



BERILMU BERBAKTI I
WITH KNOWLEDGE WE SERVE I

Towards a Research University of International Ranking

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23rd January 2018

Research University: *Introduction*

Vision

Seeks to actively participate in new adventures of ideas, experiment with innovative methods, and take intellectual initiatives to further discover and expand the frontier of knowledge

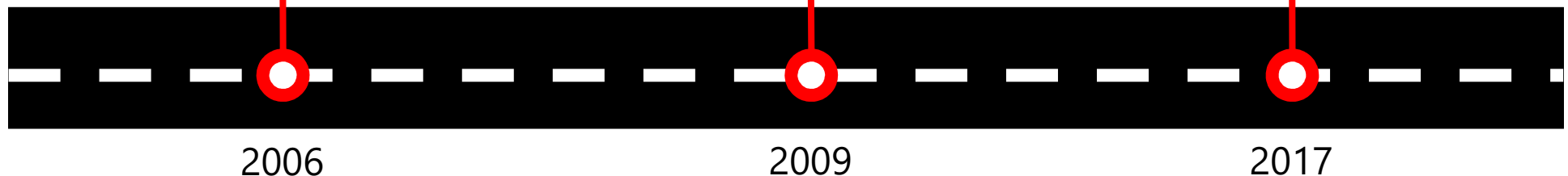
Mission

To be an engine of growth of the nation where scholars and students exchange ideas as well as conduct research in a conducive environment that nurtures exploration and creativity to discover knowledge and create wealth, leading towards an improved quality of life

UM, UKM, USM & UPM
received RU status

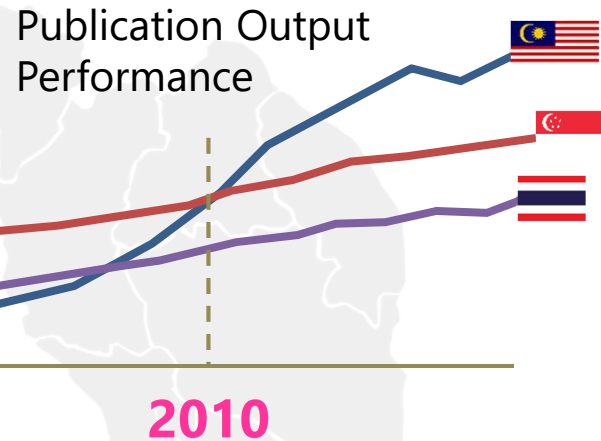
UTM received
RU status

RU 10th Year
Anniversary



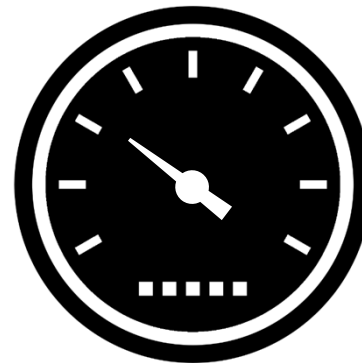
Research & Development in M'sia: Current Scenario Towards Progressive Malaysia

02



03

Ability to attract industrial partnership



63.1%

01

Return of Research Investment
RM 6.18 bil return
from RM 3.98 bil
(2007-2016, MyRA)

