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Introduction

Citation Analysis is a powerful and widely accepted tool designed to evaluate the research activities of scientists, universities, institutions and scientific journals over the world. It is applied to make essential decisions about various types of stakeholders (i.e., students, faculty, researchers, analysts, and program managers) worldwide.

Islamic World Science Citation Center (ISC) has been approved by *the Islamic Conference of the Ministers of Higher Education and Scientific Research (ICMHESR)* in a meeting held by ISESCO in 2008 in Baku, capital of Azerbaijan.

ISC as the Islamic World's leading source of scholarly research data, compiles, analyzes, and shares high-quality, multidisciplinary scientific information. ISC's major commission is to assess the research performance of scientists, universities, institutions and scientific journals of the Islamic countries and to provide necessary grounds for enhancing the quality of research and establishing an efficient scientific network in the Islamic World. Some recent activities of ISC are:

- ▶ ISC evaluates and ranks the researchers, universities, countries, journals, research domains etc. in OIC countries based on their scientific impact.
- ▶ ISC provides various service for scientific promotion in OIC countries including training workshops in Scientometrics.
- ▶ ISC helps OIC countries to know about the state of the art of the science in his country through mapping the scientific plus points and weakness.
- ▶ ISC maps the science in the OIC countries to help them for making scientific improvement plans.

Dr. Mohammad Javad Dehghani,
ISC President

The State- of - the-Art of scientific production in the World, OIC and Malaysia

Since one of the important purposes of ISC is mapping fields of science and technology and qualitative and quantitative assessment of scientific publications' in Islamic countries, cooperation of OIC with ISC is definitely necessary. The 16-year (2000-2016) growth of scientific outputs of the world according to the data retrieved from Thomson Reuters Web of Science (ISI) reveals that, Islamic countries' share of world's total number of scientific publications has increased remarkably.

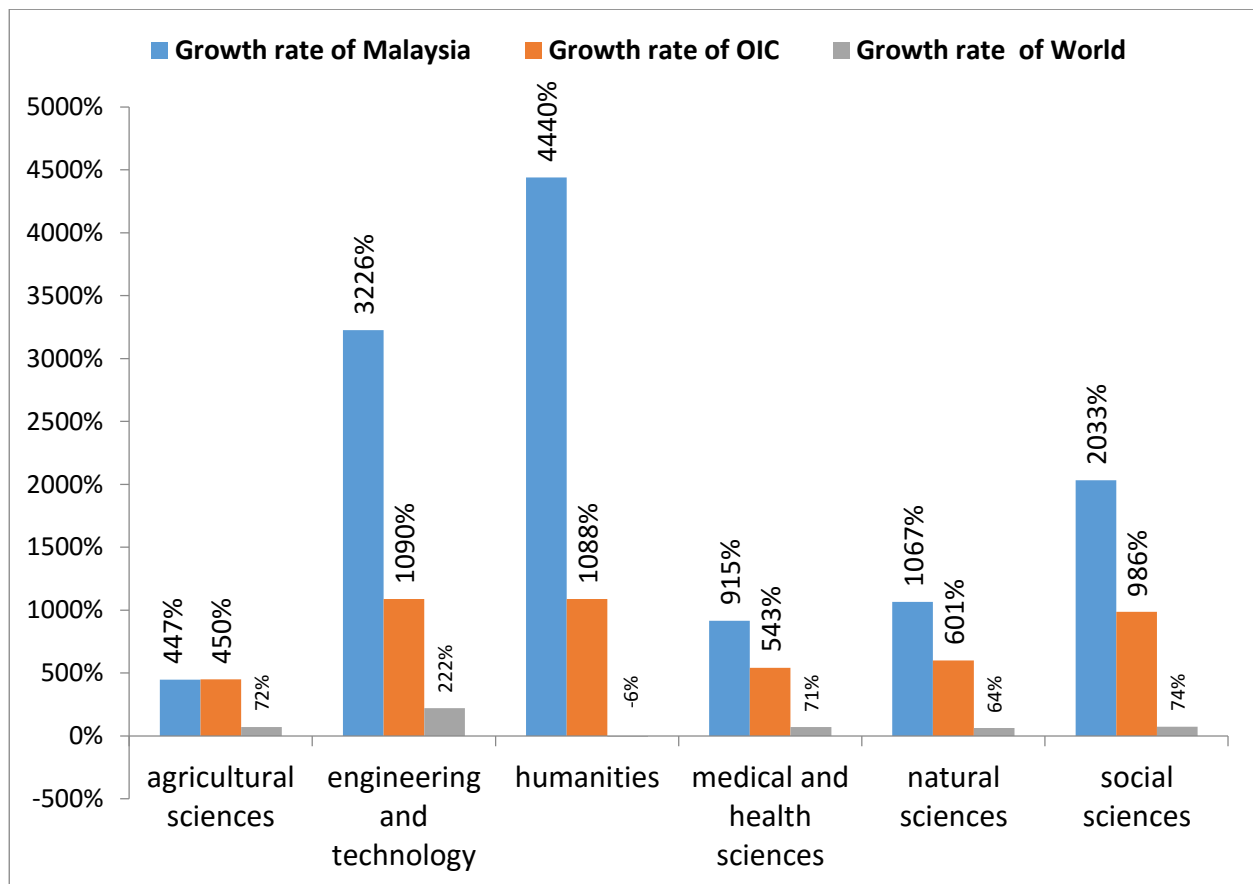
The world's growth in scientific publication over the last 16 years was 77%, OIC's progress was 666%, which is 8 times more than the world's average. Malaysia's growth in scientific publication in the same period is 1374%, which is 18 times more than the world's average.

It is noteworthy that in 2000 OIC's share of world's total number of scientific publications was 1.8%, while in 2016 it has reached 7.9%, which is a remarkable growth. Also Malaysia's share of world's total number of publication in 2000 was 0.1% while in 2016 it has reached 0.8%.

Since 2000-2016, world's growth in agricultural sciences was 72%, while OIC's and Malaysia's growth rate respectively was 450% and 447% . In engineering and technology, world's progress was 222%, while OIC's growth in this field was 1090%. With regard to humanities, world's publications progress rate was - 6% but OIC improvement was 1088%. Similarly, world's growth in medical and health sciences was 71%, while OIC's development was 543%. In natural sciences, world's growth was 64%, while OIC's progress in this field was 601%. Finally, in social sciences, world's growth was 74% and in OIC's, this growth was 976%.

The growth rate of the number of publications from 2000 to 2016 (percent %)							
Topic	Agricultural sciences	Engineering and technology	Humanities	Medical and health sciences	Natural sciences	Social sciences	Total
world	72%	222%	-6%	71%	64%	74%	77%
OIC Countries	450%	1090%	1088%	543%	601%	976%	666%
Malaysia	447%	3226%	4440%	915%	1067%	2033%	1374%

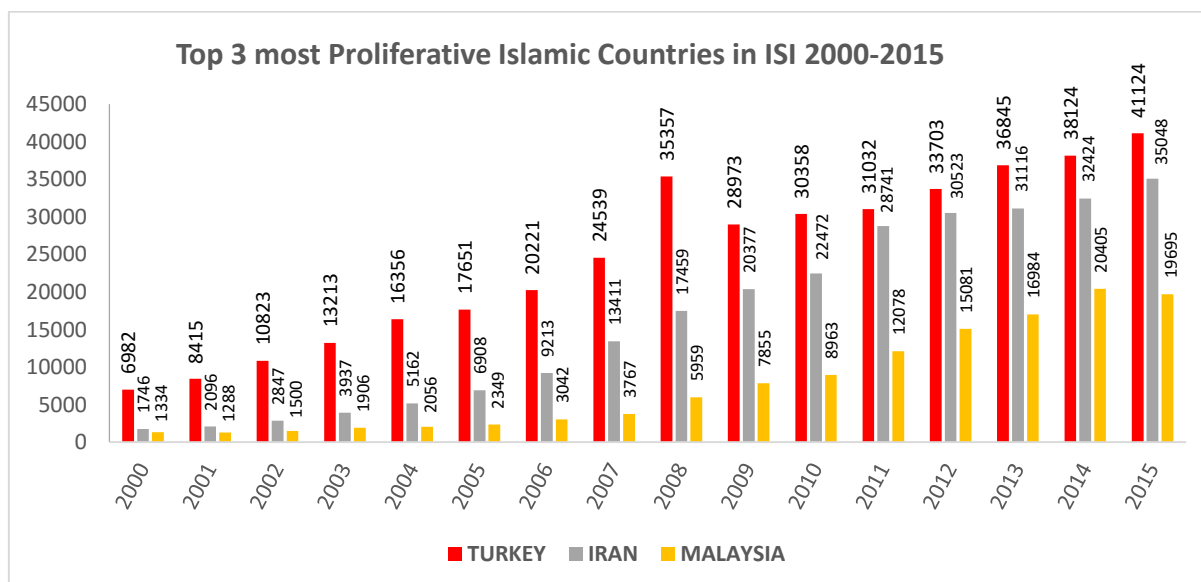
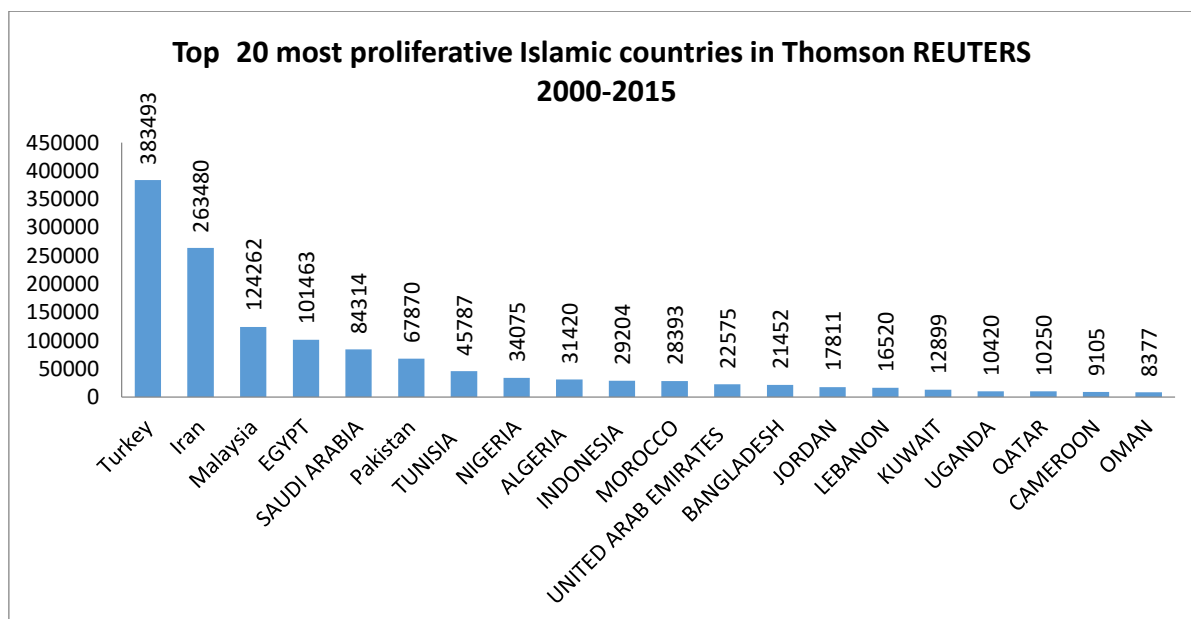
The number of scientific publications is the quantitative indicator of research, which is not enough to guarantee scientific development of a country. Factors such as scientific impact, citations, scientific diplomacy, economic impact, innovation and technological impacts must also be taken into account. ISC by adopting advanced scientometric strategies to improve OIC's scientific impact, citations, scientific diplomacy, economic impact, innovation and technological impacts, is proceeding towards preparing the necessary grounds for enhancing the quality of research and establishing an efficient scientific network within OIC countries.



Islamic Countries in Universal Ranking Systems

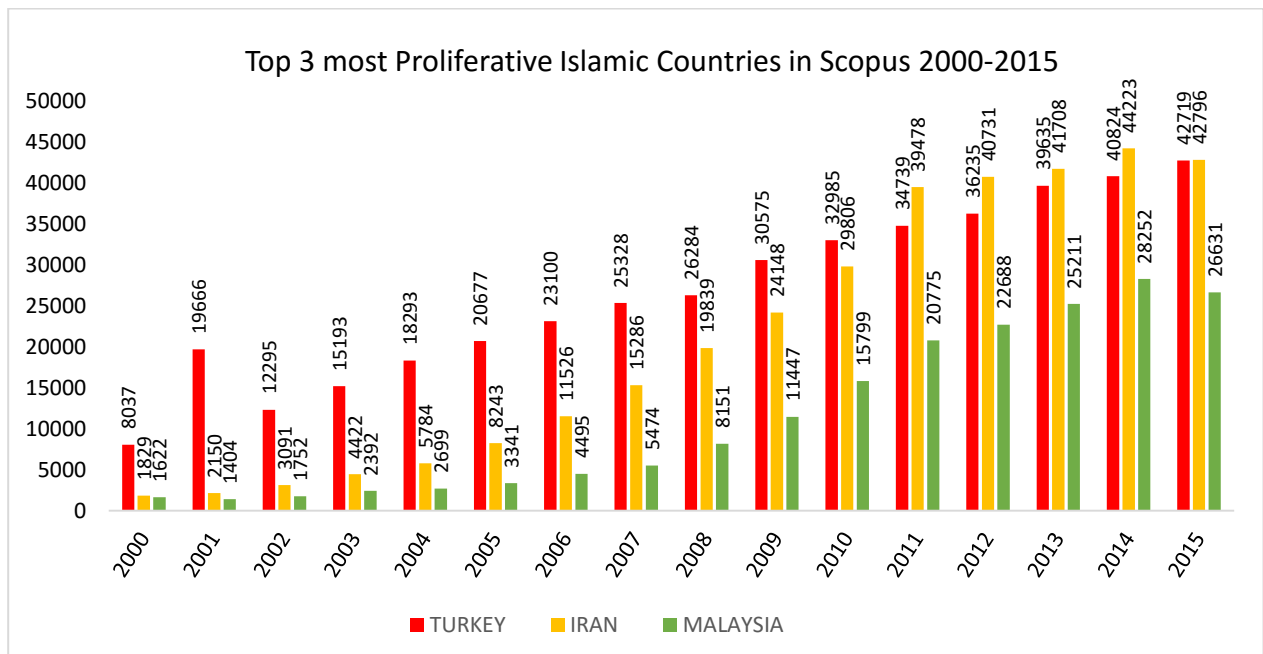
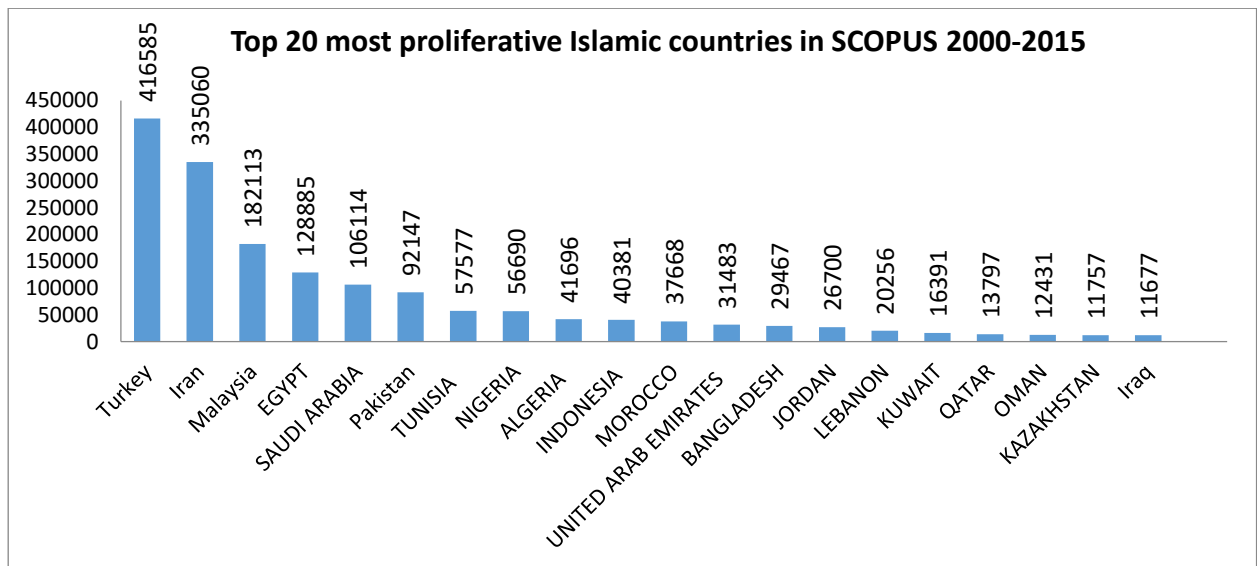
➤ Top Islamic Countries in ISI

According to the data extracted from ISI Web of Science over 2000-2015 period, Turkey, Iran and Malaysia are ranked as the 1st, 2nd and 3rd most proliferative countries with respectively 383493, 263480, and 124262 publications.



