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METHODOLOGY FOR THE TIMES HIGHER EDUCATION ARAB UNIVERSITY RANKINGS 2023

Arab University Rankings 2022methodology

Arab University Rankings 2022methodology Times Higher Educatio(1THE)

Summary of the Rankings methodology:

The methodology for the Times Higher Education Arab University Rankings is looking at research-intensive universities across all their core missions: teaching, researchenvironment, research quality, society (including industry income and impact), and international

# 1) Data collection and sources

Institutional data ±self -submitted on the THE Portal

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#### Reference data

THE incorporates reference datasetsinto its model to convert country-level data provided by institutions via the portal (e.g. research income in a local currency) to a single comparable dataset for all institutions.

The sources of this data are:

- o The Her Majesty Revenue and Customs (HMRC) monthly datasets:

  [https://www.gov.uk/government/publications/hmrc -exchangerates-for-2020-monthly], which provides accurate foreign exchangerates to convert datasets into GBPand then back into their local currency if an institution reports in a foreign currency;
- The World Bank Purchase Power Parity (PPP) dataset [http://data.world\_bank.org/indicator/PA.NUS.PPP], which is used to convert the local currency to common-PPP-scaled USD PPP is used to exemplify the differing currency strengths in each country 67 re W\*Pp6.54 Tm 0 322. q ey strengths

2) Criteria for exclusi on, inclusion, and data processing
Exclusion and inclusion criteria
They are required to publish 500 or more relevant publications over the previous 5 years.
AND
2. 7KH\ PXVW KDYH VXSSOLHG 3RYHUDOO' QXPEHUV IRU WKH UDQNI
AND
<ol> <li>They must not be featured in the custom exclusions list. Institutions that have requested not to participate in the ranking or that are not eligible for other institution -specific reasons have been excluded.</li> </ol>
AND
They must not have more than two of the critical values (academic staff, international academic staff, research st

## Data adjustments

After the deadline of the submission of data via the Portal by institutions, management review and approve all institution submissions data for appropriateness and accuracy, based on prior year values and gaps within datasets  $\ddot{V}^i$  as described below.

On the occasions where an institution does not provide a data point which would result in the inability to generate a metric, the missing metric may be calculated by imputing the value as the higher of:

- x The average of the two lowest metric scores for an institution; or
- x The minimum s core awarded across the whole population for that metric.

## Data processing pre -rankings

Data provided by institutions for financial information is converted into USD using international PPP exchange rates  $\ddot{Y}^{(i)}$  (provided by the World Bank), for use in the Rankings calculatio n.

The datasets used in the rankings have been accurately mapped by university name and ID.

Institution -level bibliometric (Scopus and/or SciVal) obtained by Elsevier is mapped to THE in VWLWXWLRQ GDWD YLD 7+( WW LQVWLWXWLRQ ,'

# 3) Calculation, scoring and ranking

Calculation of metrics

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#### 2. Research Environment

## Research Reputation

o We conducted an Arab region-specific survey which yielded over 35,000 votes. Only academics who have been cited in published papers were invited to participate. The most recent Arab Reputation Survey that underpins this metric was carried out from May to June 2023. It examined the perceived prestige of institutions in research. This metric consists of the number of research votes obtained from the Arab reputation survey 2022 scaled to the growth in this category in 2023, as well as the research votes from the 2023 survey. Universities that received no votes are scored a zero for this metric.

#### Research Income

o This metric is generated by dividing the total subject weighted research income adjusted for PPP, by the total subject weighted number of academic staff and is normalised after calculation. This is a somewhat controversial indicator because it can be influenced by national policy and economic circumstances. Income is crucial to the development of world-class research and because much of it is subject to competition and judged by peer review, our experts suggested that it was a valid measure.

7 K L V L Q G L F D W R U W D N H V D F F R X Q W R I H D F K L Q V W L W X W L R Q ¶ research grants in science subjects are often bigger than those awarded for the highest-quality social science, arts and humanities research.