04



Academic collaboration with over 179 nations around the world

05



Global Prominence

Fruits of Labour After 10th Years of Research Universities






Research & Development in M'sia and Beyond: *Future Scenario*

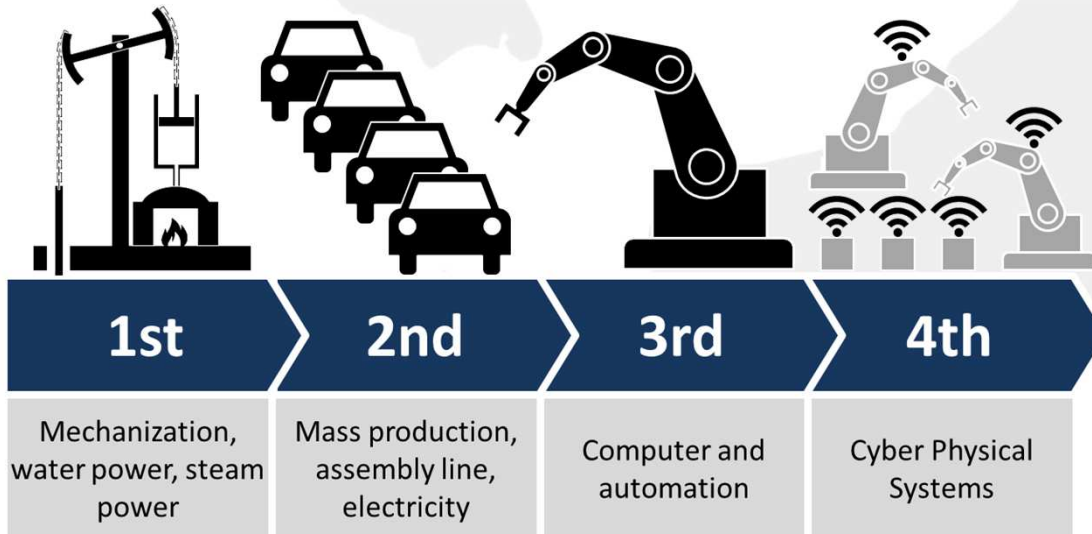
Global Outlook

Top 5 Mega Trends

-  Rapid urbanisation
-  Demographic & social change
-  Technological breakthroughs
-  Shift in global economic power
-  Climate change & resource scarcity

Top 5 Global Risks

-  Extreme weather events
-  Large-scale involuntary migration
-  Major natural disasters
-  Large-scale terrorist attacks
-  Massive incident of data fraud/theft



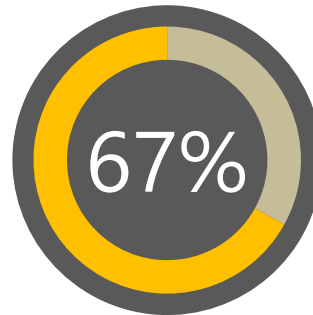
Highlights:

Human Capital Development

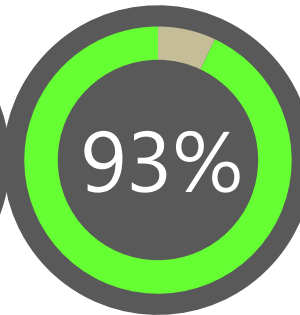
Academic Staffs

Academic staffs active in **research**

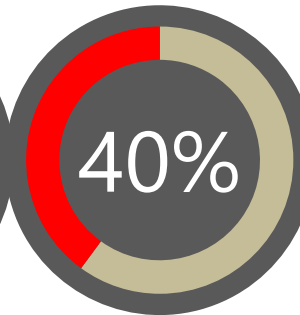
Academic staff as **Principal Investigator**



67%



93%



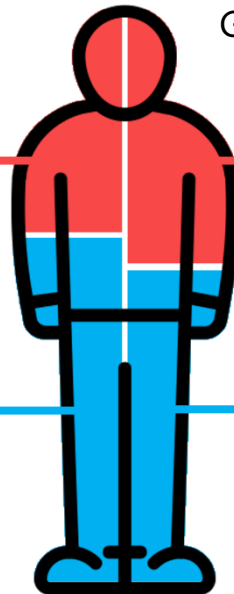
40%

Principal Investigators were **below 40 years old**

Postgraduates

91%

Graduate Employability



39%

SS PG Graduated

42%

SS PG Enrolment

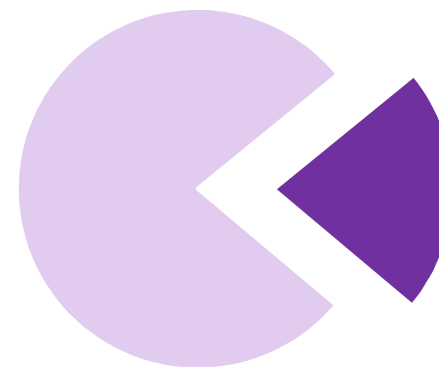
61%

S&T PG Graduated

58%

S&T PG Enrolment

Post-doctorate



+56%

Local post-doctorate in 2014 compared to 2012

78% international in-bound post-doctorate vs 22% local candidates (total 1,309 in 2013/4)



UPM AT A GLANCE

140+
DEGREE
PROGRAMS

3000 HECTARE
MAIN CAMPUS
+ BRANCH CAMPUS

1700+
ACADEMIC
STAFFS

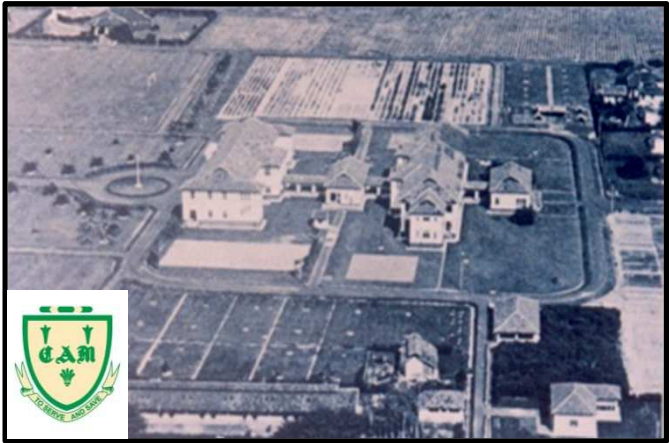
100+
STUDENT
ORGANIZATIONS

26,000 STUDENT FROM
60 COUNTRIES
40% POSTGRADUATE STUDENT
17% INTERNATIONAL STUDENTS

16 FACULTIES
10 INSTITUTES
1 SCHOOL
1 ACADEMY

120+
NATIONAL
ATHLETES

From School to University (82 years of history)



