



QS World University Rankings by Subject 2024

Fact File

Universitat Politècnica de
Catalunya · BarcelonaTech
(UPC)

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Welcome to the **QS World University Rankings by Subject 2024**

This file provides the results for your institution in the subjects and broad subject areas where you have been nominated for evaluation in our academic reputation survey, 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 the reputation and research output of almost 5,000 institutions. From this group, 1,559 were ranked across 55 narrow subjects and 5 broad subject areas, creating over 19,100 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 contents on page 3 shows a summary of your scores in broad subject areas you have been analysed in, as well as ranks in the broad subject areas you are to be published in. Page 6 presents a summary of your institution's scores and ranks in narrow subjects.

In the Appendix (page 13) 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 analysed and ranked.

We hope you will find this useful.

**Rankings Team,
QS Institutional Performance Unit**

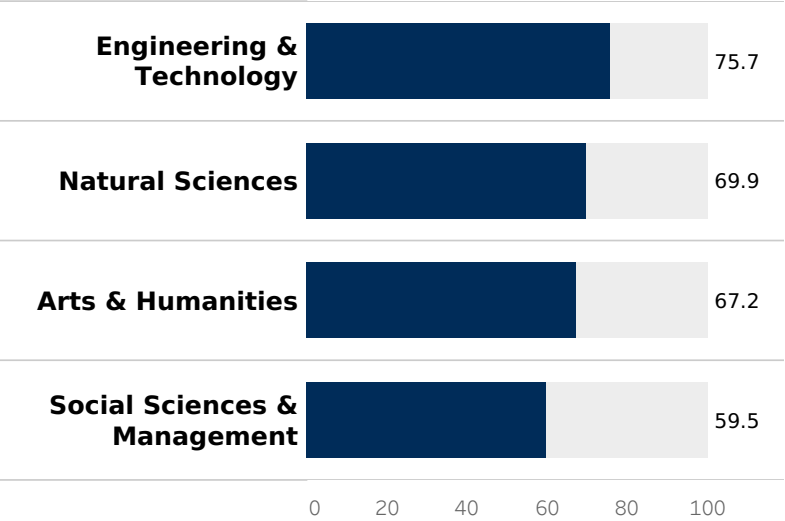
Broad Subject Rankings Summary

Universitat Politècnica de Catalunya · BarcelonaTech (UPC)

	Arts & Humanities	Engineering & Technology	Life Sciences & Medicine	Natural Sciences	Social Sciences & Management
Overall ranks in 2024	=268	=82	-	=200	451-500

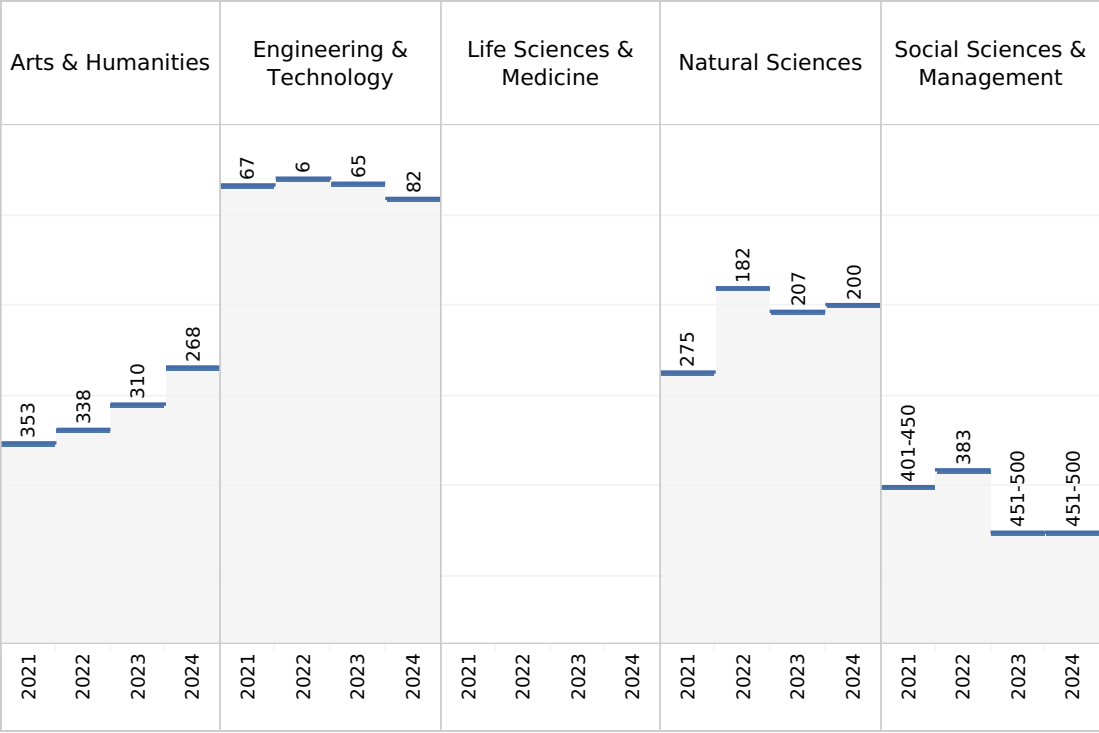
Overall Score by Broad Subject Area (0-100)

Rankings Year 2024



Overall Rank Trend by Broad Subject Area

Rankings Years 2021-2024



Broad Subject Areas - Overall Ranks and Scores by Indicator

Universitat Politècnica de Catalunya · BarcelonaTech (UPC)

This page displays your institution's comprehensive performance by indicator for all broad subject areas where it meets the ranking criteria. Consult the methodology section for details on the minimum requirements for inclusion in the rankings.