### ResearchProductivity

o This metric is generated by dividing the total subject weighted number of papers published in the academic journals indexed by (OVHYLHU¶V 6FRSXV GDWDEDVH SHU VFKR 0 subject weighted number of FTE research staff and FTE academic staff. This metric is normalised after calculation. The indicator JLYHV DVHQVH RI WKHto 1900 play 16 pla

#### 3. Research Quality

#### Research Strength

Our research strength LQGLFDWRU ORRNV DW XQLYHUVLWLHV¶ UR WH L examine research influence by capturing the 75th percentile of the Field-Weighted Citation Impact (FWCI) of all papers published by a university. We look at the academic journa OV LQGH[HGEN Scopus database and all indexed publications between 208 and 2022. Citations to these publications made in the six years from 2018 to 2023 are also collected. The data isnormalised to reflect variations in citation volume between different subject areas. This means that institutions with high levels of research activity in subjects with traditionally high citation counts do not gain an unfair advantage.

## 4. Society

#### Industry income

o \$QLQVWLWXWLRQ¶VDELOLW\WRKHOSLQ@miswitamicty haz betwoknelaQQ core mission of the contemporary global academy. This category suggests the extent to which businesses are willing to pD\IRUUHVHDUFKDQGDQLQVWLWXWLRQ¶VD commercial marketplace ±useful indicators of institutional quality. The indicator seeks to capture such knowledge-transfer activity by looking at how much research income an institution earns from industry (adjusted for PPP), divided by the by the total number of FTE academic staff it employs. This variable is normalised after calculation.

Another mission of many higher education institution is to positively impact the wider society an discontinuous di

## Impact Participation

o Institutions are measured by the number of SDGs for which they are ranked in latest THE Impact Rankings. A maximum of 100 points are awarded to institutions that participate in 4 SDGs or more; eighty points for 3 SDGs; sixty points for 2 SDGs; fifty points for 1 SDG and zero point if they are not ranked.

### Impact Performance

O Institutions that are ranked in the overall table of the latest THE Impact Rankings receives a metric score which is TJ ET Qscore which is TJ ET Qscore wiaq 43.08 156.74220wr8re

5. International Outlook
<ul> <li>International Students</li> <li>This metric captures the proportion of international students on campus. International students are those whose nationality differs from the country where the institution is based. The metric is calculated as thetotal FTE number of international students divided by the total FTE number of students. This variable is normalised</li> </ul>

#### Normalisation

Moving from a series of specific data points to indicators, and finally to a total score for an institution, requires us to m atch values that represent fundamentally different data. To do this we use a standardisation approach for each indicator, and then combine the indicators in the proportions indicated below.

The standardisation approach we use is based on the distribution of data within a particular indicator, where we calculate a cumulative probability function, and evaluate where a p D U W L F X O D U L Q V W L W X W L R Q ¶ V L Q G L F D

For all indicators except the Arab Reputation Survey metrics, Impact Participation, Research Excellence, Research Influence, and Patents, we calculate the score using a normal cumulative probability function. The distribution of the data in the Arab Reputation Survey, as well as Research Strength, Research Excellence, and Rents, require us to use an exponential scoring function. Impact Participation is scored by counting the number of Sustainable Development Goals that the universities participated in the Impact 202 3 rankings. A maximum score is awarded for 4 SDG submissions.

Weightings of metrics to final scores and rankings

The 20 performance metrics representing the five pillars are weighted according to THE  $\P$  V D V V H of VrePathVQ V importance.

Pillar	Metric	% weight ing
	Teaching Reputation	18.0%
1.Teaching	Students Staff Ratio	4.0%
1. readining	Doctorates Bachelor Ratio	2.5%
	Doctorates Staff Ratio	5.0%
	Institutional Income	1.5%
	ResearchReputation	23

2. Research Environment

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