School of Agriculture, 1931
Malaya



College of Agriculture, 1947
Malaya



Universiti Putra Malaysia 1997



Universiti Pertanian
Malaysia 1971

PIONEERING UNIVERSITY WITH PROVEN TRACK-RECORD

The first to offer an **agriculture** program in Malaysia



The first certified **halal product** research institute Malaysia (R&D)



UPM professor was the first in Asia to win the **Carlos. J. Finlay Award** in Microbiology



The first to offer **Bioscience, Biotechnology, Veterinary, Food Science & Technology, Forestry** programs in Malaysia



The first and only international **Biomass Technology Centre** in the country undertaking R&D in tropical biomass



The first and only national **ageing research institute** Malaysia





UPM ranks in the Top 1.0% of universities worldwide

229th

QS World University Rankings

17th

QS Top 50 Under 50

REUTERS

Top 75

Asia's Most Innovative Universities

36th

QS Asia University Rankings

PUTRA GLOBAL



200

34th

UI GreenMetric University Rankings

5 Star



QS Star Universities Ratings

89th

THE BRICS & Emerging Economics World Rankings

Agriculture Science program rankings

Top 100

QS World University Ranking by Subjects

42nd

US News & World Report

67th

National Taiwan University Ranking





Congratulations!

UPM UNIVERSITI
PUTRA
MALAYSIA

Ranked in
36th
Asia



2017/2018

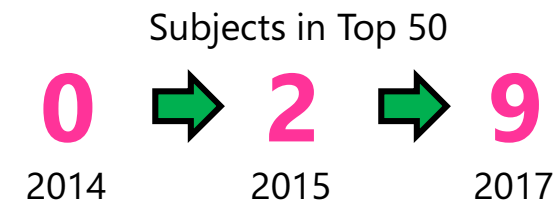
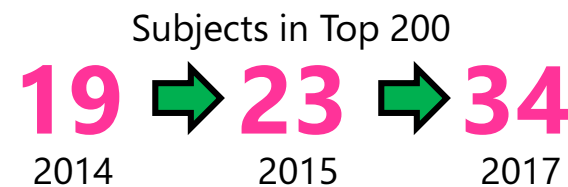
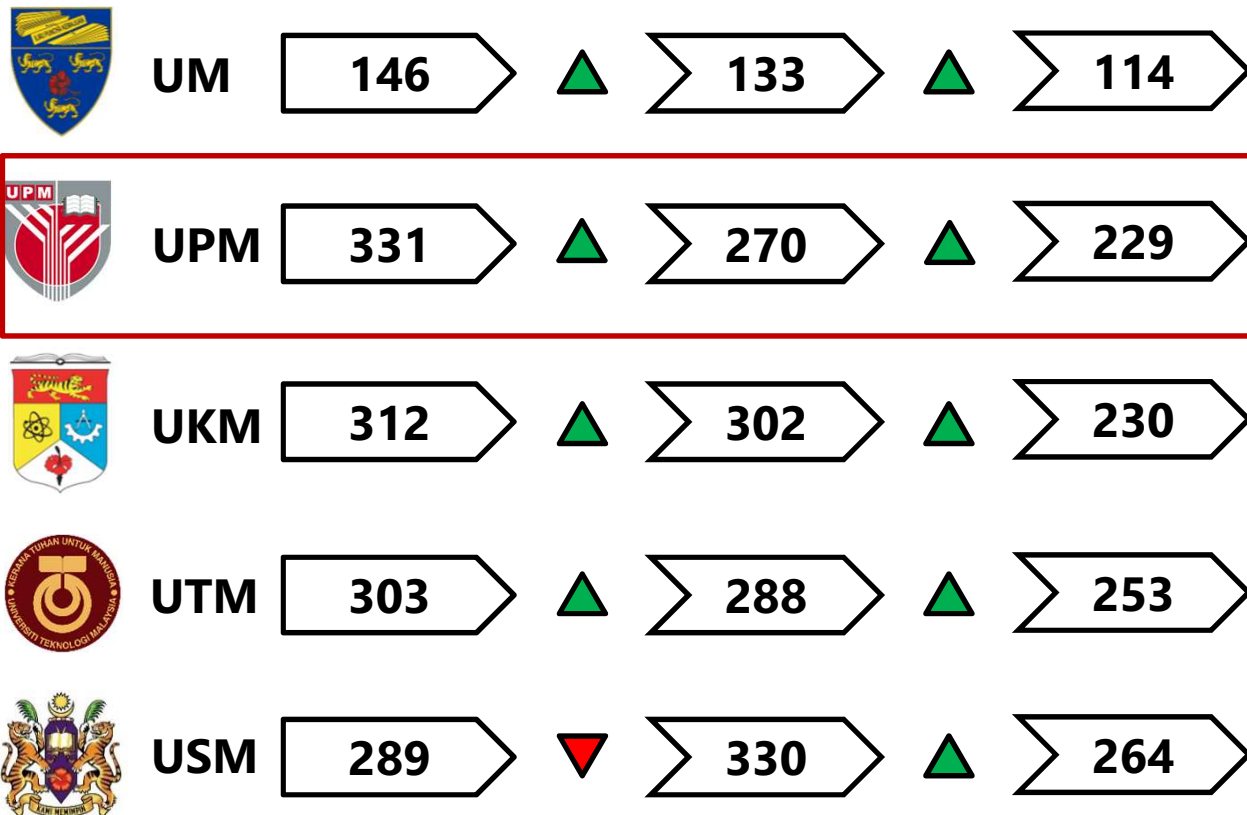
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BERILMU BERBAKTI
WITH KNOWLEDGE WE SERVE