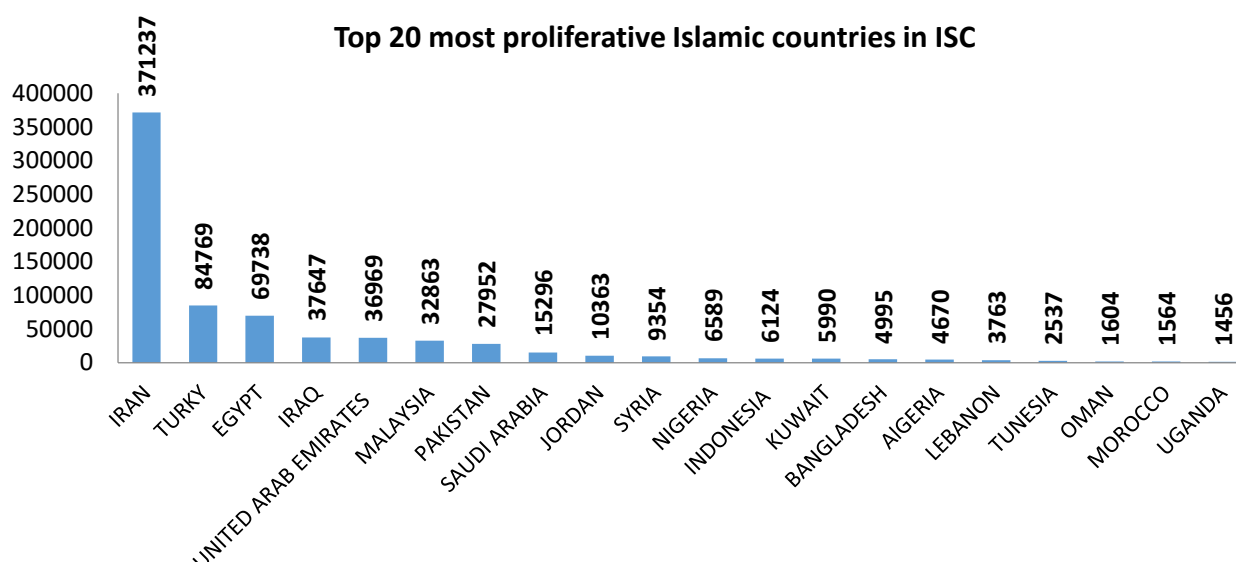
➤ Top Islamic Countries in Scopus

According to the data extracted from Scopus Web of Science over 2000-2015 period, Turkey, Iran and Malaysia are ranked as the 1st, 2nd and 3rd most proliferative countries with respectively 416585, 335060, and 182113 publications.



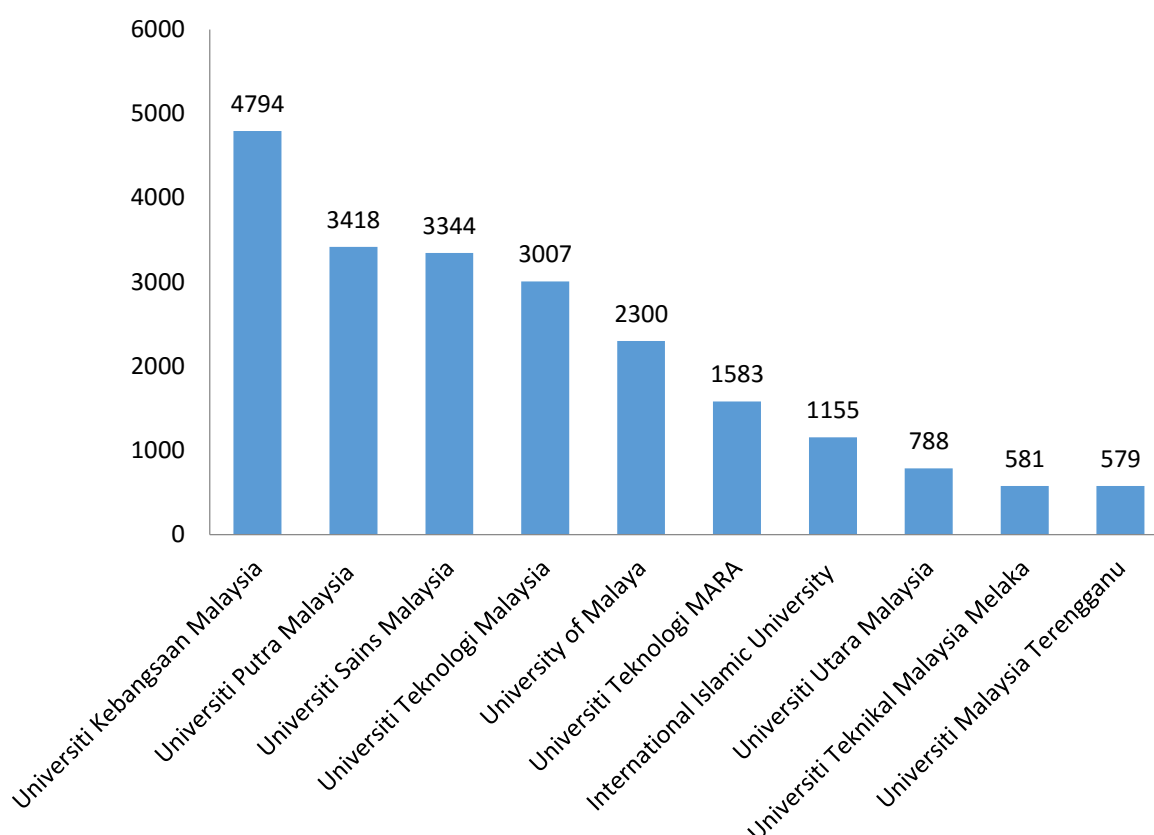
➤ Top Islamic Countries in ISC database

According to the data extracted from ISC, Iran, Turkey and Egypt are ranked as the 1st, 2nd and 3rd most proliferative countries with respectively 371237, 84769, and 69738 publications.



➤ Most Proliferative Universities of Malaysia in ISC database

Data extracted from ISC over 2005-2016 period reveals that top 3 universities of Malaysia according to the number of published and indexed articles are Universiti Kebangsaan Malaysia, Universiti Putra Malaysia, Universiti Sains Malaysia with respectively 4794, 3418, and 3344 articles.



Top 10 universities of Malaysia based on the number of publications in ISC 2005-2016

Highly-Cited articles of Malaysia in ISC database

Based on data extracted from SCI, the most cited articles of Malaysia over 2005-2016 period are (1) The Use of Partial Least Squares Path Modeling in Causal Inference for Archival Financial Accounting Research, (2) Motivation To Learn A Foreign Language In Malaysia, and (3) Sikap Pelajar Terhadap Pembelajaran Kemahiran Lisan Bahasa Arab Di Universiti Teknologi MARA (UiTM), respectively cited 19, 17, and 16 times.

Islamic World SCI evaluates the research performance and relationships of scientific documents. On this basis, it is possible to track changes in scientific ideas, assumptions, methods and instruments. SCI helps researchers access bibliographic and citation information they need to find research data, analyze trends, journals, researchers, keep informed of the latest trends with a multifaceted analytics view, and pinpoint the emerging research areas that could impact their work.

Rank	Article	Authors
1	The Use of Partial Least Squares Path Modeling in Causal Inference for Archival Financial Accounting Research	Goh Chin Fei, Ali Mohamad Bilal, Rasli Amran
2	Motivation To Learn A Foreign Language In Malaysia	Madziah Zubairi Ainol, Hj Sarudin Isarji
3	Sikap Pelajar Terhadap Pembelajaran Kemahiran Lisan Bahasa Arab Di Universiti Teknologi MARA (UiTM)	Yusri Ghazali, Mohd Rahimi Nik, Shah Parilah M.
4	Antioxidant and free radical scavenging activities of some promising wild edible fruits	Prakash D., Upadhyay G., Gupta C., Pushpangadan P., Singh K.K.
5	Flow and Heat Transfer over a Stretching Cylinder with Prescribed Surface Heat Flux	Bachok Norfifah, Ishak Anuar
6	Motivation And Attitudes Of Iranian Undergraduate EFL Students Towards Learning English	Chalak Azizeh, Kassaian Zohreh
7	Motivation And Attitudes Towards Learning English: A Study Of Petroleum Engineering Undergraduates At Hadhramout University Of Sciences And Technology	Al-Tamimi Atef, Shuib Munir
8	Prevalence And Sources Of Stress Among Universiti Sains Malaysia Medical Students	Bahri Yusoff Muhamad Saiful, Abdul Rahim Ahmad Fuad, Jamil Yaacob Mohd
9	Antioxidant Activity, Total Phenolic And Flavonoid Content Of Morinda Citrifolia Fruit Extracts From Various Extraction Processes	Ramamoorthy Praveen K., Bono Awang
10	Effects of Dietary Protein Level on Growth and Ammonia Excretion of Leopard Coral Grouper, <i>Plectropomus leopardus</i> (Lacepede, 1802)	XIA S., SUN Z., Feng S., zhang Z., Rahman M.M., Rajkumar M.

Highly-Cited journals of Malaysia in ISC database

Based on data extracted from Islamic World Science Citation Center (ISC) JCR, the most cited journals of Malaysia over 2005-2016 period are (1) International Journal of Automotive and Mechanical Engineering, (2) Journal of Mechanical Engineering and Sciences, and (3) Jurnal komunikasi, Malaysian Journal of Communication respectively. These journals have the highest impact Factor among all Malaysian journals.

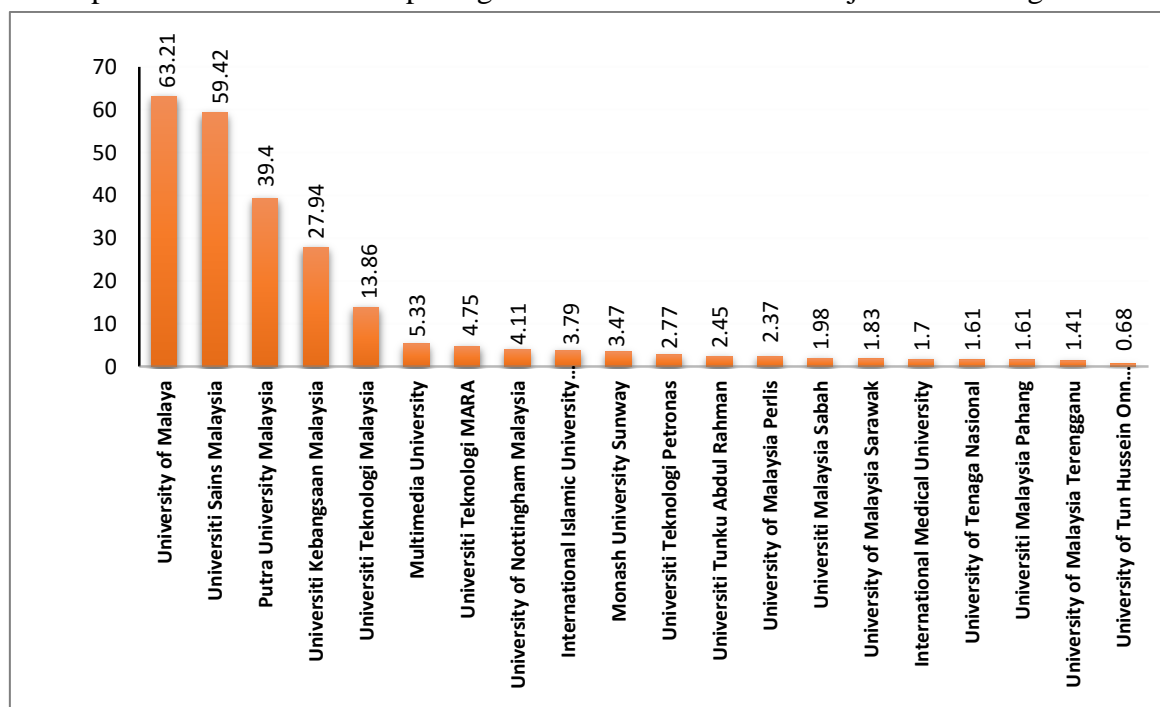
Islamic World JCR is derived from international Scientometric standards and is an essential tool for in-depth analyses and ranking of scholarly and professional journals. This tool is designed in Persian, English, French and Arabic languages. By analyzing citations, Islamic World Journal Citation Reports measures research influence and impact at the journal and category levels and shows the relationship between citing and cited journals. Exploring the impact and influence of the Islamic World's leading scholarly journals is possible by performing direct comparisons of titles using trend analyses. This Product helps researchers keep up with the latest bibliometric developments, track publication and citation patterns to aid strategy and policy decisions, identify the most influential journals to publish articles in, determine journal's influence in the marketplace and review editorial functions.

