taken part in the survey and include Facebook, 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

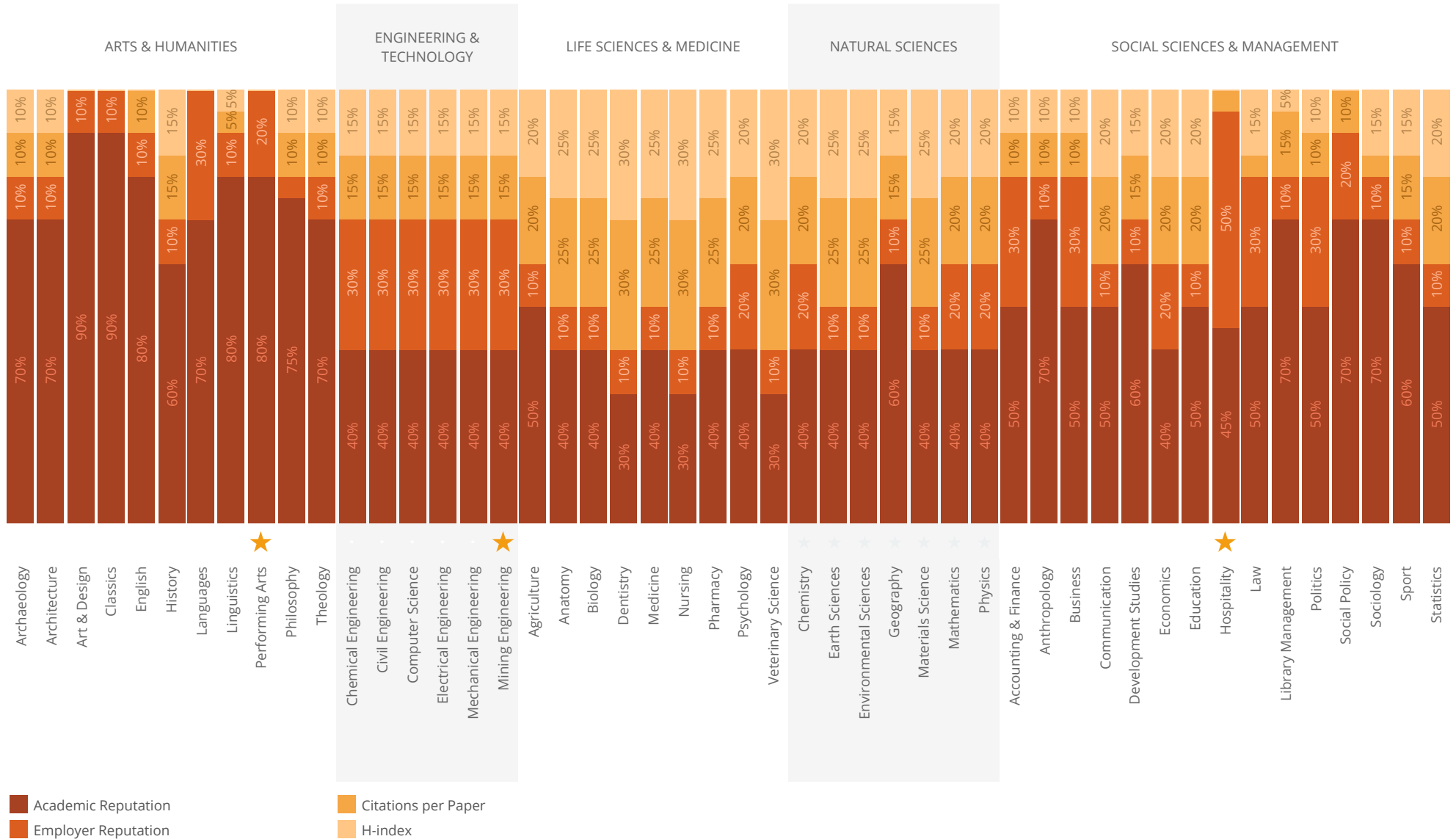
The h-index is an index that attempts to measure both the productivity and impact of the work published by the institutions' scientists and scholars. The index is based on the set of the institution's most cited papers and the number of citations that they have received in other publications.



2019 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 2019 edition of the rankings.