Global Prominence



MRUN is Expected to Break top 100 by 2020





Agriculture & Forestry	51-100
Engineering – Chemical	51-100
Engineering – Mechanical , Aeronautical & Manufacturing	51-100
Architecture/ Built Environment	101-150
Pharmacy & Pharmacology	101-150
Environmental Sciences	101-150
English Language & Literature	101-150
Engineering – Civil & Structural	101-150
Engineering – Electrical	101-150
Education	101-150
Computer Sciences & Information Systems	101-150
Modern Languages	151-200
Accounting & Finance	151-200
Material Sciences	151-200
Business & Management Studies	151-200
Earth & Marine Science	151-200

Top 100
3 subjects

UPM ranked in the
top 200 in the world
in 16 different
subject areas

Top 150
8 subjects

Top 200
5 subjects



QS METHODOLOGY



QS World University Rankings: **Methodology**
What information is collected, and how is this used to compile the ranking?

- 40%** **Academic reputation**
Based on a global survey of academics
- 10%** **Employer reputation**
Based on a global survey of graduate employers
- 20%** **Faculty/student ratio**
An indication of commitment to teaching
- 20%** **Citations per faculty**
An indication of research impact
- 5%** **International student ratio**
Measuring international diversity of the student community
- 5%** **International staff ratio**
Measuring international diversity of the academic faculty

www.TopUniversities.com

Total number of citations received by all papers produced by an institution across a five-year period by the number of faculty members at the institution.