	Score (0-100)										Overall Rank		
	Academic		Employer		Citations		H-Index		IRN			Overall	
Arts & Humanities	69.2		64.9		78.5		71.2		29.2		67.2		=268
Engineering & Technology	82.0		63.1		81.4		72.4		85.5		75.7		=82
Life Sciences & Medicine													-
Natural Sciences	65.4		64.2		84.3		75.4		69.3		69.9		=200
Social Sciences & Management	51.6		62.8		81.5		72.4		66.8		59.5		451-500

If you have a displayed score in reputation and research indicators then you met the minimum reputation and research threshold for consideration. In this case, the only reason you are not ranked is that your score is not high enough to receive a published rank.

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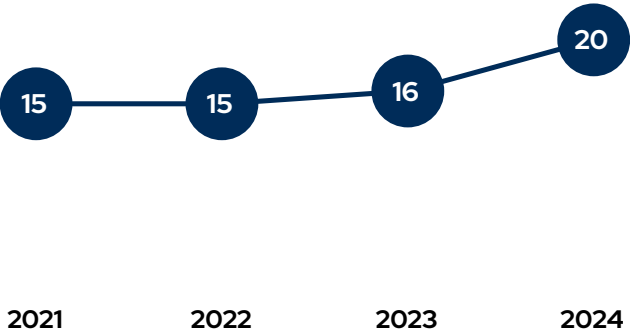
QS

Narrow Subject Rankings Overview

Universitat Politècnica de Catalunya · BarcelonaTech (UPC)

Subjects Analysed	Subjects Ranked	Top 100 Subjects
26	20	9

Number of Ranked Subjects



Number of Subjects by Performance Groups - Trend Over Time

	2021	2022	2023	2024
Top 50	3	3	2	3
Top 100	5	6	8	9
Top 200	12	13	13	15
Top 300	14	14	15	17
Top 400	15	15	15	18
Top 500	15	15	16	20

Top Subjects - Universitat Politècnica de Catalunya · BarcelonaTech (UPC) - QS Subject Rankings 2024

21-40 History of Art	26 Architecture	=40 Civil Engineering	51-100 Art & Design
51-100 Petroleum Engineering			

Narrow Subjects - Overall Rank and Scores by Indicator

If you have a displayed score in reputation and research indicators, then you have met the minimum threshold for consideration in these categories. If you are not ranked, it is because your score is not high enough to qualify for a published rank.

		Rank	Scores (0-100)				
			Overall	Academic	Employer	Citations	H-Index
Arts & Humanities	Archaeology	-					
	Architecture / Built Environment	26	76.1	75.1	75.7	80.0	79.6
	Art & Design	51-100	60.3	59.3	68.8		
	Classics & Ancient History	-					
	English Language & Literature	-					
	History	-					
	History of Art, Architecture & Design	21-40	77.7	79.6	60.9		
	Linguistics	-					
	Modern Languages	-					
	Music	-	22.1	27.6			
	Performing Arts	-					
	Philosophy	-					
	Theology, Divinity & Religious Studies	-					
Social Sciences & Management	Accounting & Finance	-					
	Anthropology	-					
	Business & Management Studies	401-450	59.4	51.1	60.7	78.5	77.5
	Communication & Media Studies	-	53.6	49.2	61.4	64.6	49.7
	Development Studies	-	55.5	54.3	46.7	68.1	53.4
	Economics & Econometrics	451-500	55.1	41.9	61.4	71.0	59.4
	Education	-					
	Hospitality & Leisure Management	-					
	Law	-					
	Library & Information Management	-					
	Marketing	-					
	Politics & International Studies	-					
	Social Policy & Administration	-					
	Sociology	-					
	Sports-related Subjects	-	36.5	27.3	48.1	55.8	46.2
	Statistics & Operational Research	101-150	72.8	68.8	65.5	81.3	78.1

Narrow Subjects - Overall Rank and Scores by Indicator (continued)