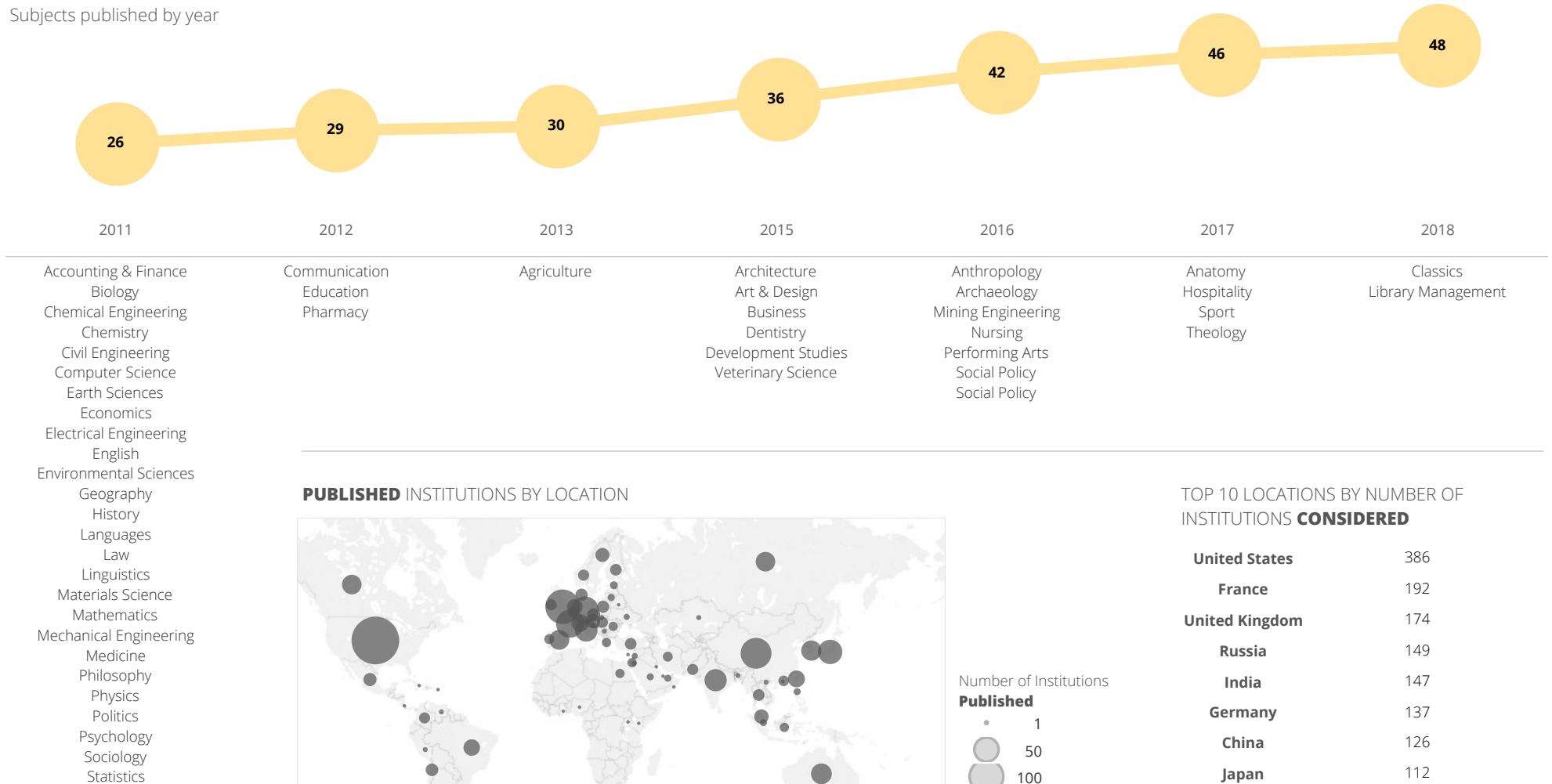
Note: Subjects that are highlighted with *Stars* have changed the weightings in this edition.



2019 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 2019. A list of the considered subjects, grouped by the year of first release, is presented below.