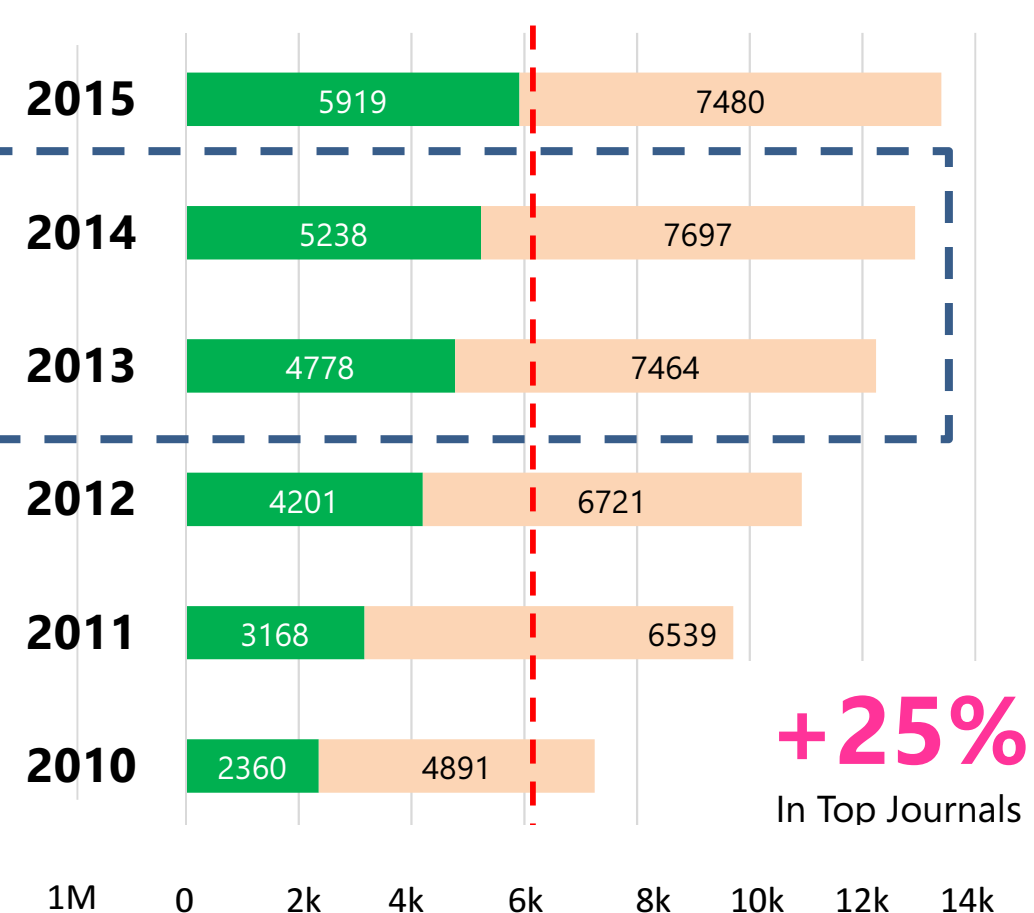
Highlights: *Publications*

Citations



- Q1/Q2 ranked journal articles
- Others journal articles

Indexed Publications



MRUN Produced Roughly Half of Malaysia's Indexed Publications*

*source: scival.com (as of 2016) & MyRA



No.	Assessment Section	Benchmark Scores
1	Section B: Quantity & Quality of Researchers	15
2	Section C: Quantity & Quality of Research	35
3	Section D: Quantity & Quality of Postgraduates	10
4	Section E: Innovation	15
5	Section F: Professional Services and Gifts	10
6	Section G: Networking and Linkages	12
7	Section H: Support Facilities	3
TOTAL		100



SECTION B: QUANTITY AND QUALITY OF RESEARCHERS 2018

Criteria	Unit Data	Input Data	Marks Obtained	Benchmark	Benchmark Scores
1. Critical Mass					
Percentage of Academic Staff involved as Principal Investigator of Research Grants		0.00	0.00	80.00	4.50
a. University Grants	% of staff	0.00	0.00	15.00	0.68
b. National Grants	% of staff	0.00	0.00	25.00	1.58
c. Industrial Grants	% of staff	0.00	0.00	20.00	0.90
d. International Grants	% of staff	0.00	0.00	20.00	1.35

2. Research Grants for Academic Staff					
a. Total Amount of Public Funds from Government Agencies/ Parent Bodies/ Home Universities/ Main Campus					
i. Total Amount Pledged for New Projects	-	-	-	-	-
ii. Total Amount Received for Active Projects	RM/staff	0.00	0.00	24,000.00	5.25
b. Total Amount of Private/ Industrial Funds (including Contract Research)					
i. Total Amount Pledged for New Projects	-	-	-	-	-
ii. Total Amount Received for Active Projects	RM/staff	0.00	0.00	12,000.00	2.10
c. Total Amount of International Funds					
i. Total Amount Pledged for New Projects	-	-	-	-	-
ii. Total Amount Received for Active Projects	RM/staff	0.00	0.00	24,000.00	3.15
3. Research Expenditure for All Projects (Data from Bursary)					
a. Total Amount of Research Grants Received in the Year	% of grant amount spent	0.00	0.00	0.00	0.00
b. Total Amount of Research Grants Spent					



Seksyen MyRA I	Seksyen MyRA II	KPI	Penjelasan	Bench Marking / Skor (MyRA I)	Bench Marking / Skor (MyRA II)
C	C	KUANTITI DAN KUALITI PENYELIDIKAN QUANTITY AND QUALITY OF RESEARCH		30%	35%
C1	C1	Penerbitan <i>Publications</i>			
C1 a (i)	C1 a (i)	Bilangan penerbitan dalam jurnal berindeks SCOPUS / WOS/ ERA <i>Total number of publications in SCOPUS / WOS / ERA indexed journals</i>	<p>Bilangan penerbitan di dalam <i>jurnal berindeks SCOPUS / WOS / ERA</i> yang dihasilkan oleh staf akademik yang aktif daripada institusi (terdapat nama institusi sebagai afiasi pada penerbitan berkenaan).</p> <p>Jurnal yang diterbit oleh penerbit berikut tidak diambilkira kecuali jurnal yang terdapat dalam <i>Thomson Journal Citation Report (JCR)</i> sahaja:</p> <ul style="list-style-type: none"> ➤ <i>Academic Journal</i> (www.academicjournals.org); ➤ <i>Eurojournal</i> (www.eurojournals.com); ➤ <i>CG Publishing</i> (www.commongroundpublishing.com); dan ➤ <i>Africa World Press, Inc.</i> (www.africaworldpressbooks.com). <p>(senarai jurnal akan dikemaskini dari semasa ke semasa)</p> <p>Nota:</p> <ul style="list-style-type: none"> • Semua penerbitan yang bukan berbentuk artikel umpamanya <i>abstract, book review, editorial, meeting abstract, letters to editor</i> dan <i>eratum</i> tidak diambil kira. • Bagi MyRA I, senarai jurnal di bawah MyCite juga diambilkira. 	2 <i>per staff</i>	3 <i>per staff</i>