Rank			Scores (0-100)					
			Overall	Academic	Employer	Citations	H-Index	IRN
Engineering & Technology	Computer Science & Information Systems	=88	69.7	64.9	66.2	76.3	75.6	97.5
	Data Science and Artificial Intelligence	-	61.6	53.5	56.7	78.0	76.9	
	Engineering - Chemical	151-200	67.4	59.9	68.8	82.4	72.8	67.3
	Engineering - Civil & Structural	=40	78.7	82.8	71.4	81.9	78.9	
	Engineering - Electrical & Electronic	=66	74.9	69.6	74.2	85.1	79.0	86.4
	Engineering - Mechanical, Aeronautical & ..	72	74.2	69.8	71.6	82.2	78.1	95.3
	Engineering - Mineral & Mining	-	62.7	47.5	64.7	83.2	78.4	
	Petroleum Engineering	51-100	68.2	58.9	64.5	84.3	84.3	
Life Sciences & Medicine	Agriculture & Forestry	251-300	56.2	48.4	61.9	75.1	65.9	46.6
	Anatomy & Physiology	-						
	Biological Sciences	351-400	55.7	44.1	62.4	79.2	55.7	48.2
	Dentistry	-						
	Medicine	-						
	Nursing	-						
	Pharmacy & Pharmacology	-						
	Psychology	-						
	Veterinary Science	-						
Natural Sciences	Chemistry	201-250	65.1	62.7	63.8	81.2	56.3	66.3
	Earth & Marine Sciences	151-200	73.0	67.7	62.2	83.8	82.8	63.9
	Environmental Sciences	151-200	74.4	67.9	70.8	89.1	77.4	54.4
	Geography	-						
	Geology	-						
	Geophysics	-						
	Materials Science	101-150	72.9	68.0	70.0	77.0	74.0	85.1
	Mathematics	95	71.7	67.3	68.1	78.8	79.5	73.7
	Physics & Astronomy	151-200	69.6	59.8	67.0	87.1	82.0	69.4

Receiving a score for a particular subject does not guarantee that we have checked for its presence at your institution. These checks are only carried out for institutions with a score high enough to receive a published rank in the subject. However, we encourage institutions to inform us about their subject coverage proactively:

<https://qs-hub2.qs.com/#>

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Narrow Subjects - Rank Trend

The table below presents the overall ranks in each subject in the 2021-2024 period.
Note that only the published ranks are provided. Institutions must meet minimum requirements to be considered in each subject.

		2021	2022	2023	2024
Arts & Humanities	Arts & Humanities	353=	338=	310=	=268
	Archaeology	-	-	-	-
	Architecture / Built Environment	20	19	22	26
	Art & Design	101-150	101-150	101-150	51-100
	Classics & Ancient History	-	-	-	-
	English Language & Literature	-	-	-	-
	History	-	-	-	-
	History of Art			-	21-40
	Linguistics	-	-	-	-
	Modern Languages	-	-	-	-
	Music				-
	Performing Arts	-	-	-	-
	Philosophy	-	-	-	-
	Theology, Divinity & Religious Studies	-	-	-	-
Social Sciences & Management	Social Sciences & Management	401-450	383=	451-500	451-500
	Accounting & Finance	-	-	-	-
	Anthropology	-	-	-	-
	Business & Management Studies	301-350	351-400	401-450	401-450
	Communication & Media Studies	-	-	-	-
	Development Studies	-	-	-	-
	Economics & Econometrics	-	-	-	451-500
	Education	-	-	-	-
	Hospitality & Leisure Management	-	-	-	-
	Law	-	-	-	-
	Library & Information Management	-	-	-	-
	Marketing			-	-
	Politics & International Studies	-	-	-	-
	Social Policy & Administration	-	-	-	-
	Sociology	-	-	-	-
	Sports-related Subjects	-	-	-	-
	Statistics & Operational Research	101-150	101-150	51-100	101-150

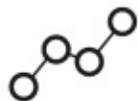
Narrow Subjects - Rank Trend (continued)

The table below presents the overall ranks in each subject in the 2021-2024 period.

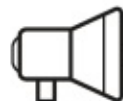
		2021	2022	2023	2024
Engineering & Technology	Engineering & Technology	67=	60	65=	=82
	Computer Science & Information Systems	79=	86=	82	=88
	Data Science and Artificial Intelligence			-	-
	Engineering - Chemical	151-200	101-150	151-200	151-200
	Engineering - Civil & Structural	29	29	35	=40
	Engineering - Electrical & Electronic	46=	52=	58=	=66
	Engineering - Mechanical, Aeronautical & Ma..	81	78=	81=	72
	Engineering - Mineral & Mining	-	49	51-70	-
	Petroleum Engineering	-	-	-	51-100
Life Sciences & Medicine	Life Sciences & Medicine	-	-	-	-
	Agriculture & Forestry	251-300	251-300	251-300	251-300
	Anatomy & Physiology	-	-	-	-
	Biological Sciences	-	-	-	351-400
	Dentistry	-	-	-	-
	Medicine	-	-	-	-
	Nursing	-	-	-	-
	Pharmacy & Pharmacology	-	-	-	-
	Psychology	-	-	-	-
Natural Sciences	Veterinary Science	-	-	-	-
	Natural Sciences	275=	182=	207=	=200
	Chemistry	-	-	-	201-250
	Earth & Marine Sciences	151-200	-	201-230	151-200
	Environmental Sciences	101-150	101-150	151-200	151-200
	Geography	-	-	-	-
	Geology	-	-	-	-
	Geophysics	-	-	-	-
	Materials Science	151-200	101-150	101-150	101-150
	Mathematics	123=	113=	100=	95
	Physics & Astronomy	251-300	151-200	151-200	151-200

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Methodology - Indicator Definitions

The QS World University Rankings by Subject utilise a set of indicators with variable weights. It's important to note that not every indicator is used across all subjects, depending on the relevance of the available data.