Top 10 journals of Malaysia based on Impact Factor in ISC database

Rank	Journal
1	International Journal of Automotive and Mechanical Engineering
2	Journal of Mechanical Engineering and Sciences
3	Jurnal komunikasi, Malaysian Journal of Communication
4	Gema Online Journal of Language Studies
5	Malay Language Education Journal
6	3l: Language, Linguistics, Literature-The Southeast Asian Journal of English Language Studies
7	Journal of Malaysian Studies
8	Jurnal Teknologi
9	Jurnal Melayu
10	Geografia: Malaysian Journal of Society and Space

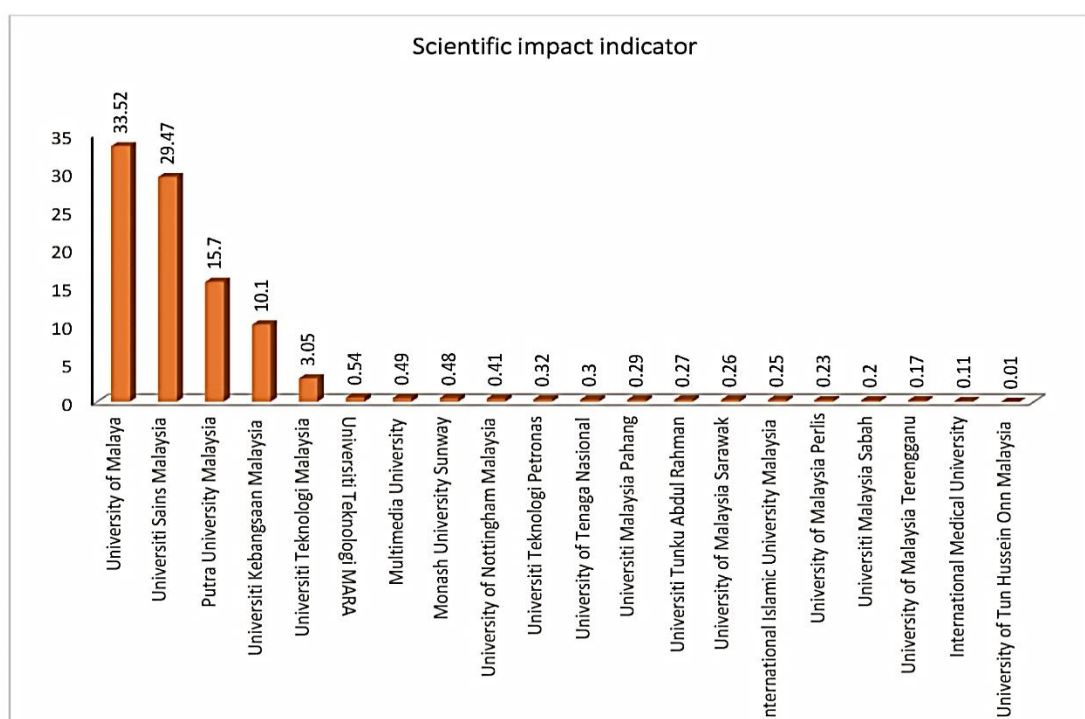
ISC Ranking of Islamic Countries' Universities 2013/2014

ISC Ranking of Islamic Countries Universities & Research Institutes 2013-14 is a project which has ranked about 600 of top Islamic countries' universities and research institutions with highest number of publications in the most prestigious international scientific journals during 2008-2012.



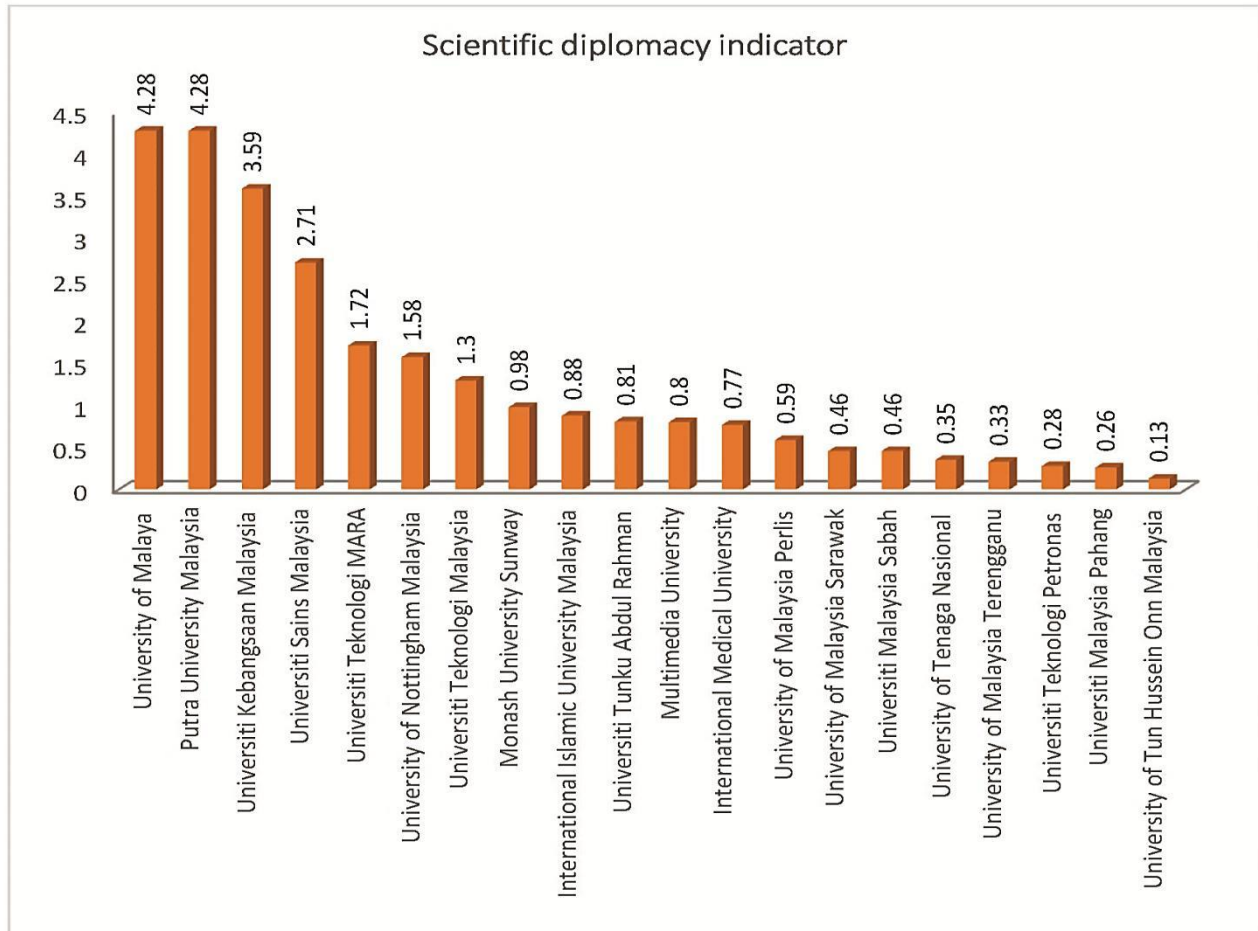
Malaysia's Top 20 universities in ISC Ranking of Islamic Countries Universities & Research Institutes

➤ Scientific impact indicator



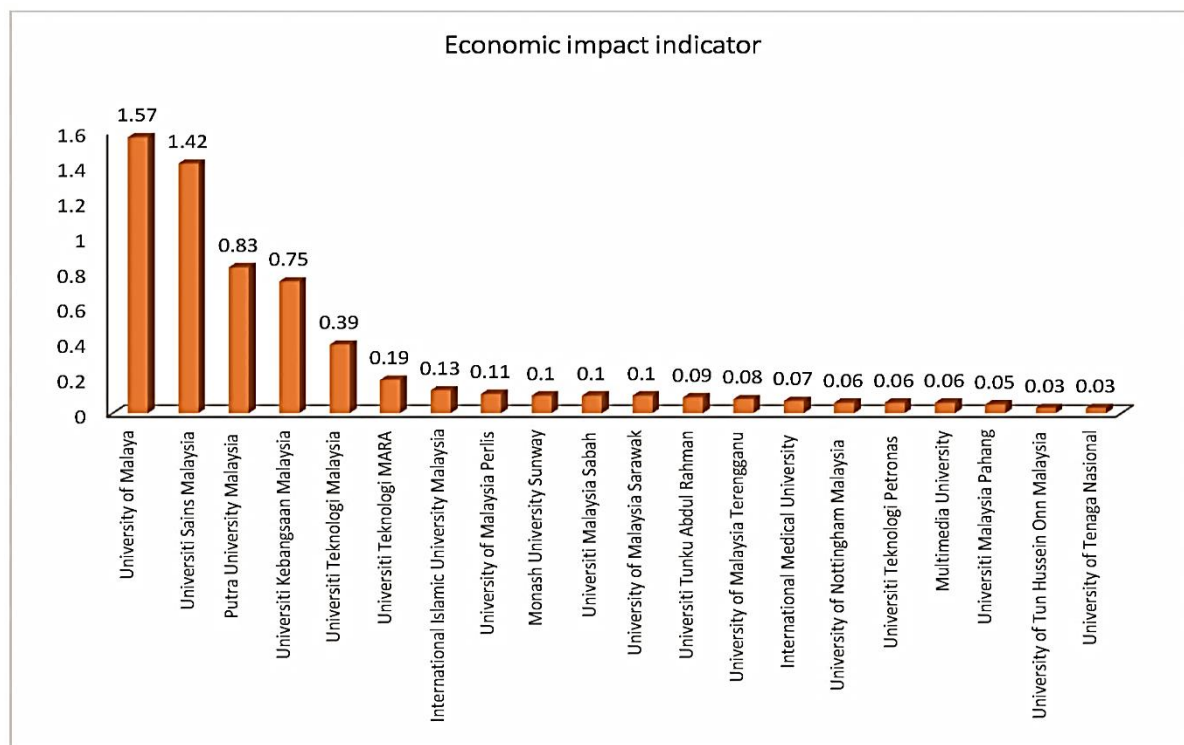
Malaysia's Top 20 universities based on *Scientific Impact Indicator* in ISC Ranking

➤ **Scientific diplomacy indicator**

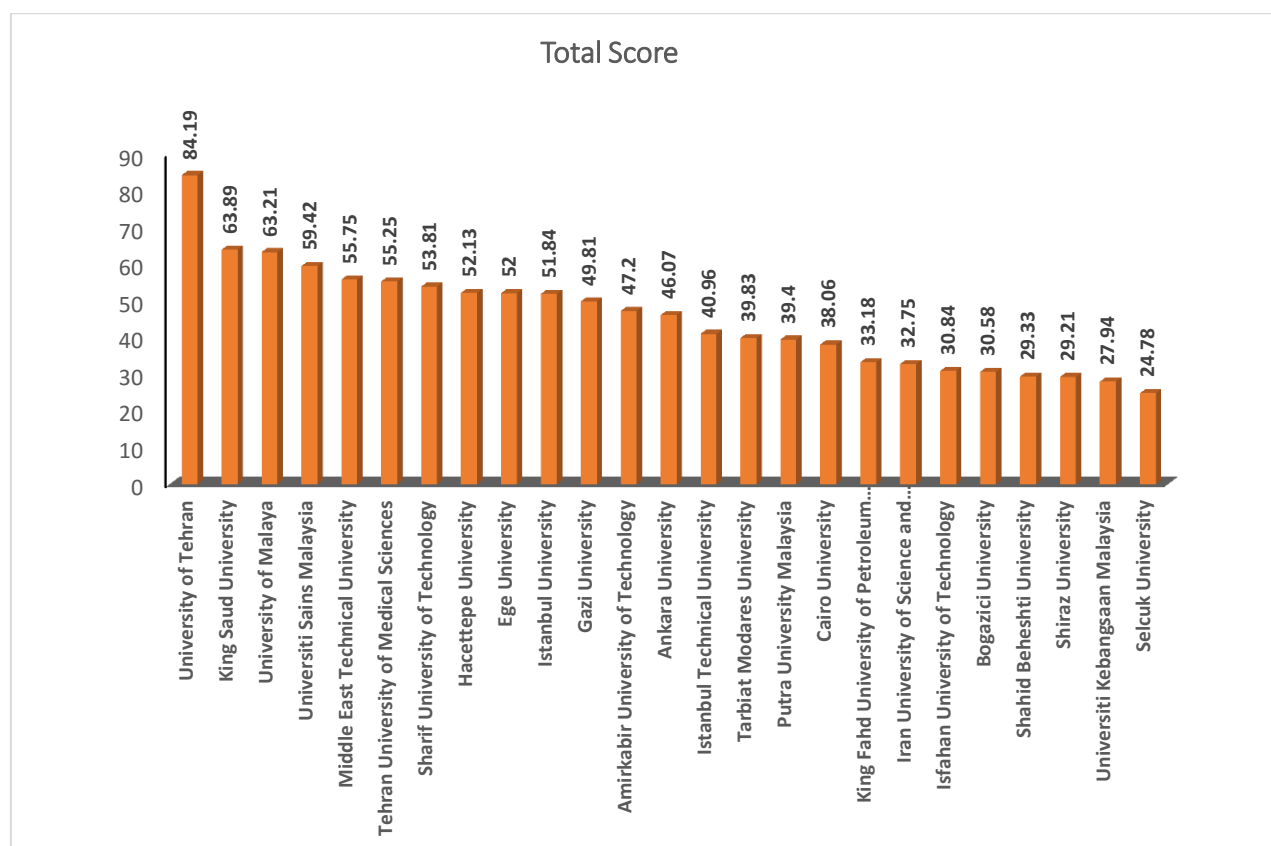


Malaysia's Top 20 universities based on *Scientific Diplomacy Indicator* in ISC Ranking

➤ **Economic impact indicator**



Malaysia's Top 20 universities based on *Economic Impact Indicator* in ISC Ranking



Top 25 Universities in ISC Ranking of Islamic Countries Universities (2013/2014)

4 universities of Malaysia are among top 25 universities of Islamic World. Scores of University of Malaya and Universiti Sains Malaysia are above top 25 universities' average score.