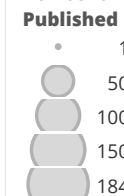
Subjects published by year



PUBLISHED INSTITUTIONS BY LOCATION



Number of Institutions

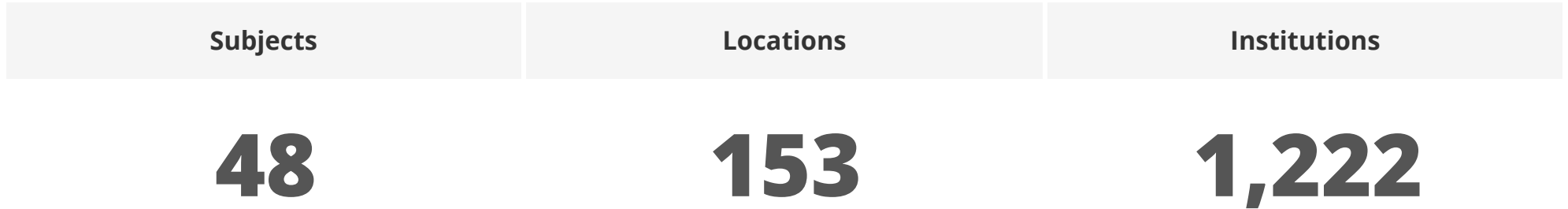


TOP 10 LOCATIONS BY NUMBER OF INSTITUTIONS CONSIDERED

United States	386
France	192
United Kingdom	174
Russia	149
India	147
Germany	137
China	126
Japan	112
South Korea	106
Brazil	92

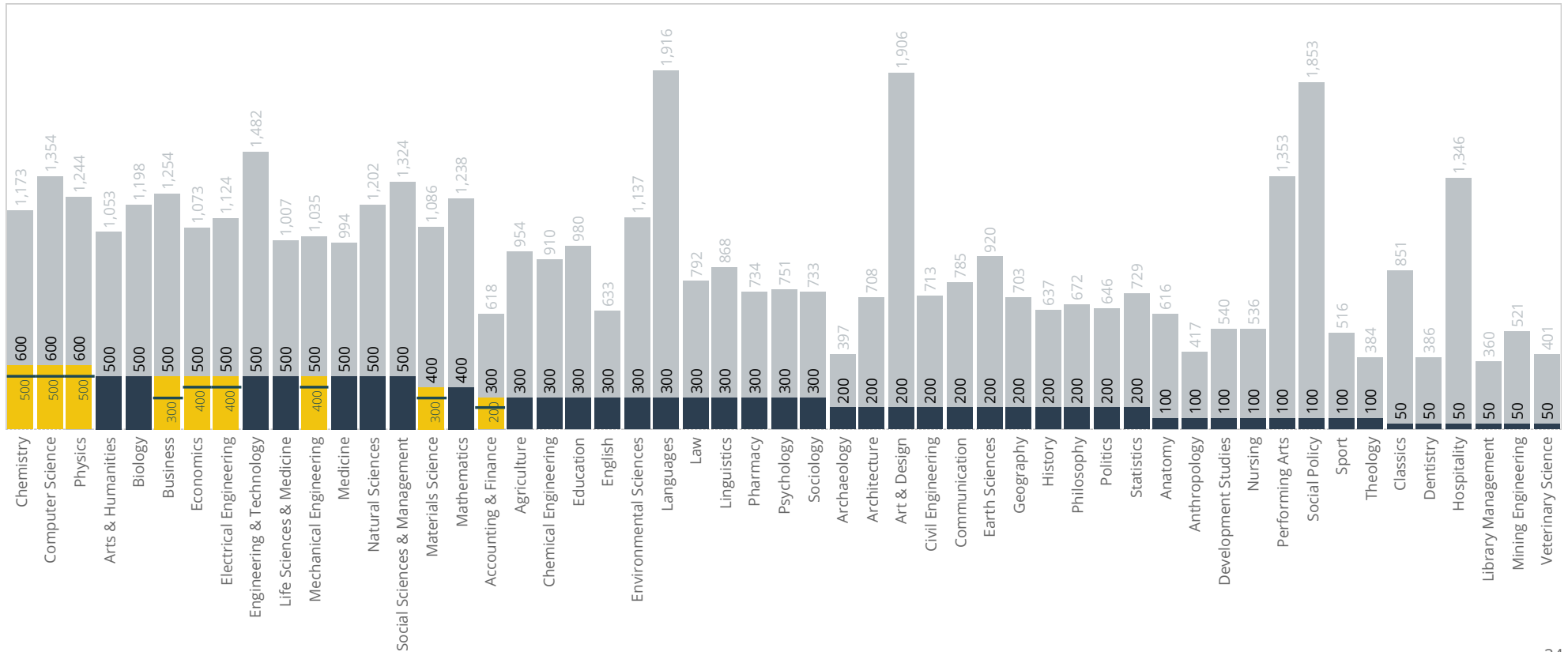
2019 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