Academic Reputation

The Academic Reputation Index, central to the QS World University Rankings® and pivotal in the QS Subject Rankings, assesses global university performance. Launched by QS in 2004, this key metric draws on the insights of international academics to identify institutions that exemplify academic excellence. Their collective expertise sheds light on research quality, strategic partnerships, innovation, and the broader educational and societal influence of these universities.

Employer Reputation

The Employer Reputation metric stands out in global assessments by uniquely emphasizing employability—an aspect often overlooked by other major rankings. As the sole ranking to prioritize this critical facet of higher education, we recognize that for most undergraduates, the university's standing among employers is a decisive factor in their post-graduation success.

Citations per Paper

The Citations per Paper metric reflects the research impact and quality of institutions, based on a five-year publication and six-year citation window. For Subject Rankings, citations from specialized journals are doubly weighted, while institutions with fewer publications face adjusted citation counts to maintain equitable outcomes.

H-Index

The h-index quantifies a researcher's scholarly output and influence by tallying their most-cited works and the corresponding citation count. This index can extend to collective bodies like departments, institutions—our indicator's focus—or even entire countries and academic journals.

International Research Network (IRN)

The International Research Network (IRN) assesses an institution's global engagement by tracking its international research partnerships and resulting co-authored publications. Leveraging the Margalef Index, widely used in the Environmental Sciences, the IRN reflects the diversity and scope of an institution's research connections and the effectiveness of establishing these global networks.

Indicator Weightings by Broad Subject Area



More details about the QS rankings methods can be found at support.qs.com

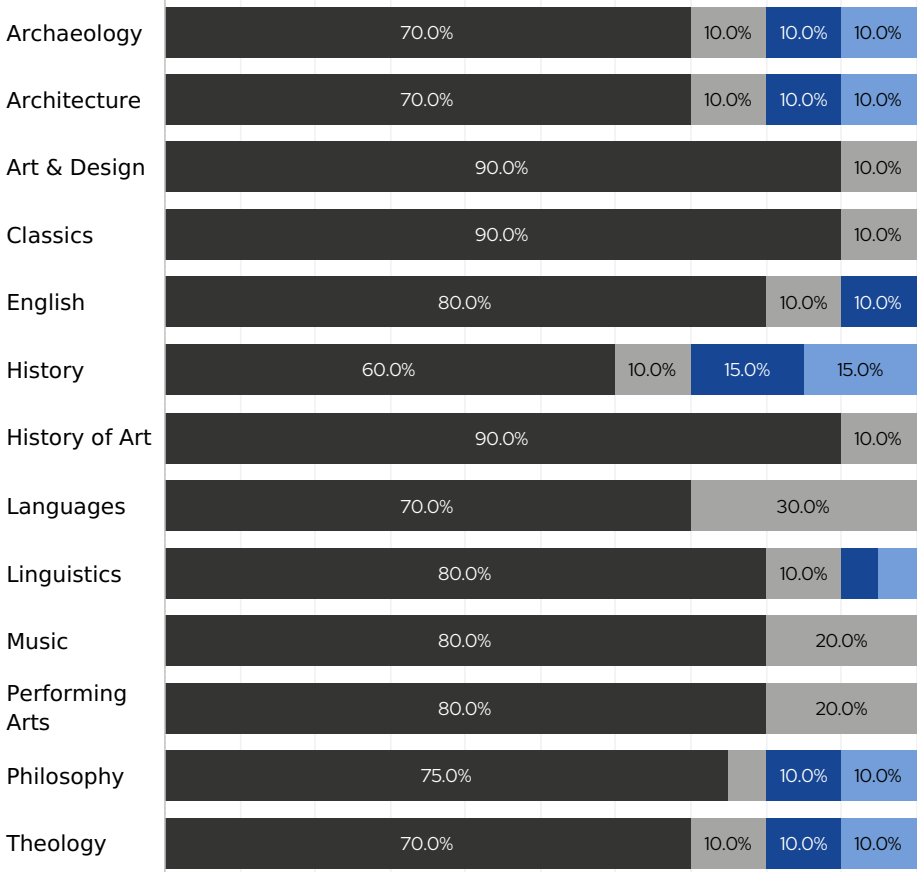
- Academic Reputation
- Employer Reputation
- Citations per Paper
- H-Index
- IRN