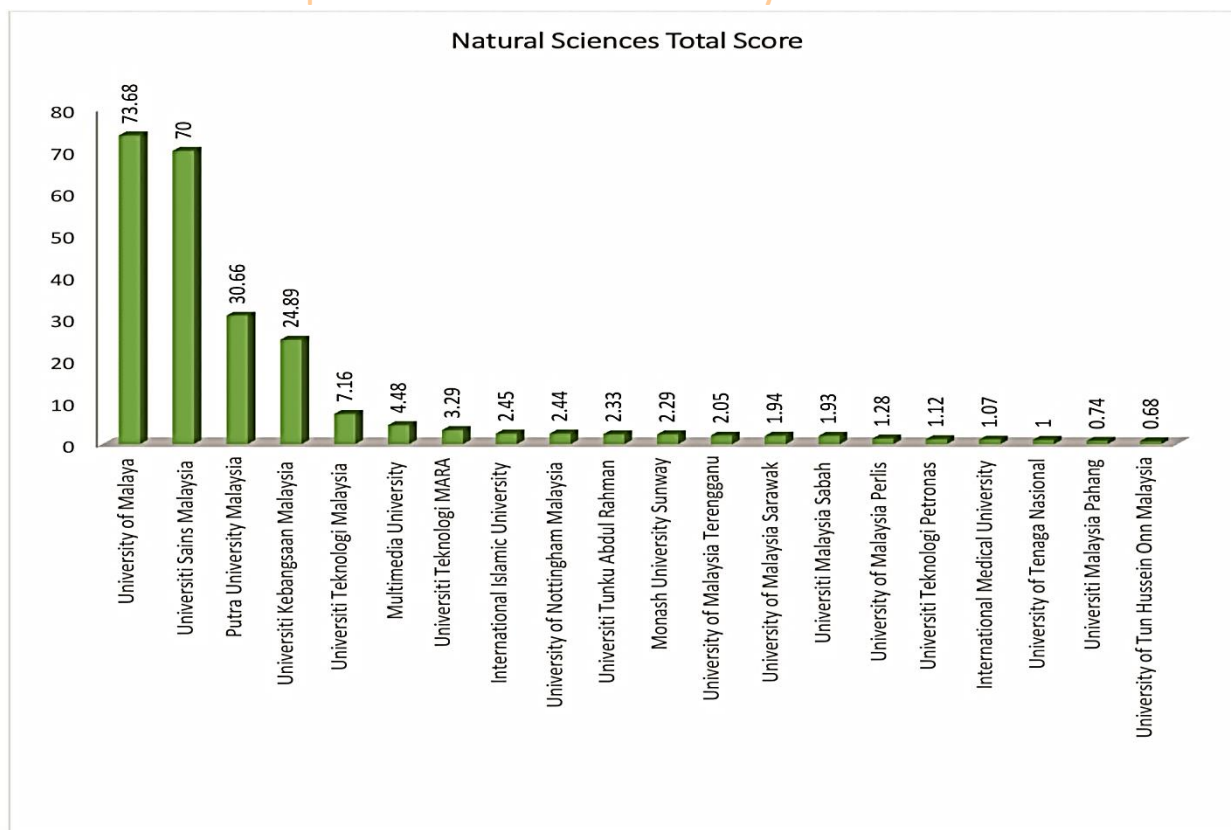
Malaysia is the 3rd country with the most number of top universities and institutes in Islamic world.

Countries with the most Number of top universities in ISC Ranking of Islamic Countries Universities 2013/2014

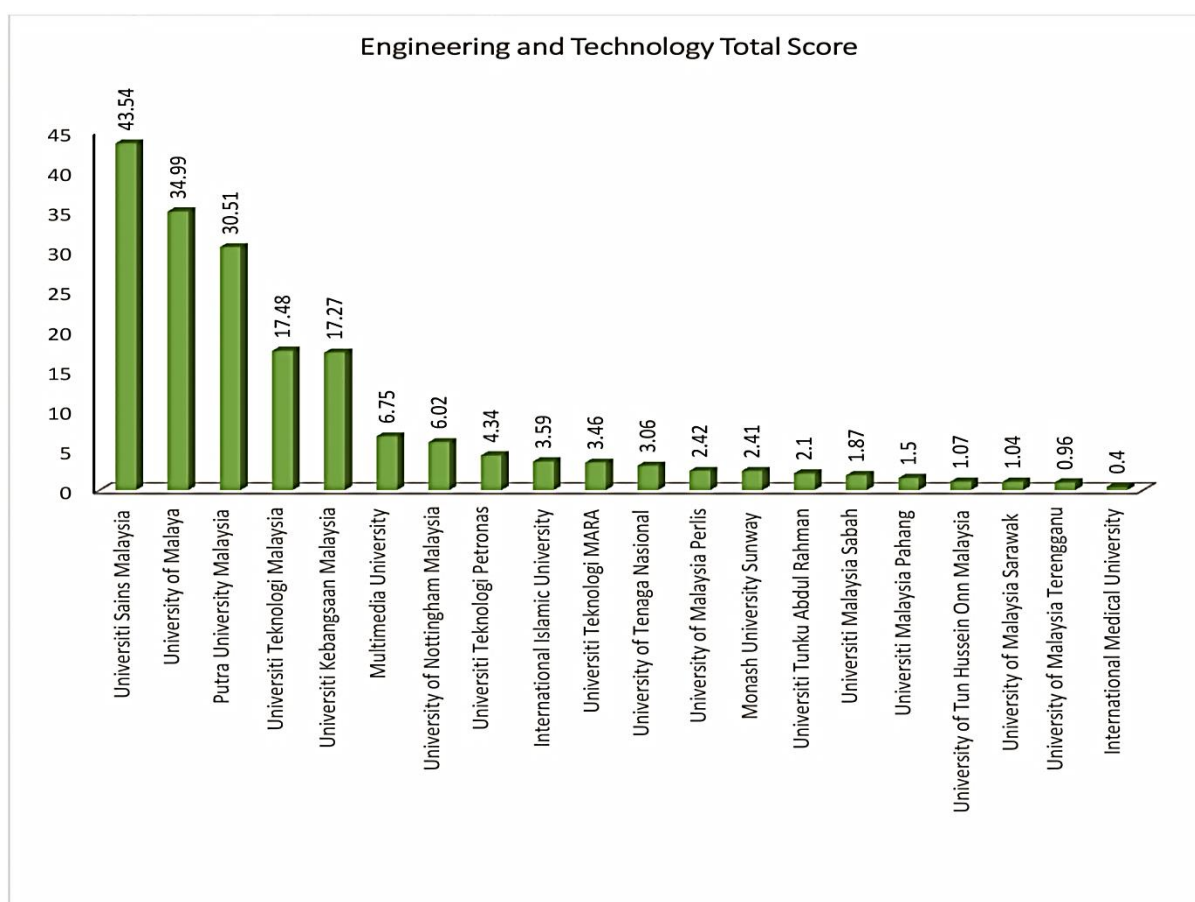
Country	No. of Top 25 Universite in countrys	No. of Top 50 Universite in countries	No. of Top 100 Universite in countries	No. of Top 200 Universite in countries	No. of Top 300 Universite in countries	No. of Top 400 Universite in countries	No. of Top 500 Universite in countries	No. of Top 600 Universite in countries
Iran	9	13	23	52	72	90	103	107
Turkey	9	22	44	69	78	86	87	87
Malaysia	4	5	5	12	19	20	20	20
Saudi Arabia	2	3	3	5	11	17	19	20
Egypt	1	4	9	17	21	24	25	25
Pakistan	-	1	5	8	14	21	24	24
Lebanon	-	1	1	1	4	6	8	15
Kuwait	-	1	1	1	2	3	9	15
Morocco	-	-	3	6	8	15	17	17
Nigeria	-	-	1	6	14	21	23	24
Tunisia	-	-	1	4	9	15	15	15
UAE	-	-	1	3	4	5	16	20
Uganda	-	-	1	1	1	3	7	8
Jordan	-	-	1	3	5	8	15	18
Oman	-	-	1	1	1	2	3	8
Algeria	-	-	-	4	8	13	16	16
Bangladesh	-	-	-	2	6	10	17	19
Kameron	-	-	-	1	1	4	7	9
Azerbaijan	-	-	-	1	2	2	4	8
Uzbekistan	-	-	-	1	1	1	3	4
Qatar	-	-	-	1	4	4	6	10
Sudan	-	-	-	1	1	1	3	8
Indonesia	-	-	-	-	5	7	16	19

Ranking Malaysian Universities by Field

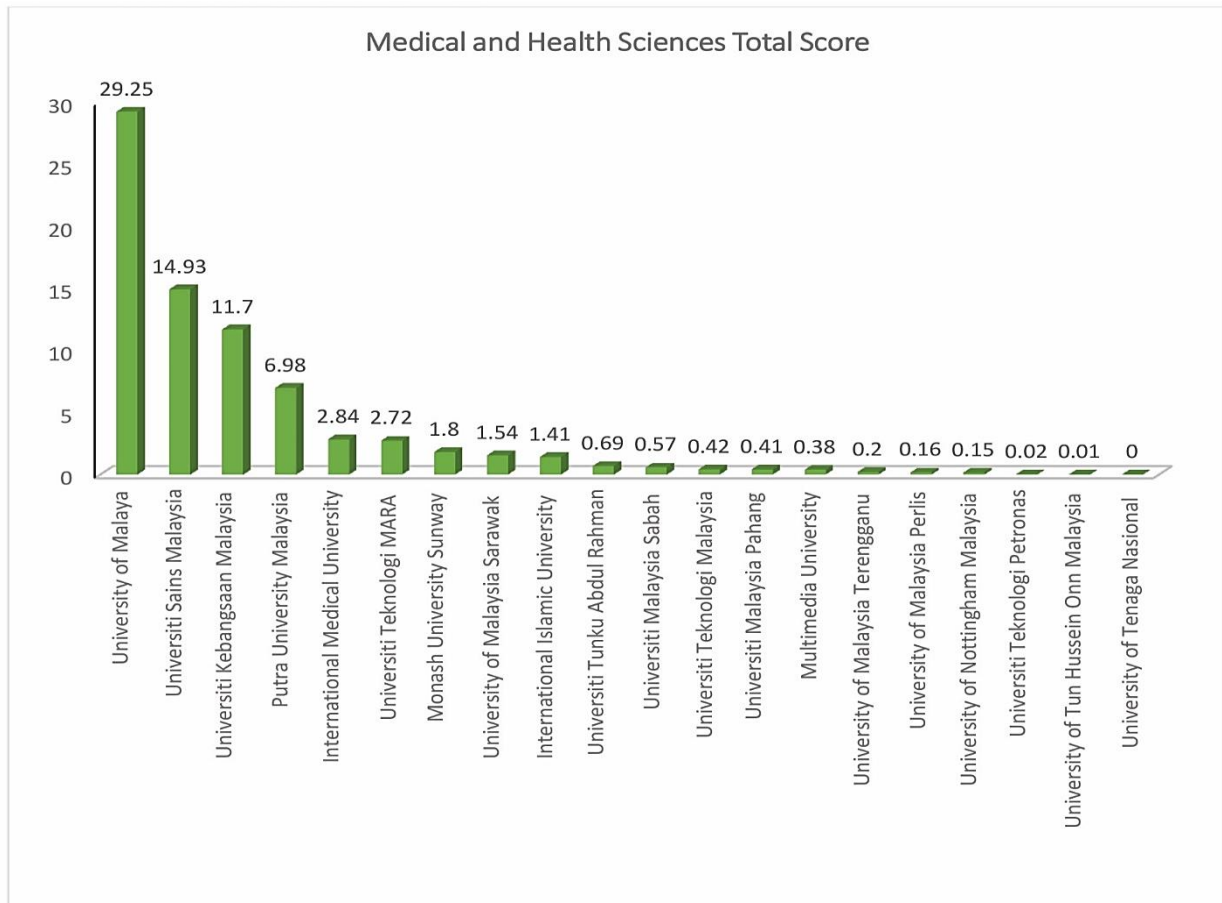
ISC ranked universities and research institutions at the level of science as a whole and also at the level of five broad fields including natural sciences, engineering and technology, medical and health sciences, agricultural sciences, social sciences, where each field consists of the most related journals in that area. These broad fields of science have been defined at the journal level and each of these broad fields involves several subfields, so research performance in subordinate fields forms the performance in a superordinate field. The Revised Field of Science and Technology (FOS) Classification introduced by the organization for economic co-operation and development (OECD) was applied in the ISC ranking.



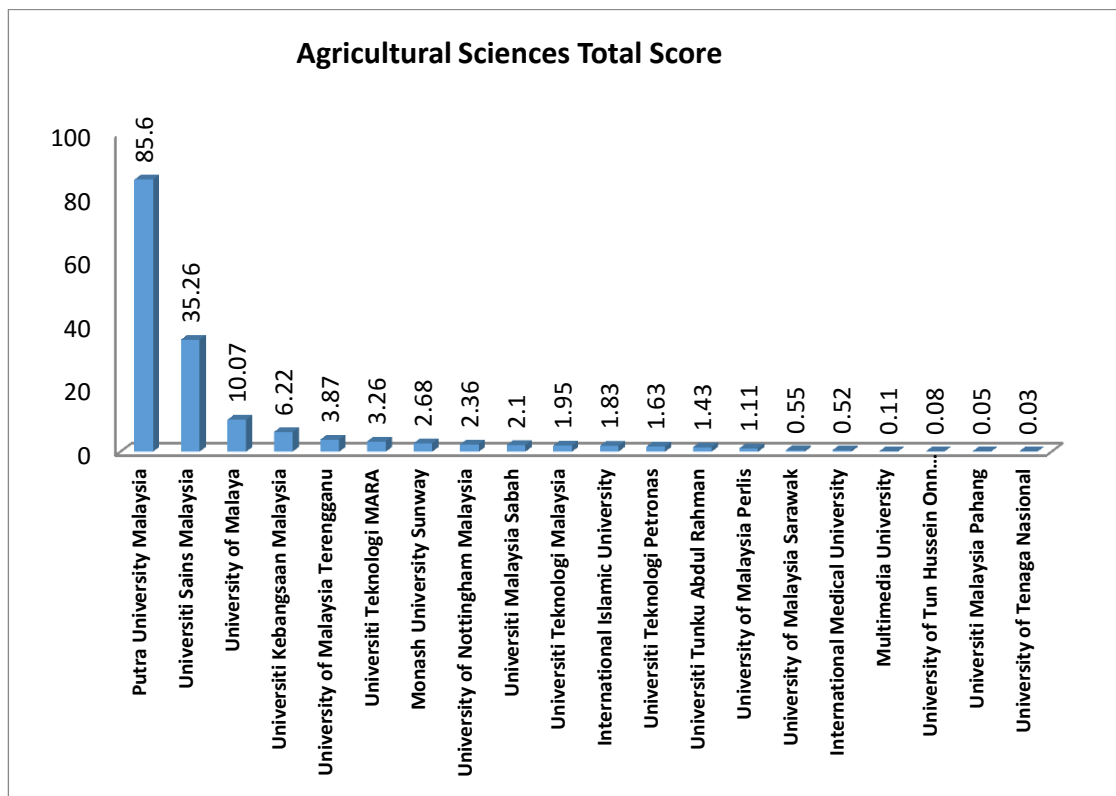
Malaysia's Top 20 universities in Natural Sciences field in ISC Ranking