Seksyen MyRA I	Seksyen MyRA II	KPI	Penjelasan	Bench Marking / Skor (MyRA I)	Bench Marking / Skor (MyRA II)
C1 a (ii)	C1 a (ii)	Jumlah penerbitan dalam pascasidang persidangan berindeks SCOPUS / WOS/ ERA <i>Total number of publications in SCOPUS / WOS / ERA indexed conference proceedings</i>	Bilangan penerbitan di dalam pascasidang persidangan berindeks SCOPUS / WOS / ERA.	0.5 <i>per staff</i>	0.5 <i>per staff</i>
C1 b	C1 b	Impak Penerbitan <i>Publication Impact</i>		-	-
C1 b (i)	C1 b (i)	Jumlah sitasi penerbitan <i>Total citation of publications</i>	<ul style="list-style-type: none"> Jumlah sitasi (dalam SCOPUS / WOS) dalam tempoh 5 tahun terakhir bagi 5 TAHUN PENERBITAN yang telah dihasilkan institusi sehingga tahun dinilai. Kumulatif sitasi (dalam SCOPUS/WOS) bagi penerbitan 5 tahun terakhir yang telah dihasilkan oleh institusi sehingga tahun dinilai. Bagi jurnal yang tersenarai dalam ERA (tetapi tidak disenaraikan dalam SCOPUS / WOS), pengiraan sitasi dilakukan menggunakan sitasi berpandukan <i>Google Scholar</i>. 	10,000 <i>per institution</i>	100,000 <i>per institution</i>
Tidak Berkaitan	C1 b (ii)	Bilangan artikel yang diterbitkan di dalam jurnal <i>Quartile 1</i> dan <i>Quartile 2</i> <i>No. of articles published in Q1 and Q2 journals</i>	<ul style="list-style-type: none"> Penerbitan dalam jurnal yang tersenarai dalam Q1 dan Q2 JCR pada DUA (2) tahun ke belakang. Sebagai contoh, penerbitan pada tahun 2014 akan menggunakan JCR tahun 2012. Jika jurnal yang tersenarai lebih daripada SATU bidang, rating yang tertinggi diambil kira. 	-	70%



Seksyen MyRA I	Seksyen MyRA II	KPI	Penjelasan	Bench Marking / Skor (MyRA I)	Bench Marking / Skor (MyRA II)
Tidak Berkaitan	C1 b (iii)	Peratusan penerbitan di dalam jurnal Q1 dan Q2 <i>Percentage of publications in Q1 and Q2 journals</i>	<i>Auto calculated</i> <ul style="list-style-type: none">Jumlah pembawa untuk kiraan peratus merujuk kepada jumlah yang dinyatakan di dalam Seksyen C1 a (i).	-	-
C1 c	C1 c	Jumlah penerbitan dalam jurnal tak berindeks <i>Total number of publications in other journals</i>	<ul style="list-style-type: none">Bilangan penerbitan di dalam jurnal selain yang dinyatakan di dalam Seksyen C1 a (i) dan tidak termasuk pascasidang persidangan yang telah dinyatakan di dalam Seksyen C1 a (ii).	2 <i>per staff</i>	2 <i>per staff</i>
C1 d	C1 d	Buku Penyelidikan dan bab dalam buku penyelidikan <i>Research Book and Chapters</i>		-	-
C1 d (i)	C1 d (i)	Bilangan Buku Penyelidikan <i>Number of research books</i>	<ul style="list-style-type: none">Bilangan buku ilmiah yang diterbitkan hasil daripada penyelidikan pada tahun dinilai. <p>Nota:</p> <ul style="list-style-type: none">Penerbit yang berdaftar dengan MAPIM atau Pusat Sitasi diambilkira. Contoh Penerbit yang tidak diambilkira:<ul style="list-style-type: none">- LAMBERT Publisher	0.2 <i>per staff</i>	0.2 <i>per staff</i>