Indicator Weightings by Narrow Subject

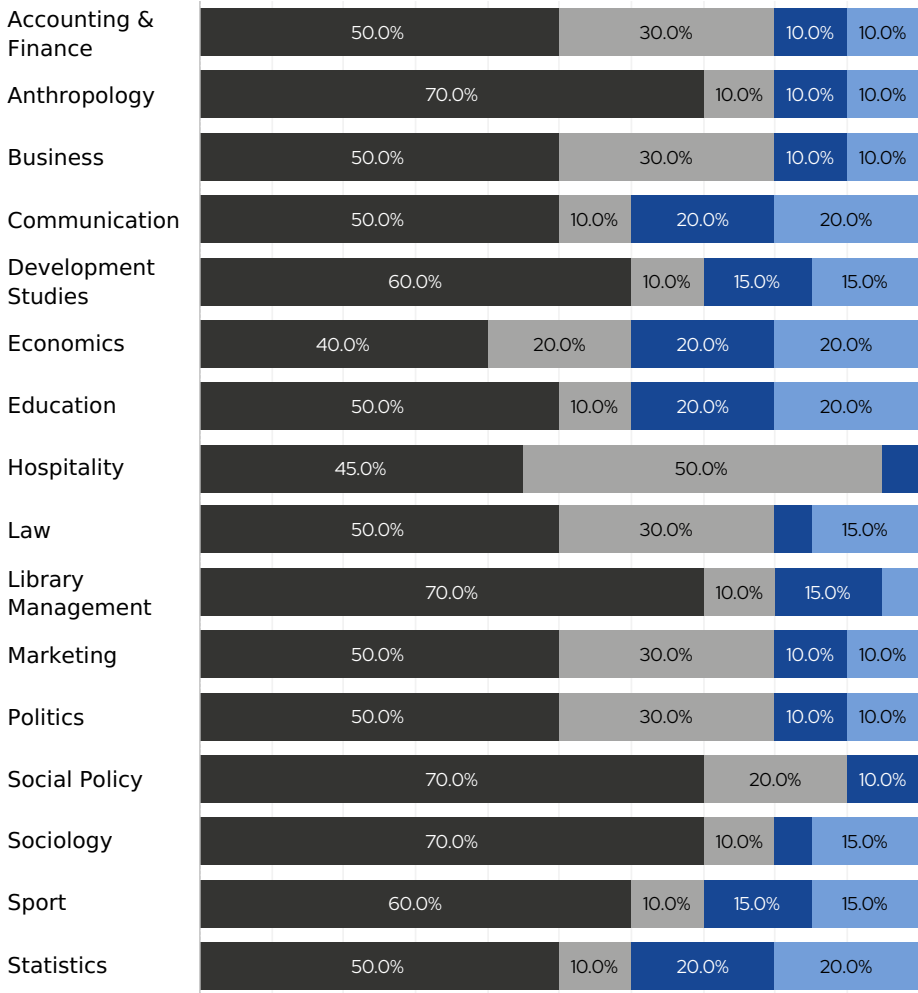
QS uses a variable approach to the weightings for the different subjects. The chart below provides details of the combinations used in the 2024 edition of the rankings.