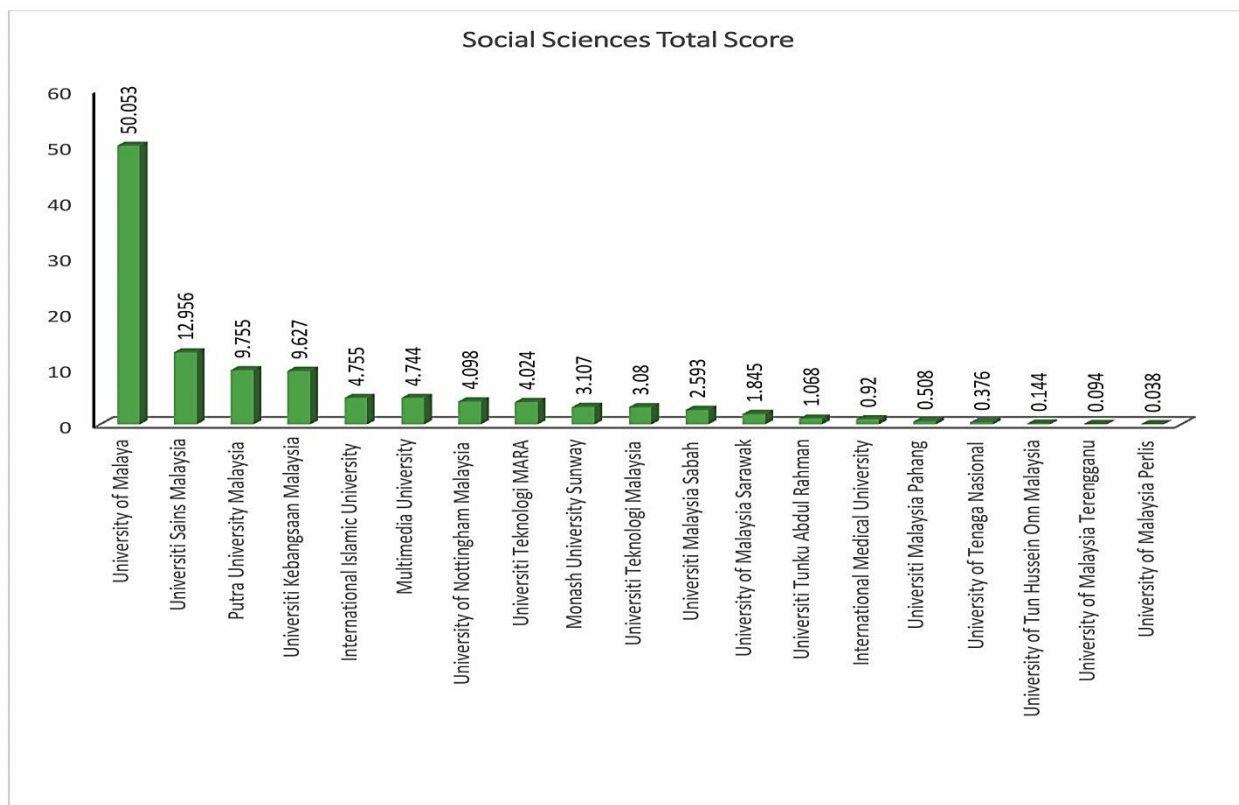
Malaysia's Top 20 universities in Engineering and Technology field in ISC Ranking



Malaysia's Top 20 universities in Medical and Health Sciences field in ISC Ranking



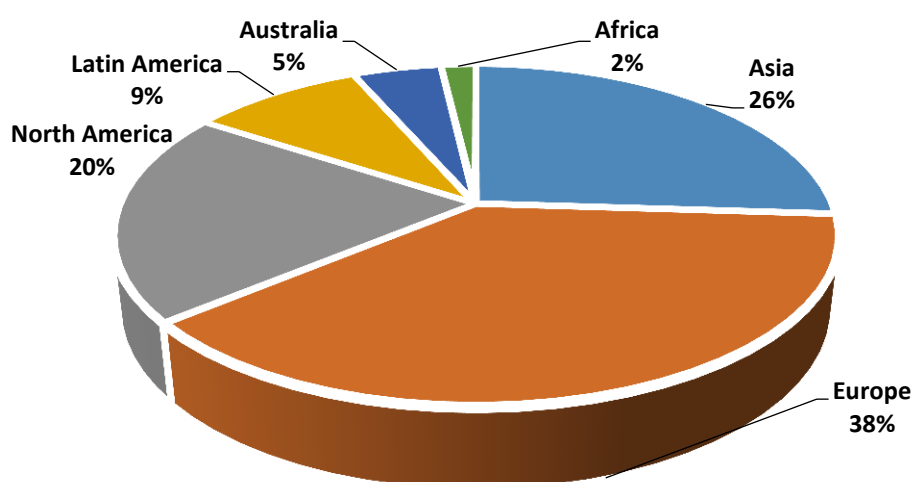
Malaysia's Top 20 universities in Agricultural Sciences field in ISC Ranking



Malaysia's Top 20 universities in Social Sciences field in ISC Ranking

QS World University Rankings 2016/17

QS World University Rankings were first developed in 2004, they have expanded to rank more than 900 universities in 2016-17, with over 3,800 assessed. The top 400 universities are given individual ranking positions, and the rest are ranked in groups – starting from 401-410, up to 701+. Qs ranks universities by subject, by faculty and by region, it also ranks graduate employability, best student cities, and top 50 under 50. Some Malaysian universities are in the list of QS World University Rankings® 2016-2017 by subject, by faculty and also in QS World University Rankings Asia, which are presented as follows:



Continent's share in QS World University Rankings 2016/2017

Asia in QS World University Rankings 2016/17

238 universities from 29 Asian countries are present in **QS World University Rankings 2016/2017**. National University of Singapore (NUS) ranking 12, is the highest ranked of Asian universities in the overall QS World University Rankings 2016-2017; moreover, Nanyang Technological University (NTU) of Singapore ranking 13, Tsinghua University of china ranking 24, The University of Hong Kong ranking 27, and the University of Tokyo ranking 34 are Asia's top universities. It is noteworthy that Universiti Malaya (UM) of Malaysia is ranked 22 in Asia.

Malaysian Universities in QS World University Rankings 2016/17

In QS World University Rankings 2016/2017, 9 universities of Malaysia were present: The highest ranked and oldest of university in Malaysia, Universiti Malaya (UM) is ranked 133rd in the QS World University Rankings® 2016-2017. Universiti Putra Malaysia (UPM) is ranked 2nd in Malaysia. This university made a good leap in the 2016-2017 rankings, from 331st to 270th, overtaking USM to be the second-highest ranked university in Malaysia. Universiti Teknologi Malaysia (UTM), which is ranked 228th in the overall

QS World University Rankings 2016-2017 is the third university in Malaysia. Universiti Kebangsaan Malaysia (UKM) is ranked 302nd in the world and is ranked 4th in Malaysia. Universiti Sains Malaysia (USM), also known as the University of Science Malaysia, currently ranks at 289th in the world and ranks within the global top 50 for its chemical engineering programs according to the latest QS World University Rankings by Subject. This university is ranked 5th in Malaysia.

The next four universities ranking 6th to 9th in Malaysia are International Islamic University Malaysia (IIUM), Universiti Teknologi Petronas (Petronas) in 601-650 zone, Universiti Teknologi MARA UiTM and Universiti Utara Malaysia (UUM) in +701 zone.

Malaysia's top 9 universities in QS World University Ranking 2016/2017

Rank	University	Overall Rank	Overall Score	Academic Reputation	Employer Reputation	Faculty	International Faculty	International Students
						Student		
1	Universiti Malaya (UM)	133	57.1	55.7	48	92.2	77.5	70.5
2	Universiti Putra Malaysia (UPM)	270	38.8	43.2	-	48.9	45.2	71.8
3	Universiti Teknologi Malaysia	288	37.4	-	-	82.9	56.8	41.3
4	Universiti Kebangsaan Malaysia (UKM)	302	36.7	40	-	53.9	55	44
5	Universiti Sains Malaysia (USM)	330	34.6	40.3	34.7	36.8	23.4	25.8
6	International Islamic University Malaysia (IIUM)	601-650	-	-	-	27.8	46.9	69.9
7	Universiti Teknologi Petronas (Petronas)	601-650	-	-	-	-	85.1	69.8
8	Universiti Teknologi MARA UiTM	+701	-	-	-	28.4	-	-
9	Universiti Utara Malaysia (UUM)	+701	-	-	-	-	54.9	55

QS Asian University Ranking

Published annually since 2009, the **QS University Rankings: Asia** highlights the top universities in Asia each year. The methodology used to create the ranking is similar to that used for the QS World University Rankings®, but with some additional indicators and adapted weightings. This set of criteria, developed in consultation with regional experts and stakeholders, is designed to reflect key priorities for universities in Asia, drawing on as much available data as possible.

21 Malaysian universities are present in QS Asian University Ranking in 2016

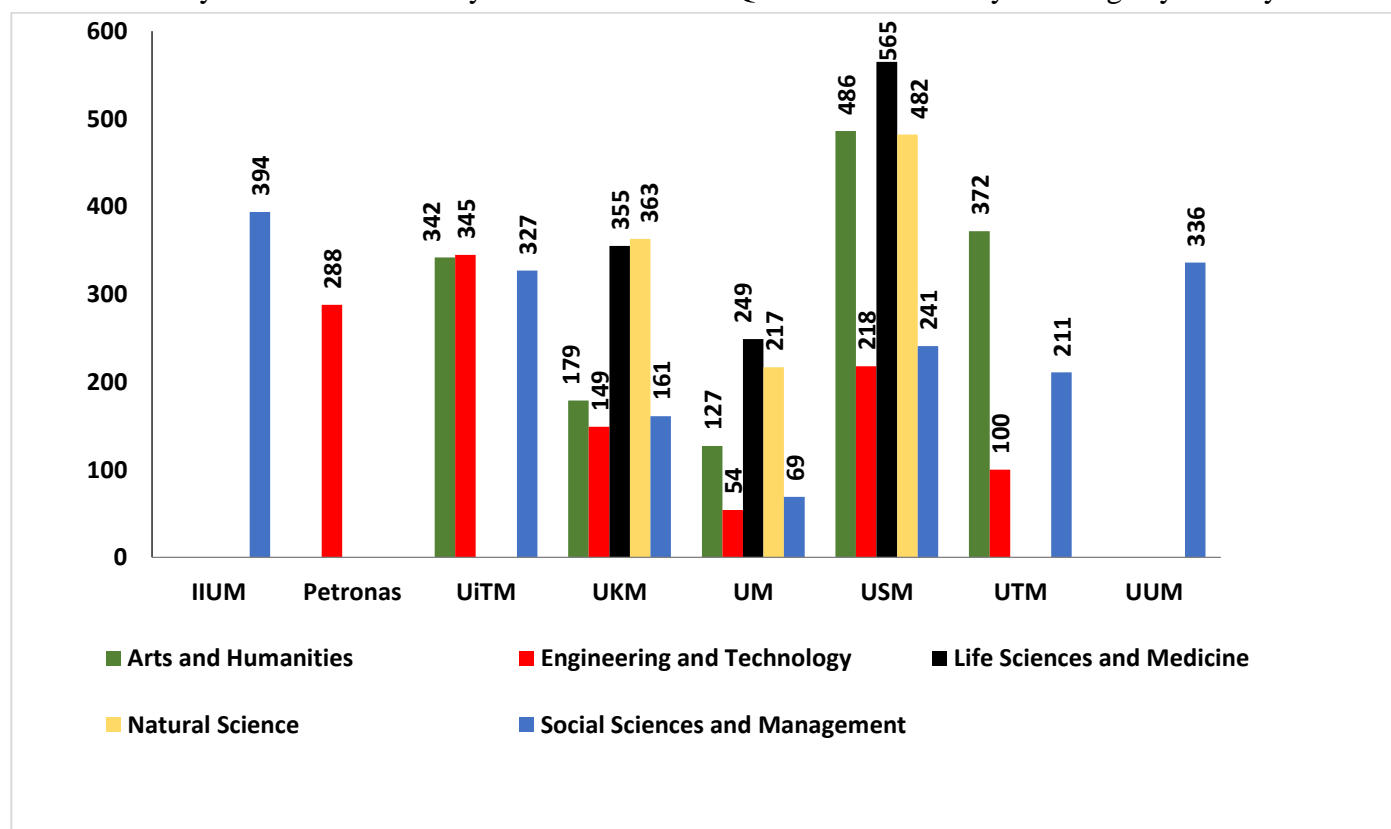
University	Rank
Universiti Malaya (UM)	27
Universiti Putra Malaysia (UPM)	49
Universiti Sains Malaysia (USM)	51
Universiti Kebangsaan Malaysia (UKM)	55
Universiti Teknologi Malaysia	63
Universiti Teknologi Petronas (Petronas)	127
Universiti Utara Malaysia (UUM)	137
International Islamic University Malaysia (IIUM)	151
Taylor's University	179
Universiti Teknologi MARA - UiTM	181
Multimedia University (MMU)	193
Universiti Malaysia Sabah (UMS)	211-220
Universiti Malaysia Perlis	221-230
Universiti Malaysia Sarawak (UNIMAS)	251-300
Limkokwing University of Creative Technology	251-300
Universiti Malaysia Pahang	251-300
Universiti Malaysia Terengganu (UMT)	251-300
Universiti Tenaga Nasional (UNITEN)	251-300
Universiti Tunku Abdul Rahman (UTAR)	251-300
UCSI University	301-350
Universiti Tun Hussein Onn Malaysia (UTHM)	301-350

QS World University Rankings by Faculty

Published alongside the overall QS World University Rankings®, the QS World University Rankings by Faculty uses four performance indicators to rank the world's top 400 universities in five faculty areas: arts & humanities, engineering & technology, life sciences & medicine, natural sciences, and social sciences & management.