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



INSTITUTIONS CONSIDERED AND PUBLISHED BY SUBJECT - YEAR 2019

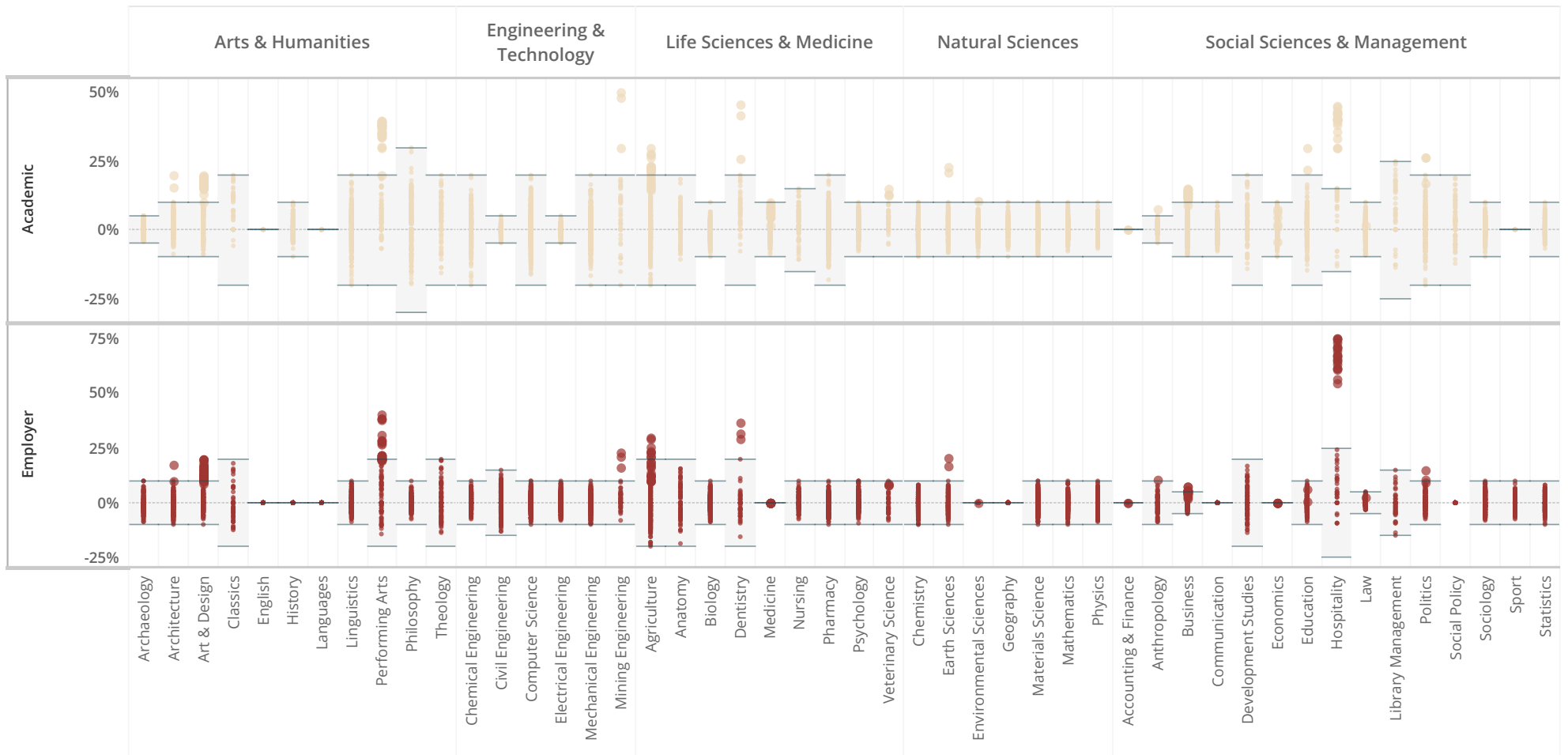
Subjects with **highlight color** have extended publishing ranges.