- Academic Reputation
- Employer Reputation
- Citations per Paper
- H-Index

Arts & Humanities

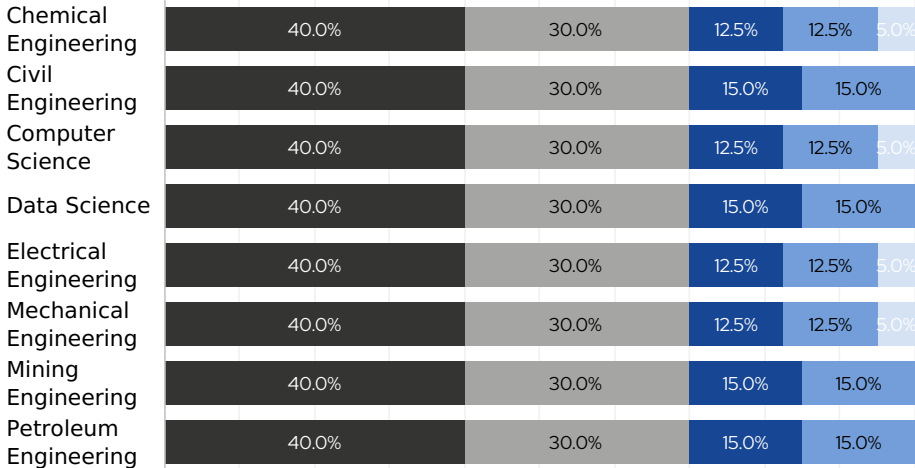


Social Sciences & Management

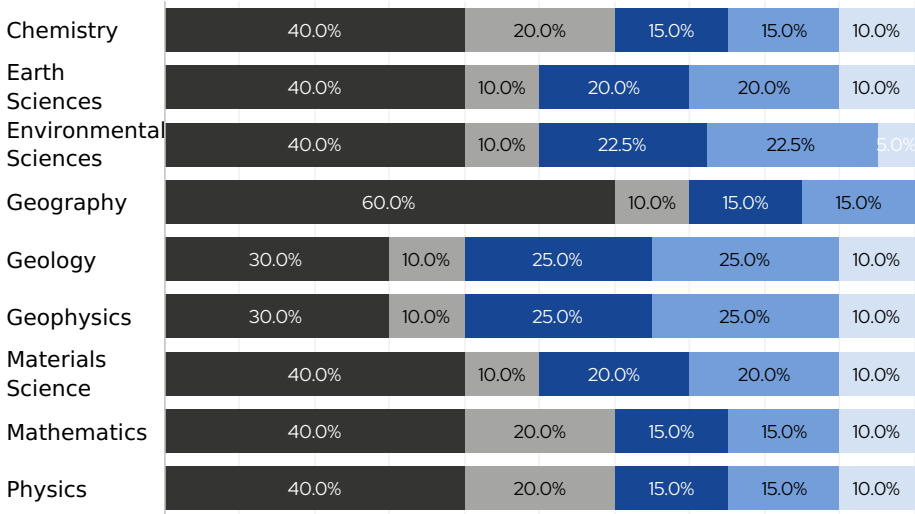


Indicator Weightings by Narrow Subject

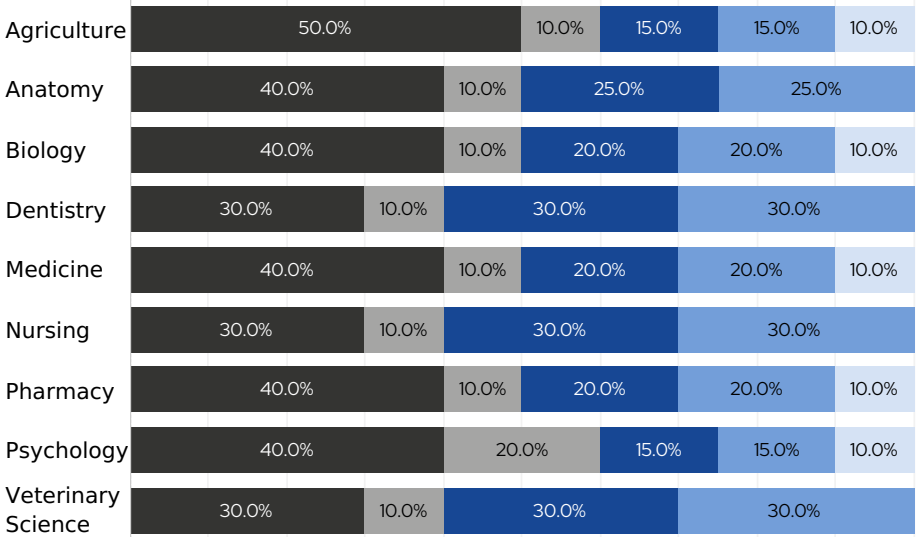
Engineering & Technology



Natural Sciences



Life Sciences & Medicine

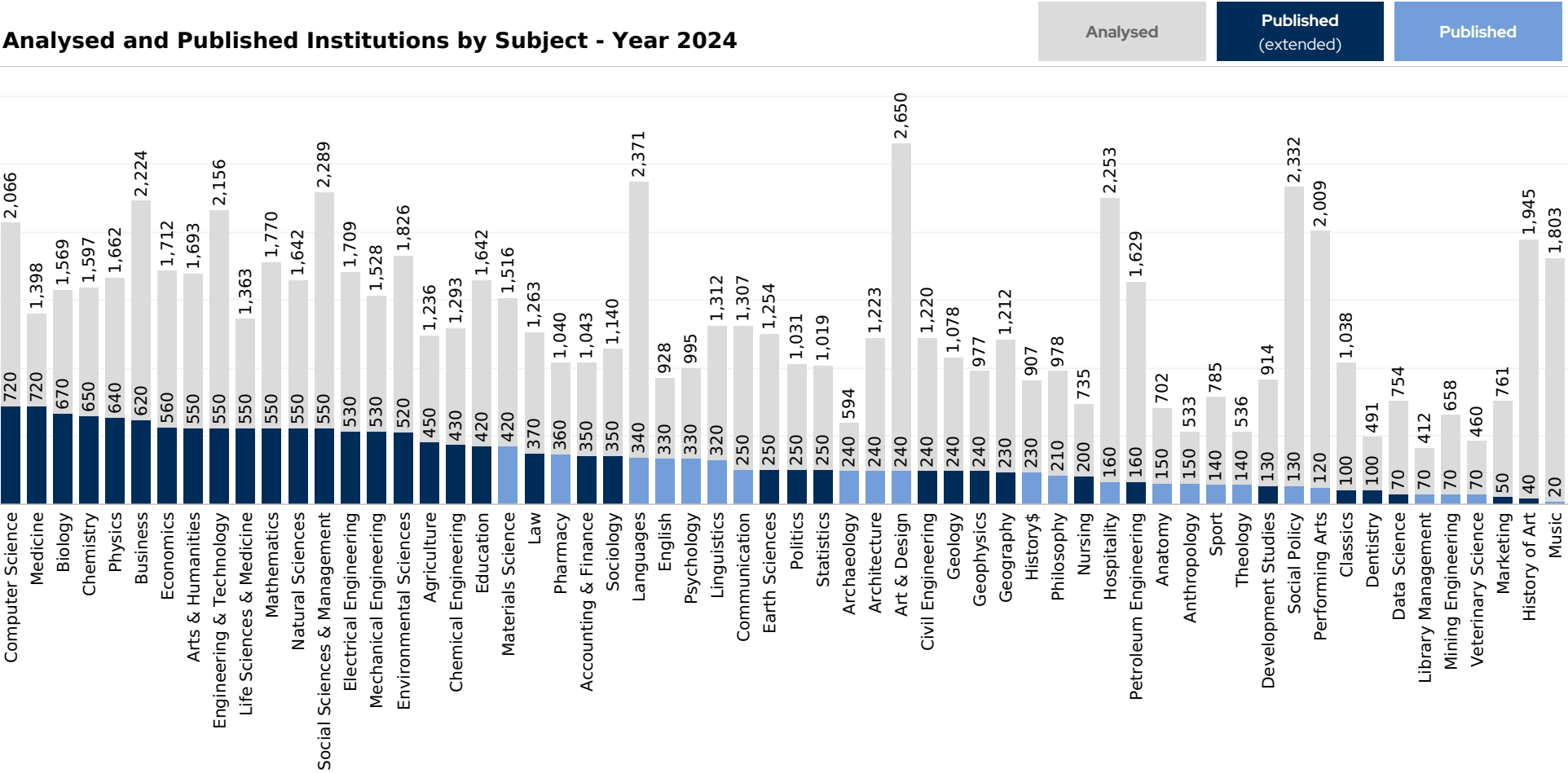


- Academic Reputation
- Employer Reputation
- Citations per Paper
- H-Index
- IRN

Institutions Evaluated and Ranked by Subject

Subjects Published	Locations Covered	Institutions Analysed	Institutions Published