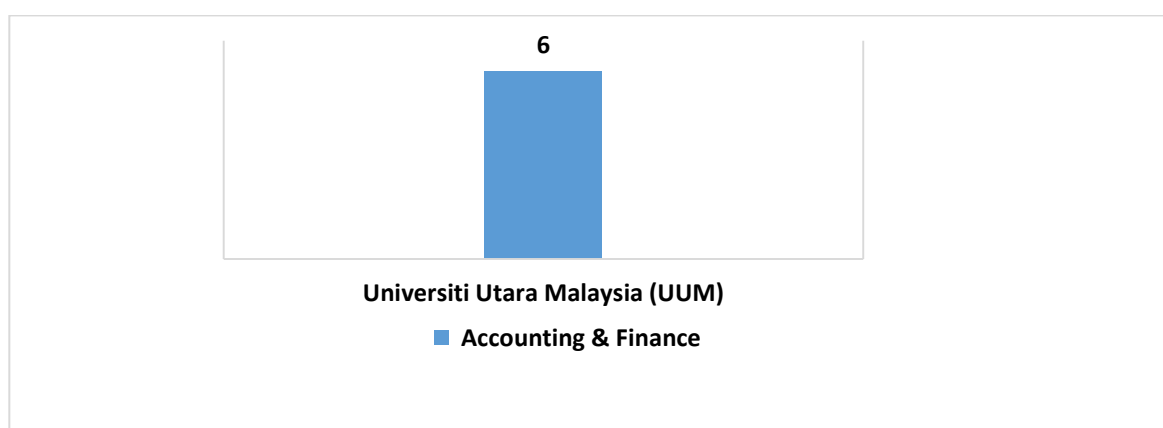
The scientific status of Malaysian universities in these five faculty areas are presented. As the table reveals, Universiti Malaya (UM) in comparison to other Malaysian universities, has the best rank in all five faculty areas:

Faculty-wise Rank of Malaysian universities in QS World University Rankings by Faculty

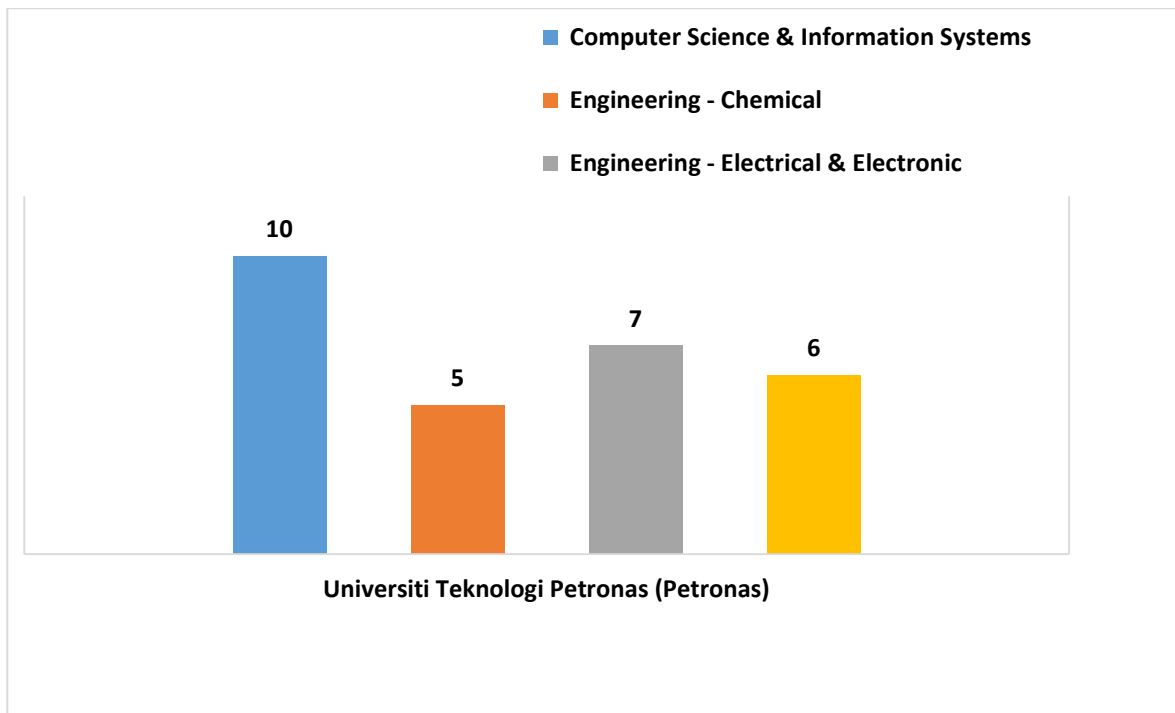


The QS World University Rankings by Subject

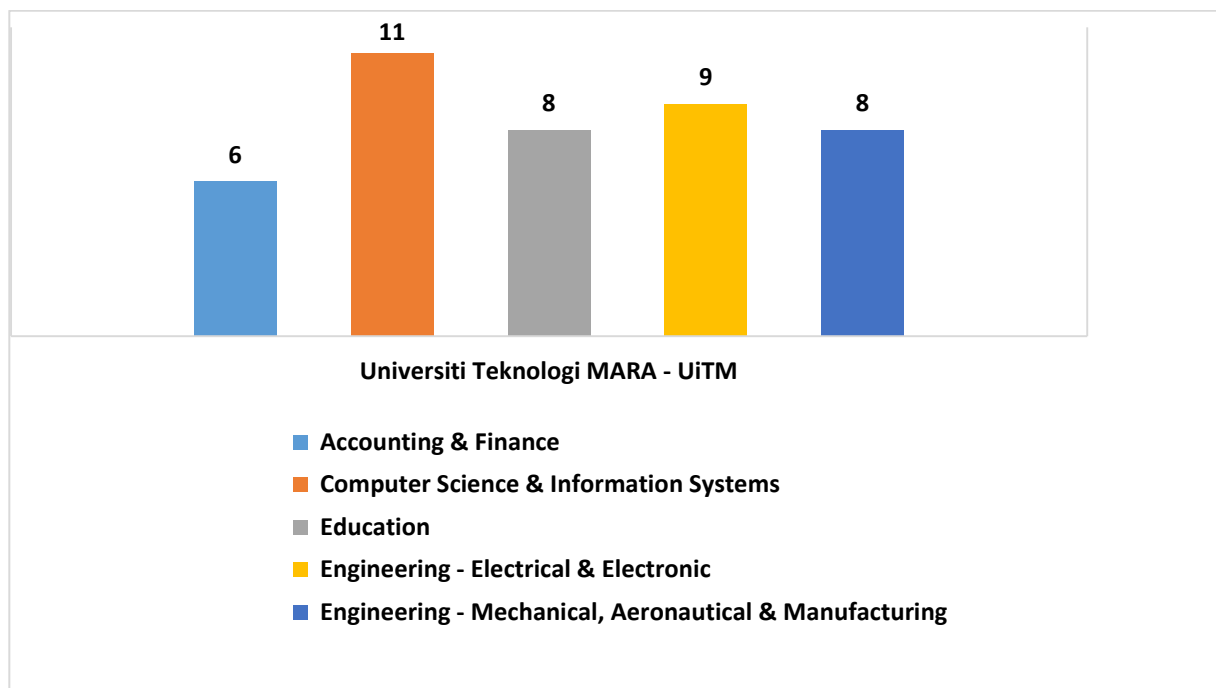
The QS World University Rankings by Subject highlights the world's top universities in a range of popular subject areas, covering 42 subjects as of 2016. Published annually since 2011, the rankings are based on academic reputation, employer reputation and research impact. Malaysia has universities in 42 subject areas which are presented as follows:



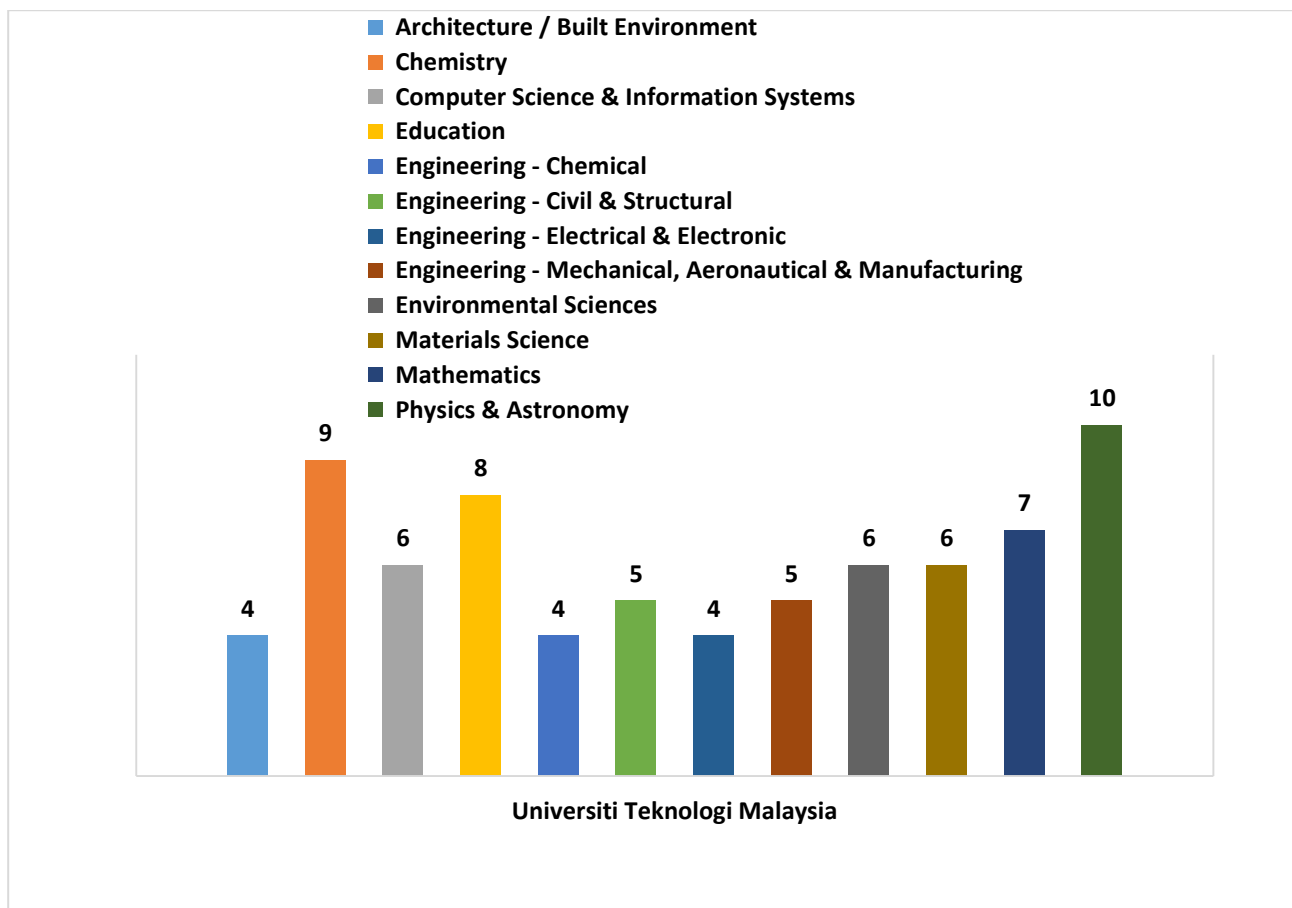
Subject-wise rank of UUM in QS World University Rankings by Subject



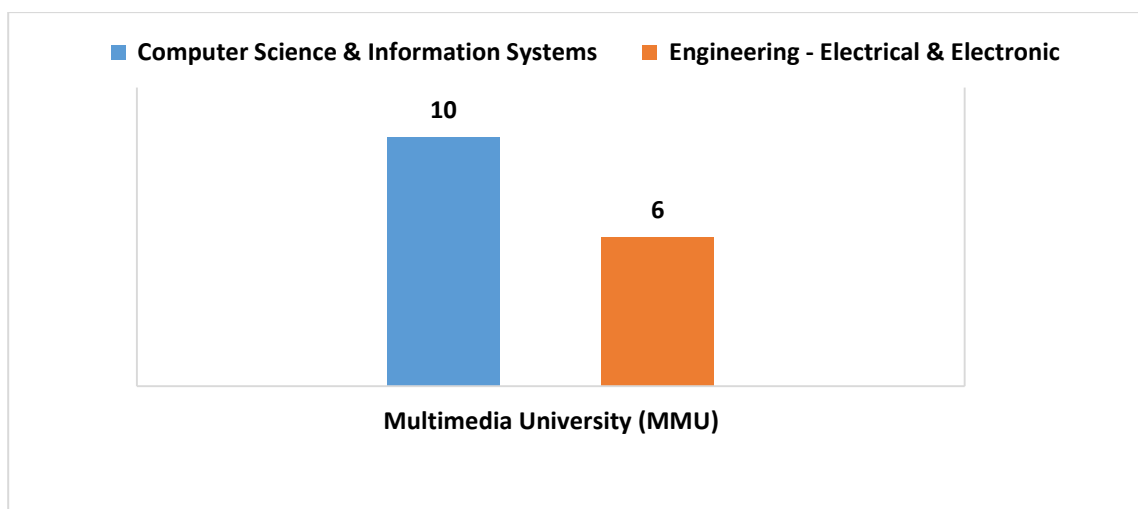
Subject-wise rank of Petronas in QS World University Rankings by Subject



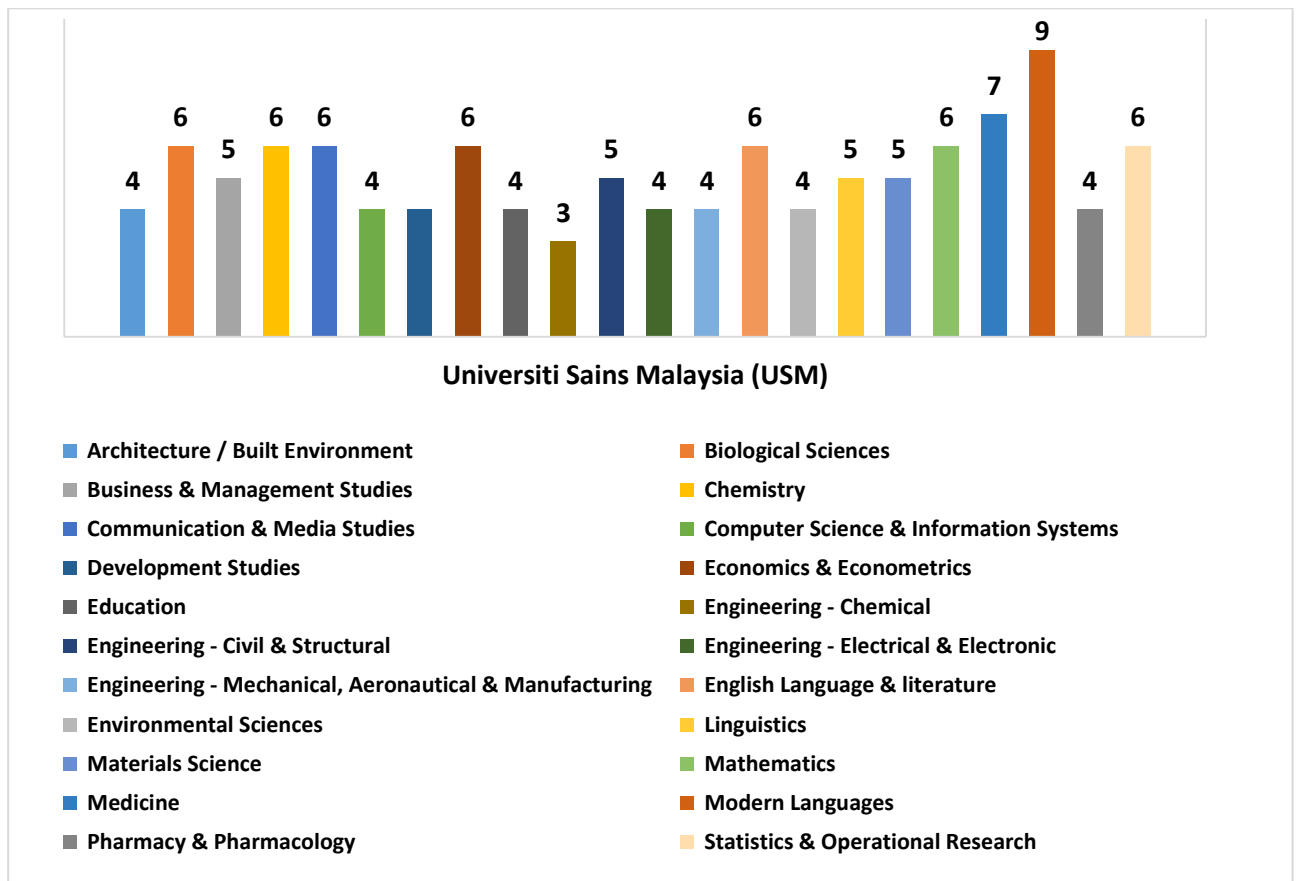
Subject-wise rank of UiTM in QS World University Rankings by Subject