Seksyen MyRA I	Seksyen MyRA II	KPI	Penjelasan	Bench Marking / Skor (MyRA I)	Bench Marking / Skor (MyRA II)
C1 d (ii)	C1 d (ii)	<p>Bilangan bab dalam buku penyelidikan</p> <p><i>Number of chapters in research books</i></p>	<ul style="list-style-type: none"> Bilangan bab dalam buku penyelidikan selain daripada bab yang diambil kira dalam buku di Seksyen C1 d (i) yang diterbitkan pada tahun dinilai. <p>Nota:</p> <ul style="list-style-type: none"> Penerbit yang berdaftar dengan MAPIM atau Pusat Sitasi diambilkira. Contoh Penerbit yang tidak diambilkira: <ul style="list-style-type: none"> - LAMBERT Publisher 	0.8 <i>per staff</i>	0.8 <i>per staff</i>
C1 e	C1 e	<p>Bilangan Kertas Polisi /</p> <p><i>Policy papers</i></p>	<ul style="list-style-type: none"> Kertas polisi yang menyumbang kepada pembentukan / penambahbaikan / pemansuhan dasar / fatwa / akta dan seumpamanya yang telah diterima pakai oleh pemegang taruh (<i>stakeholder</i>) sama ada agensi kerajaan, swasta atau antarabangsa (selain daripada institusi yang dinilai). <p>Nota: Sekiranya pemilik dasar telah menyenaraikan nama penyumbang dalam kertas polisi maka tidak memerlukan bukti-bukti di bawah:</p> <ul style="list-style-type: none"> ➤ Kertas polisi, <i>blueprint</i>, pelan induk, kertas kajian dan sebagainya; dan ➤ Bukti hubungkait yang ada menyatakan penghargaan kepada pusat, kertas kerja yang menjadi rujukan kertas polisi dan mempunyai afiliasi universiti; dan ➤ Bukti yang menunjukkan hasil kajian digunapakai; dan ➤ Surat lantikan staf menjadi ketua / ahli projek kajian. 	0.01 <i>per staff</i>	0.01 <i>per staff</i>



Seksyen MyRA I	Seksyen MyRA II	KPI	Penjelasan	Bench Marking / Skor (MyRA I)	Bench Marking / Skor (MyRA II)
C1 f	C1 f	<p>Lain-lain penerbitan (laporan teknikal, artikel di dalam majalah, surat khabar, karya asli, penerbitan dari persidangan, digital atau media cetak)</p> <p><i>Other publications (technical reports, articles in magazines, newsletters, original writings and publications from conferences, digital or print media)</i></p>	<ul style="list-style-type: none"> Bilangan artikel di dalam majalah, surat khabar, karya asli, penerbitan dari persidangan, digital atau media cetak dan lain-lain. 	2 <i>per staff</i>	0.1 <i>per staff</i>
C2	C2	<p>Grant Penyelidikan staf akademik</p> <p><i>Research grants for academic staff</i></p>	<p>Nota Umum:</p> <ul style="list-style-type: none"> Data berdasarkan jumlah peruntukan yang diluluskan dan diterima bagi projek penyelidikan yang aktif sahaja pada tahun yang dinilai. Ujian klinikal (<i>clinical trials</i>) dikategorikan sebagai penyelidikan kontrak (<i>contract research</i>). Ujian klinikal berbentuk perkhidmatan (<i>services</i>) tidak dikira sebagai penyelidikan kontrak (<i>contract research</i>) dan diletakkan di bawah Perundingan (<i>Consultancies</i>) di Seksyen F. Semua nilai geran diterima walaupun tidak memenuhi nilai minima sebagai Penyelidik Utama di Seksyen B1. 		



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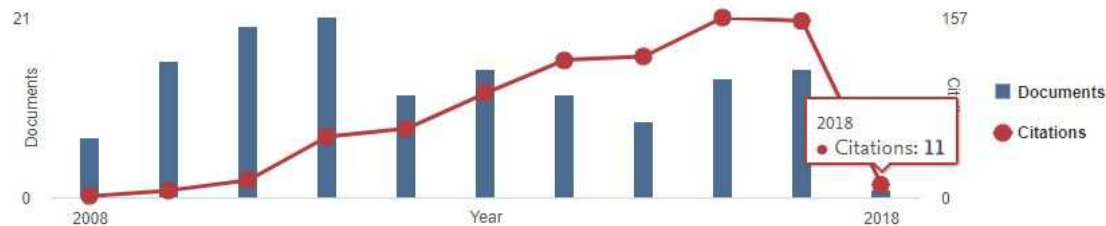
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Subject area: Engineering Computer Science Energy Physics and Astronomy Materials Science Mathematics Multidisciplinary Agricultural and Biological Sciences Earth and Planetary Sciences Medicine Biochemistry, Genetics and Molecular Biology View all