55	149	4,989	1,559

Analysed and Published Institutions by Subject - Year 2024

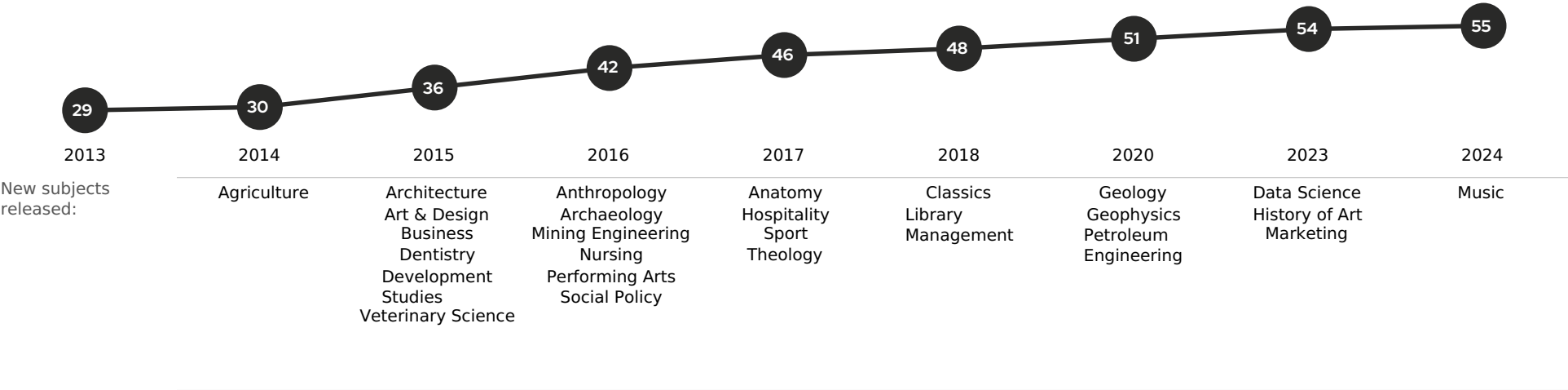


Darker blue indicates extended published ranges in 2024

Evolution in Published Subjects

The **QS World University Rankings® by Subject** ranks the world’s top universities in individual subject areas, covering 55 disciplines as of 2024. A list of the considered subjects, grouped by the year of first release, is presented below.

The chart below shows the evolution in the total number of published narrow subjects.