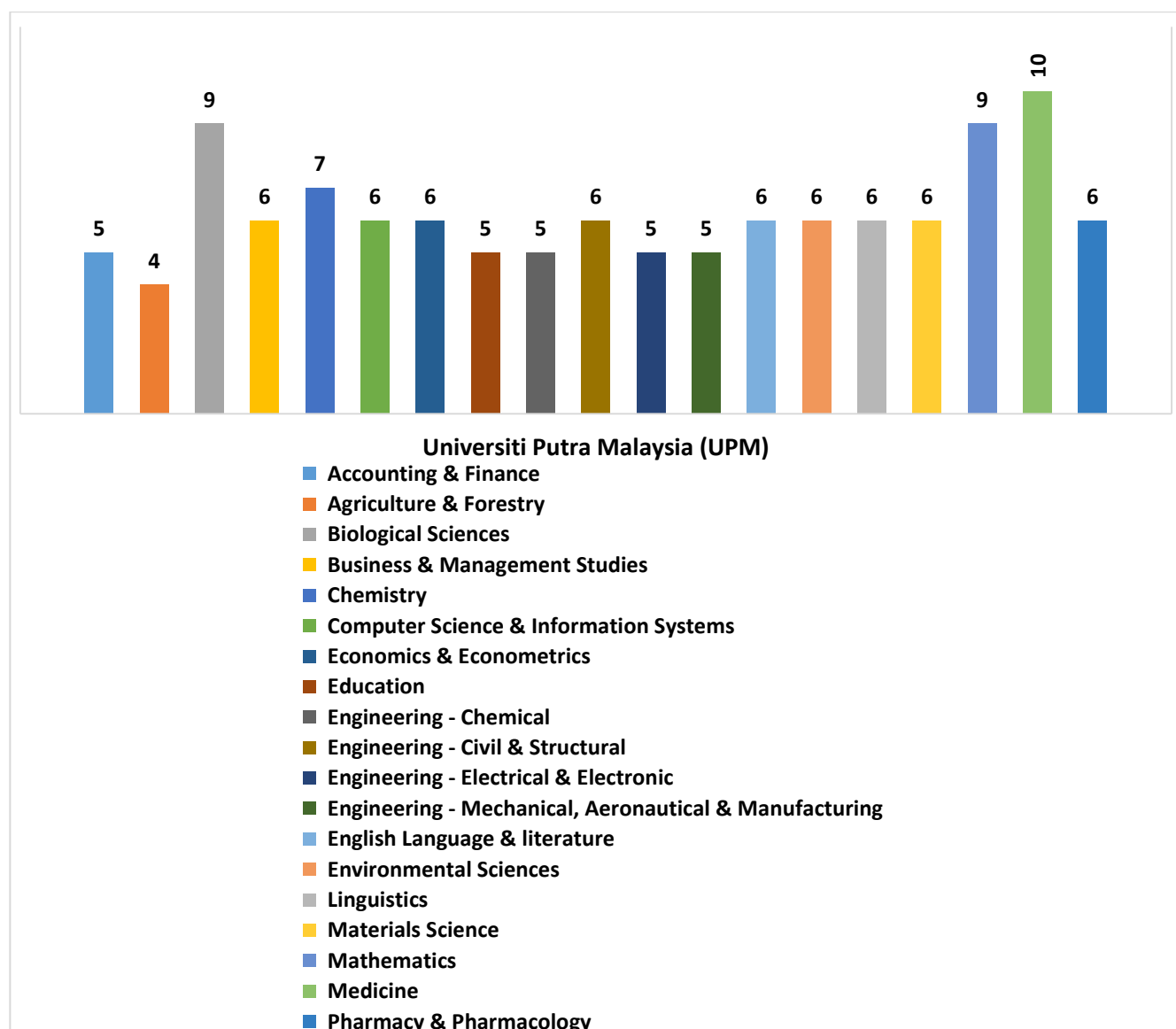
Subject-wise rank of Universiti Teknologi Malaysia in QS World University Rankings by Subject



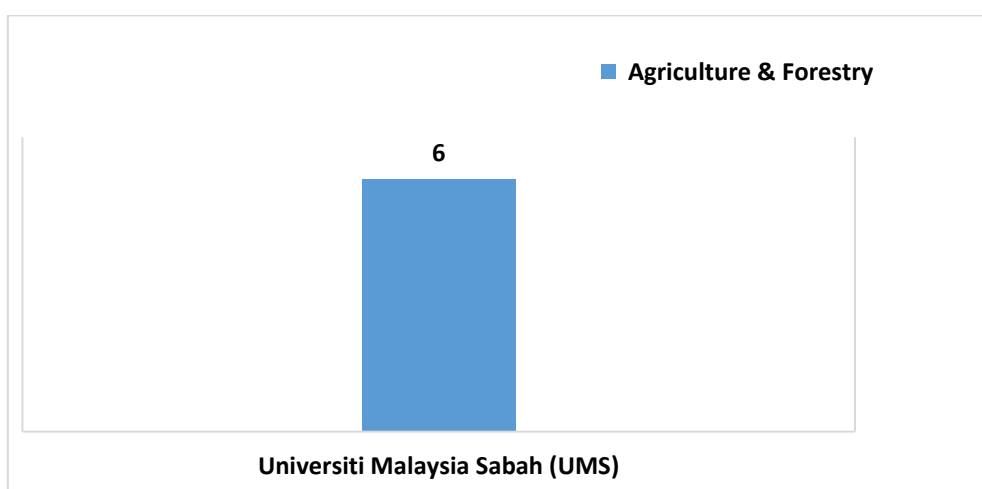
Subject-wise rank of MMU in QS World University Rankings by Subject



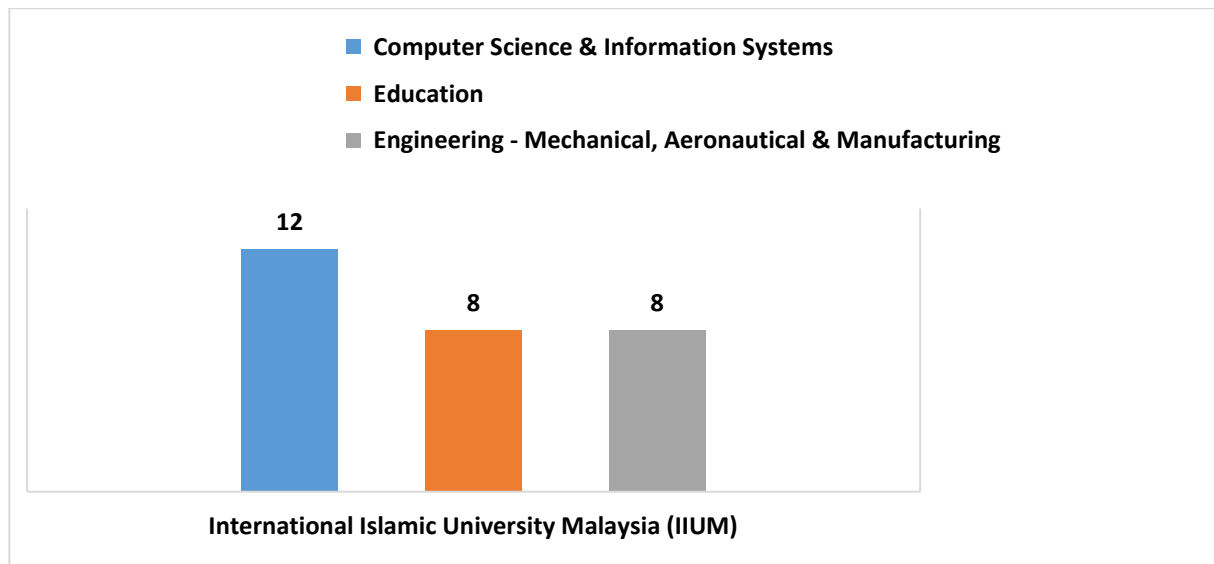
Subject-wise rank of USM in QS World University Rankings by Subject



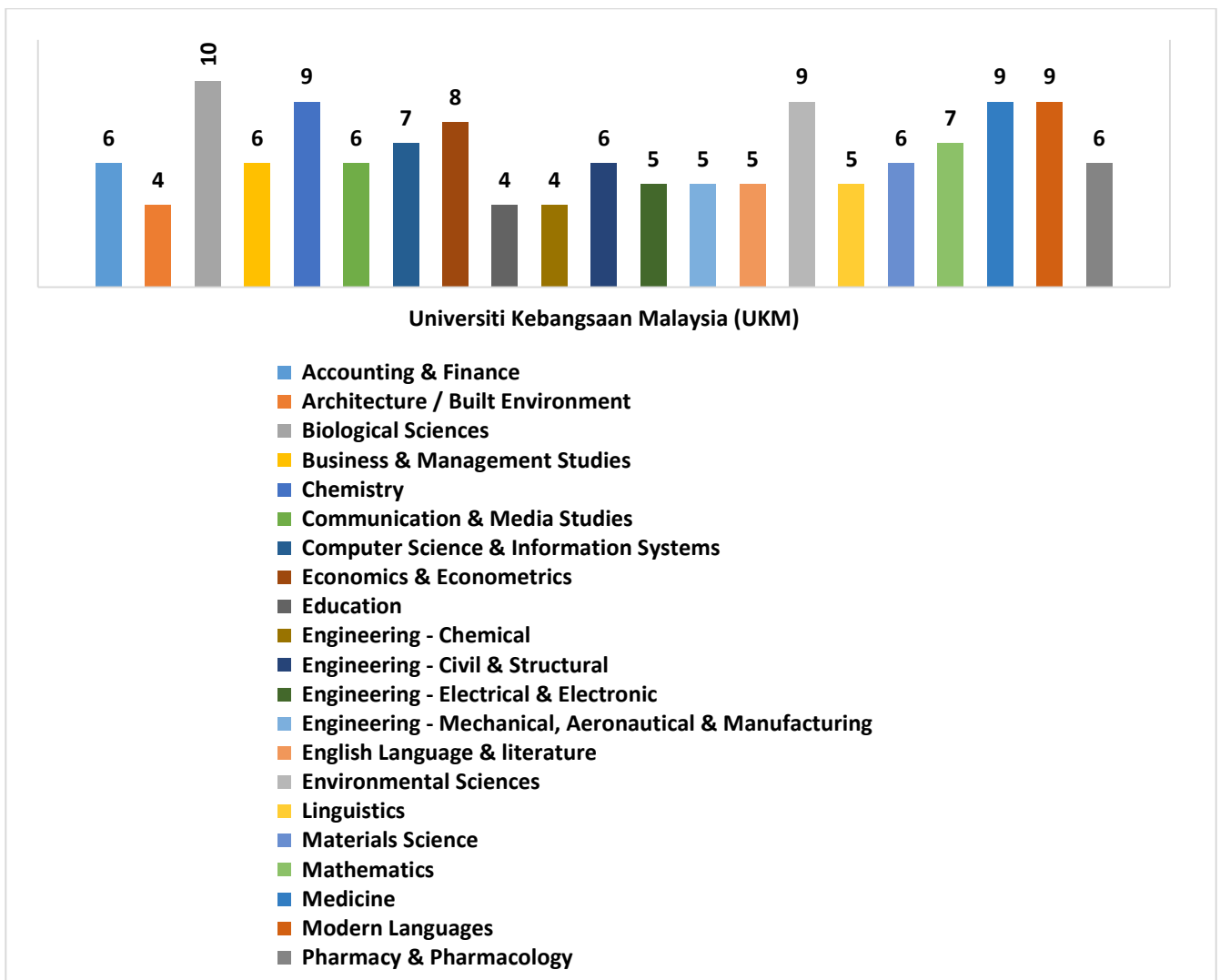
Subject-wise rank of UPM in QS World University Rankings by Subject



Subject-wise rank of UMS in QS World University Rankings by Subject



Subject-wise rank of IIUM in QS World University Rankings by Subject



Subject-wise rank of UKM in QS World University Rankings by Subject



Subject-wise rank of UM in QS World University Rankings by Subject

Times Higher Education World University Rankings 2016-2017

The *Times Higher Education* World University Rankings, founded in 2004, provide the definitive list of the world's best universities, evaluated across teaching, research, knowledge transfers and international outlook. Times uses 13 carefully calibrated performance indicators to provide the most comprehensive and balanced comparisons, trusted by students, academics, university leaders, industry and governments.

Malaysian universities in Times Higher Education World University Rankings

The Times Higher Education World University Rankings 2016-2017 list the 980 top universities in the world, while this number was just 800 in 2015-2016. Accordingly, the number of Malaysian universities in this ranking system has increased from 5 to 7 ones.

Malaysian universities in THE World University Rankings 2016-2017

Rank	Name	No. of FTE Students	Student:Staff Ratio	International Students	Female:Male Ratio
601-800	Universiti Kebangsaan Malaysia	20,427	11.8	10%	66:34:00
601-800	Universiti Putra Malaysia	24,161	12	17%	73:27:00
601-800	Universiti Sains Malaysia	28,592	14.7	8%	62:38:00
601-800	Universiti Teknologi Malaysia	21,992	11.9	19%	49:51:00
601-800	Universiti Teknologi Petronas	5,466	14.1	28%	36 : 64
801+	Universiti Teknologi MARA	59,795	15.3	n/a	65:35:00
801+	Universiti Utara Malaysia	12,538	12.1	18%	73:27:00

Based on the number of top universities in THE World University Rankings 2016-2017, Malaysia with 7 universities is ranked 32.