2019 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



2019 QS WORLD UNIVERSITY RANKINGS BY SUBJECT

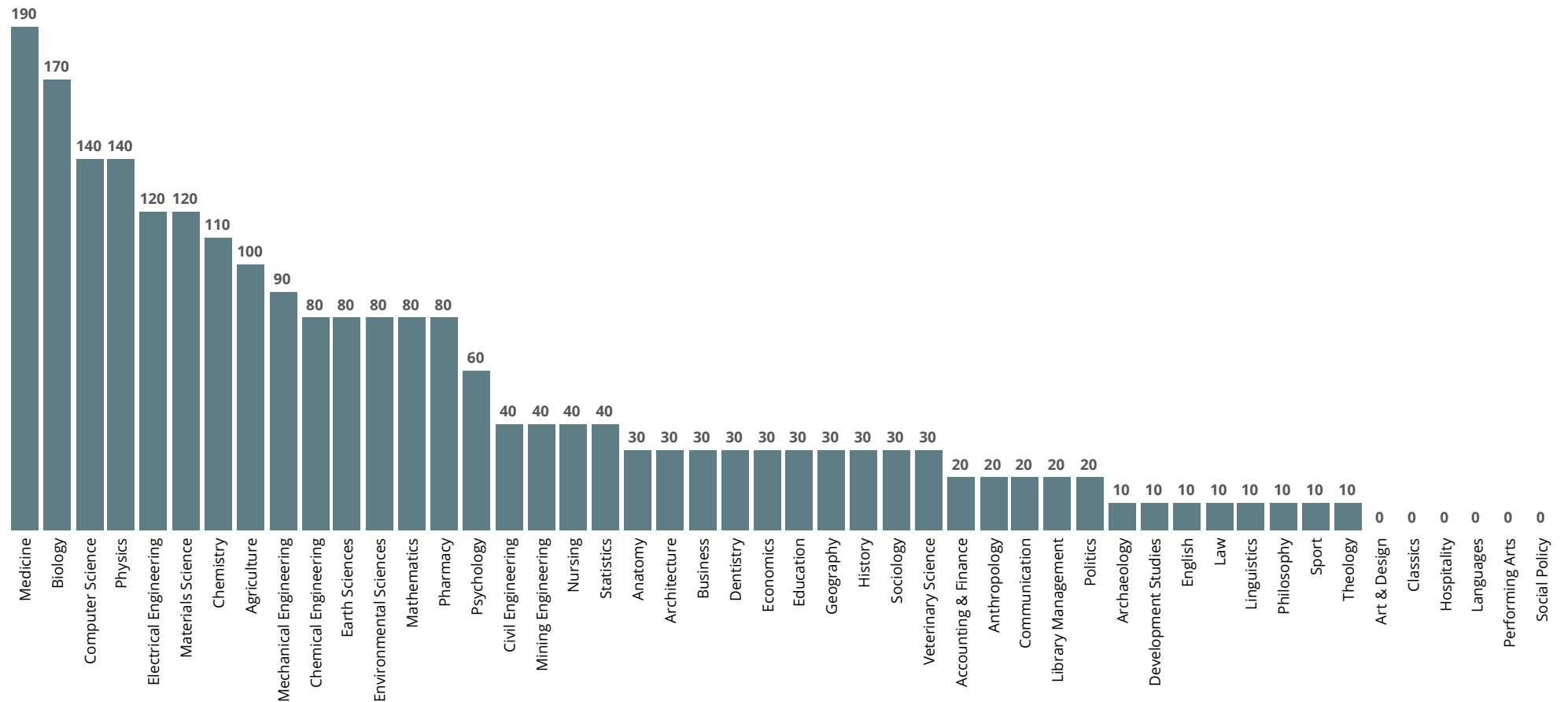
In order to feature in any discipline table, an institution must meet three simple prerequisites:

- 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 2019

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



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