Published Institutions by Location



Top Locations by number of ranked institutions

United States	213
United Kingdom	103
China (Mainland)	101
France	74
India	69
Germany	60
Italy	56
Russia	55
Japan	44
Spain	37

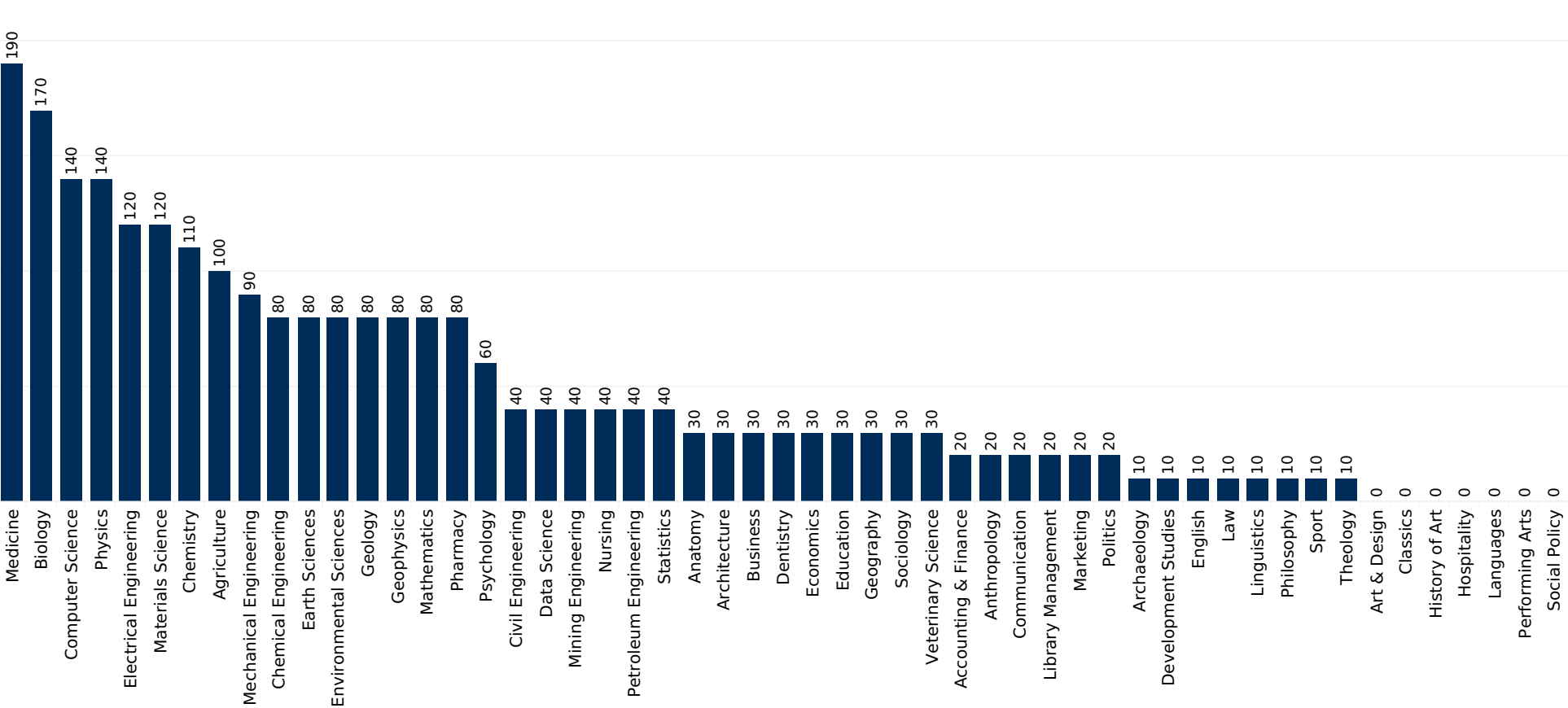
Minimum Research Activity Required

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.

Number of Papers Threshold by Subject - Rankings Year 2024



QS Conferences 2024

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8-11 Feb | Chennai, India
qshesummits.com/indiasummit



QS Higher Ed Summit: Middle East
27-29 Feb | Ras Al Khaimah, UAE
qshesummits.com/middle-east



QS China Summit
17-18 Apr | Shanghai, China
qshesummits.com/china



EduData Summit
4-5 Jun | Washington DC, USA
edudatasummit.com



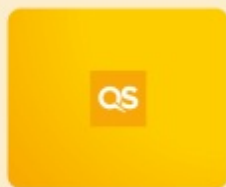
QS Higher Ed Summit: Europe
11-12 Jul & 10-11 (QS MoveOn Conference) | Barcelona, Spain
qshesummits.com/europe



QS Africa Forum
9-10 Sep | Accra, Ghana
qshesummits.com/qs-africa-forum-2024



QS Higher Ed Summit: Americas
2-3 Oct | Bogota, Colombia
qshesummits.com/americas



QS Arab Forum
9-10 Oct



QS Higher Ed Pre-Summit: Asia Pacific
1 Nov | Al-Farabi, Kazakhstan
qshesummits.com/asia-pacific



QS Higher Ed Summit: Asia Pacific
5-7 Nov | Macau, SAR China
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QS Higher Ed Post-Summit: Asia Pacific
8 Nov | Hong Kong, SAR China
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