Countries' Rank according to the No. of top universities in THE World University Rankings
2016-2017

Country	Rank	No. of Top Universities
United States	1	148
United Kingdom	2	91
Japan	3	69
China	4	52
Germany	5	41
Italy	6	38
Australia	7	35
India	8	31
France, Brazil, Spain	9	27
Taiwan, Canada	12	26
Korea, Republic of	14	25
Russian Federation	15	24
Turkey	16	18
Iran, Netherlands	17	13
Czech Republic	19	12
Sweden	20	11
Switzerland, Chile	21	10
Finland, Thailand, Poland	23	9
Portugal, South Africa, New Zealand, Ireland, Egypt, Belgium	26	8
Denmark, Hungary, Malaysia , Mexico, Pakistan	32	7
Austria, Greece, Hong Kong, Israel	37	6
Norway	41	5
Romania, Saudi Arabia, Ukraine	42	4
United Arab Emirates, Morocco, Jordan, Colombia	45	3
Cyprus, Estonia, Indonesia, Latvia, Lithuania, Singapore, Slovakia, Slovenia, Tunisia, Venezuela	49	2
Uganda, Sri Lanka, Serbia, Qatar, Luxembourg, Macao, Lebanon, Kenya, Kuwait, Nigeria, Oman, Philippines, Iceland, Georgia, Ghana, Costa Rica, Croatia, Belarus, Algeria, Argentina, Bulgaria	59	1

Number of Malaysian universities' rank in THE World University Rankings over past 6 years

Ranking Year	2011	2012-2015	2016	2017
Number of Malaysian Universities	0	0	5	7
Number of Universities	200	400	800	1000

List of Malaysian universities in THE World University Rankings over past 6 years

Univeristy	2011-2015	2,016	2017
Universiti Teknologi Malaysia	n/a	401-500	601-800
Universiti Putra Malaysia	n/a	601-800	601-800
Universiti Sains Malaysia	n/a	601-800	601-800
Universiti Kebangsaan Malaysia	n/a	601-800	601-800
Universiti Teknologi Petronas	n/a	n/a	601-800
Universiti Teknologi MARA	n/a	601-800	801+
Universiti Utara Malaysia	n/a	n/a	801+

Times Higher Education Asia University Rankings 2016

The Times Higher Education Asia University Rankings 2016 use the same 13 performance indicators as the THE World University Rankings, but have been recalibrated to reflect the attributes of Asia's institutions.

The universities are judged across all of their core missions – teaching, research, knowledge transfer and international outlook – to provide the most comprehensive and balanced comparisons available.

Singapore is home to the top two universities in Asia for the first time, while mainland China and Japan are the most-represented nations. There is also success for Hong Kong, South Korea and Taiwan.

This year's table ranks 200 institutions from 22 countries, up from 100 institutions in 14 counties last year. Several nations including Bangladesh, Indonesia, Jordan, Oman, Pakistan and Qatar are represented for the first time in the four-year history of the ranking.

Malaysian universities in Times Higher Education Asia University Rankings 2016

Rank	Name	No. of FTE Students	Student:Staff Ratio	International Students	Female:Male Ratio
70	Universiti Teknologi Malaysia	21,992	11.9	19%	49:51:00
121–130	Universiti Putra Malaysia	24,161	12	17%	73:27:00
141–150	Universiti Sains Malaysia	28592	14.7	0.08	2.609722222
161–170	Universiti Kebangsaan Malaysia	20427	11.8	0.1	2.773611111

Malaysian universities in Times Higher Education Asia University Rankings 2016

University	2016 Rank	2013-2015 rank	2012 rank
Universiti Putra Malaysia	101-150	n/a	n/a
Universiti Teknologi Malaysia	101-150	n/a	n/a
Universiti Kebangsaan Malaysia	n/a	n/a	98

BRICS & Emerging Economies University Rankings 2017

The Times Higher Education BRICS & Emerging Economies University Rankings 2017 includes only institutions in countries classified as “advanced emerging”, “secondary emerging” or “frontier” by the FTSE, including the BRICS nations of Brazil, Russia, India, China and South Africa.

The rankings use the same 13 performance indicators as the flagship THE World University Rankings to judge institutions on their teaching, research, knowledge transfer and international outlook. But they are recalibrated to reflect the development priorities of universities in emerging economies.

For the first time the ranking includes 300 universities, up from 200 institutions last year, and 100 institutions in the previous two years. China once again dominates the list of the best universities in the BRICS and emerging economies, with 52 – or more than one in six – places. A staggering 44 of these make the top 200, five more than last year, while six make the elite top 10.

This year's table includes 41 countries, up from 35 last year, with institutions in Bulgaria, Latvia, the Philippines and Tunisia featuring for the first time.

Countries eligible for the BRICS and Emerging Economies ranking:

Country eligibility is determined by FTSE classification.

Advanced emerging:

Brazil, Czech Republic, Greece, Hungary, Malaysia, Mexico, Poland, South Africa, Taiwan, Thailand, Turkey

Secondary emerging:

Chile, China, Colombia, Egypt, India, Indonesia, Pakistan, Peru, Philippines, Qatar, Russia, UAE

Frontier:

Bahrain, Bangladesh, Botswana, Bulgaria, Cote d'Ivoire, Croatia, Cyprus, Estonia, Ghana, Jordan, Kenya, Latvia, Lithuania, Macedonia, Malta, Mauritius, Morocco, Nigeria, Oman, Palestine, Romania, Serbia, Slovakia, Sri Lanka, Tunisia, Vietnam

BRICS and Emerging Economies ranking in 2014 covered 100 universities in 14 countries while in 2015 this number increased to 200 universities of 22 countries.

Malaysian universities in in Times Higher Education BRICS & Emerging Economies University Rankings			
University	2014 Rank	2015 rank	2016 Rank
Universiti Teknologi Malaysia	n/a	93	56
Universiti Putra Malaysia	95	n/a	103
Universiti Sains Malaysia	n/a	n/a	112
Universiti Kebangsaan Malaysia	77	n/a	158

Malaysian universities in Times Higher Education BRICS & Emerging Economies University Rankings 2017					
Rank	Name	No. of FTE Students	Student:Staff Ratio	International Students	Female:Male Ratio
89	Universiti Putra Malaysia	24161	12	0.17	3.060416667
91	Universiti Teknologi Petronas	5466	14.1	0.28	36 : 64
100	Universiti Teknologi Malaysia	21992	11.9	0.19	2.077083333
114	Universiti Sains Malaysia	28592	14.7	0.08	2.609722222
136	Universiti Kebangsaan Malaysia	20427	11.8	0.1	2.773611111
201-250	Universiti Utara Malaysia	12538	12.1	0.18	3.060416667
251-300	Universiti Teknologi MARA	59795	15.3	n/a	2.732638889

U.S. News Best Global Universities Rankings

U.S. News is one of the most accredited ranking systems in the world. The overall Best Global Universities rankings encompass the top 1,000 institutions spread across 65 countries – up from the top 750 universities in 57 countries ranked last year. The first step in producing these rankings, which are powered by [Clarivate Analytics InCites™](#), involved creating a pool of 1,262 universities that was used to rank the top 1,000 schools.

To create the pool of 1,262, U.S. News first included the top 200 universities in the results of Clarivate Analytics' global reputation survey, described further below. Next, U.S. News added institutions that had published the largest number of articles during the most recent five-year period (2010-2014) that was used for the bibliometric data, de-duplicated with the top 200 from the reputation survey.

As a result of these criteria, many stand-alone graduate schools, including Rockefeller University and the University of California—San Francisco, were eligible to be ranked and were included in the ranking universe.

The second step was to calculate the rankings using the 12 indicators and weights that U.S. News chose to measure global research performance. Each school's profile page on [usnews.com](#) for the top 1,000 universities lists the overall global score as well as numerical ranks for the 12 indicators, allowing students to compare each school's standing in each indicator.

The indicators and their weights in the ranking formula are listed in the table below, with related indicators grouped together; an explanation of each follows.

The bibliometric indicators used in the U.S. News ranking analysis are based on data from Web of Science™ for the five-year period from 2010 to 2014.

Malaysia in U.S. News Best Global Universities rankings

In 2017 U.S. News Ranking list, 5 universities of Malaysia were among world's top 1000 universities.

Malaysian Universities in U.S. News Ranking

University	Rank in 2015	Rank in 2016	Rank in 2017
Universiti Malaya (UM)	423	422	356
Universiti Sains Malaysia (USM)	-	557	576
Universiti Teknologi Malaysia	-	646	639
Universiti Putra Malaysia (UPM)	-	638	670
Universiti Kebangsaan Malaysia (UKM)	-	733	783

Top 10 Universities of Islamic world in 2017 U.S. News Ranking

University	country	Rank in Islamic World	Universal Rank
Bogaziçi Üniversitesi	Turkey	1	166
King Abdulaziz University (KAU)	Saudi Arabia	2	182
Middle East Technical University	Turkey	3	231
King Abdullah University of Science & Technology	Saudi Arabia	4	243
Istanbul Technical University	Turkey	5	257
Universiti Malaya (UM)	Malaysia	6	356
Bilkent University	Turkey	7	389
Sharif University of Technology	Iran	8	405
King Saud University	Saudi Arabia	9	427
University of Tehran	Iran	10	448

Ranking Islamic World Universities by field

U.S. News Ranking in 2017 has ranked 250 universities in 22 subject fields and has introduced top 400 universities in each field.

Rank of Malaysian Universities in 4 subject fields

University	Agricultural Sciences	Chemistry	Materials Science	Engineering
Universiti Malaya (UM)	-	228	209	57
Universiti Sains Malaysia (USM)	-	-	186	95
Universiti Teknologi Malaysia	-	-	-	130
Universiti Kebangsaan Malaysia (UKM)	-	-	-	207
Universiti Putra Malaysia (UPM)	45	-	-	245

The World's Most Innovative Universities Ranking

Now in its second year, the list ranks the educational institutions doing the most to advance science, invent new technologies and help drive the global economy. Unlike other rankings that often rely entirely or in part on subjective surveys, Reuters relies exclusively on empirical data such as patent filings and research paper citations. 2016 results show that big breakthroughs - even just one highly influential paper or patent - can drive a university way up the list, but when that discovery fades into the past, so does its ranking. According, consistency is key, with truly innovative institutions putting out groundbreaking work year after year.

To compile its ranking of the world's most innovative universities, the IP & Science division of Thomson Reuters began by identifying more than 600 global organizations - including educational institutions, nonprofit charities and government-funded labs - that publish the most academic research. Then they evaluated each candidate on 10 different metrics and ranked them based on their performance.

Malaysia in the World's Most Innovative Universities Ranking

Malaysia is the only OIC-member state in world's most innovative universities list. Universiti Putra Malaysia (UPM) and Universiti Malaya (UM) are respectively ranked 73 and 75 in this list.

Asian Countries in the world's most innovative universities list

Country	no. of Innovative Universities
China	22
South Korea	20
Japan	20
Australia	6
Singapor	2
India	2
Malaysia	2
Newsland	1

Shanghai Academic Ranking of World Universities (ARWU)

Starting from 2003, ARWU has been presenting the world Top 500 universities annually based on a set of objective indicators and third-party data. ARWU has been recognized as the precursor of global university rankings and the most trustworthy league table. ARWU adopts six objective indicators to rank world universities, including the number of alumni and staff winning Nobel Prizes and Fields Medals, the number of Highly Cited Researchers, the number of articles published in journals of Nature and Science, the number of articles indexed in Science Citation Index - Expanded and Social Sciences Citation Index, and per capita performance.

More than 1200 universities are actually ranked by ARWU every year and the best 500 universities are published. Shanghai Ranking Consultancy is a fully independent organization dedicating to research on higher education intelligence and consultation. It has been the official publisher of the Academic Ranking of World Universities since 2009.

Malaysia in Shanghai Academic Ranking of World Universities

Since 2011, Malaysian universities have been among top 500 universities of ARWU list.

Year	2011	2012	2013	2014	2015	2016
Number of Malaysian universities in ARWU list	1	1	1	2	2	3

University of Malaya was the first university entering this list in 2011. Universiti Sains Malaysia was the second in 2014, and Universiti Kebangsaan Malaysia was the third university joining ARWU list in 2016.

Malaysian Universities in ARWU list

Year	University	Universal Rank	Rank in Malaysia
2011	Universiti Malaya (UM)	401-500	1
2012	Universiti Malaya (UM)	401-500	1
	Universiti Malaya (UM)	401-500	1
2014	Universiti Malaya (UM)	301-400	1
	Universiti Sains Malaysia (USM)	401-500	2
2015	Universiti Malaya (UM)	301-400	1
	Universiti Sains Malaysia (USM)	401-500	2
2016	Universiti Kebangsaan Malaysia (UKM)	401-500	1 to 3
	Universiti Malaya (UM)	401-500	
	Universiti Sains Malaysia (USM)	401-500	

ShanghaiRanking's Academic Ranking of World Universities by Broad Subject Fields 2016

Shanghai Ranking Consultancy releases the 2016 Academic Ranking of World Universities by Broad Subject Fields (ARWU-FIELD). Top 200 universities in five broad subject fields are published.

Academic Ranking of World Universities in Natural Sciences and Mathematics (SCI)

Academic Ranking of World Universities in Engineering/Technology and Computer Sciences (ENG)

Academic Ranking of World Universities in Life and Agriculture Sciences (LIFE)

Academic Ranking of World Universities in Clinical Medicine and Pharmacy (MED)

Academic Ranking of World Universities in Social Science (SOC)

The ranking list for ARWU - FIELD includes every institution that has any Nobel Laureates, Fields Medals, and Highly-Cited Researchers. In addition, major universities of every country with significant amount of articles indexed by Science Citation Index-Expanded (SCIE) and Social Science Citation Index (SSCI) are also included. In total, more than 1200 institutions have been actually ranked in each broad subject field.

Malaysia in ranking list for ARWU – FIELD

In 2016, 3 universities of Malaysia including University of Malaya, Universiti Sains Malaysia, and Universiti Kebangsaan Malaysia only in engineering field entered the list of top 200 universities of the world. Universiti Sains Malaysia has been in this list since 2014.

Top Universities of Malaysia in engineering field

Year	University	Universal Rank	Rank in Malaysia
2014	Universiti Sains Malaysia (USM)	101-150	1
2015	Universiti Sains Malaysia (USM)	101-150	1
2016	Universiti Sains Malaysia (USM)	101-150	1 to 2
	Universiti Kebangsaan Malaysia (UKM)	101-150	
	Universiti Malaya (UM)	151-200	3

The ranking list for ARWU - FIELD includes every institution that has any Nobel Laureates, Fields Medals, and Highly-Cited Researchers. In addition, major universities of every country with significant amount of articles indexed by Science Citation Index-Expanded (SCIE) and Social Science Citation Index (SSCI) are also included. In total, more than 1200 institutions have been actually ranked in each broad subject field.

Shanghai Ranking's Global Ranking of Academic Subjects 2016

Engineering Fields	Total Number of Universities	Number of Malaysian Universities	University	Rank
Chemical Engineering	300	2	Universiti Sains Malaysia (USM) Universiti Malaya (UM)	151-200
Energy Science & Engineering	200	2	Universiti Malaya (UM) Universiti Teknologi Malaysia	101-150
Civil Engineering	100	1	Universiti Teknologi Malaysia	76-100
Electrical & Electronic Engineering	400	1	Universiti Malaya (UM)	301-400
Mechanical Engineering	300	2	Universiti Teknologi Malaysia Universiti Malaya (UM)	201-300
Environmental Science & Engineering	400	1	Universiti Sains Malaysia (USM)	201-300
Materials Science & Engineering	600	3	Universiti Teknologi Malaysia Universiti Malaya (UM) Universiti Sains Malaysia (USM)	401-600