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h-index: 13 View *h*-graph

13

Documents by author

150 Analyze author output

Total citations

791 by 715 documents

View citation overview



Documents	Citations	<2014	2014	2015	2016	2017	2018	Subtotal	>2018	Total
	Total	226	120	123	157	154	11	565	0	791
<input type="checkbox"/> 1	Rotor fault condition monitoring techniques for squirrel-cag...	2011	25	15	14	14	23	1	67	92
<input type="checkbox"/> 2	A current and future study on non-isolated DC-DC converters ...	2013	4	18	20	27	17	2	84	88
<input type="checkbox"/> 3	Artificial neural network-based kinematics Jacobian solution...	2010	23	8	6	6	2	22		45
<input type="checkbox"/> 4	A review of pneumatic actuators (modeling and control)	2009	15	8	5	5	4	22		37
<input type="checkbox"/> 5	Design and implementation of FPGA-based systems - A review	2009	21	6	3	2		11		32
<input type="checkbox"/> 6	Infrared Heating in Food Drying: An Overview	2015			2	7	11	2	22	22
<input type="checkbox"/> 7	Prediction of the metallurgical performances of a batch flot...	2014			7	9	3	2	21	21
<input type="checkbox"/> 8	Double-Rotor Switched Reluctance Machine (DRSRM): Fundamenta...	2011	4	1	5	6	5		17	21
<input type="checkbox"/> 9	The application of internal grading system technologies for ...	2013	1	4	3	6	5	1	19	20
<input type="checkbox"/> 10	Vision-based system for line following mobile robot	2009	3	8	2	4	2		16	19
<input type="checkbox"/> 11	Comparison of ANN and P&O MPPT methods for PV applicatio...	2013			4	5	4		13	13
<input type="checkbox"/> 12	Computation of electromagnetic torque in a double rotor swit...	2012	1	2	3	5	2		12	13
<input type="checkbox"/> 13	An Adaptive sliding surface slope adjustment in PD sliding m...	2011	4	6	2	1			9	13
<input type="checkbox"/> 14	Color segmentation using multi layer neural network and the ...	2008	9	2	1	1			4	13
<input type="checkbox"/> 15	3D facial expression recognition using maximum relevance min...	2012	1	4	2	2	3		11	12



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All Journal Categories ranked by Number of Journals

◀ 1 - 25 of 234 ▶

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	Category	Edition	#Journals ▾	Total Cites	Median Impact Factor	Aggregate Impact Factor
1	ECONOMICS	SSCI	345	608,521	0.829	1.336
2	MATHEMATICS	SCIE	312	405,433	0.614	0.735
3	BIOCHEMISTRY & MOLECULAR BIOLOGY	SCIE	289	3,273,965	2.670	4.093
4	MATERIALS SCIENCE, MULTIDISCIPLINARY	SCIE	271	2,561,259	1.642	3.984
5	ENGINEERING, ELECTRICAL & ELECTRONIC	SCIE	257	1,039,294	1.277	1.847
6	NEUROSCIENCES	SCIE	256	2,053,415	2.706	3.900
7	PHARMACOLOGY & PHARMACY	SCIE	255	1,342,294	2.330	3.039
8	MATHEMATICS, APPLIED	SCIE	254	424,549	0.801	1.064
9	EDUCATION & EDUCATIONAL RESEARCH	SSCI	231	202,093	0.896	1.059
10	ENVIRONMENTAL SCIENCES	SCIE	225	1,412,031	1.737	3.107
11	ONCOLOGY	SCIE	213	1,634,966	2.915	4.315
12	PLANT SCIENCES	SCIE	209	927,887	1.351	2.664
13	SURGERY	SCIE	200	1,000,968	1.566	2.233
14	CLINICAL NEUROLOGY	SCIE	193	1,064,433	2.291	3.186
15	MANAGEMENT	SSCI	192	470,513	1.278	1.896



Journals in EDUCATION & EDUCATIONAL RESEARCH

Go to Journal Profile		Journals By Rank	Categories By Rank			
<input type="text" value="Master Search"/>		Journal Titles Ranked by Impact Factor			Show Visualization +	
Compare Journals		Compare Selected Journals	Add Journals to New or Existing List	Customize Indicators		
View Title Changes	!	Select All	Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score
Select Journals		<input type="checkbox"/>	1 EDUCATIONAL PSYCHOLOGIST	3,402	5.688	0.00401
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