World University Rankings 2018 methodologymes Higher Education HE)
METHODOLOGY FOR OVERALL AND SUBJECT RANKINGS FOR THE
TIMES HIGHER EDUCATION WORLD UNIVERSITY RANKINGS 2018
September 2017

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The Times Higher Education World University Rankings, founded in 2004, aims to provide the definitive list of the world's best universities, evaluated across teaching, research, international outlook, reputation and more. Times Higher Education (THE) ¶ V GsDrWsted by governments and universities and is a vital resource for students, helping them choose where to study.

'LUHFWRUV¶ statement:

7KLV GRFXPHQW WKH ³0HWKR **GtoR-©ondRpJro**b cess**/forlig/te/n/teraRitix/gWherTixheLsHHgQtoG** Education World University Rankings 2018 WKH ³5DQNLQJV′ \$VGLUHFWRUVDQGPDQDJHs**nBitel tQabt**Worl 7LF

The Times Higher Education World University Rankings are the only global performance tables that judge research intensive universities across all their core missions: teaching, research, knowledge transfer and international outlook. We use 13 carefully calibrated performance indicators, listed below, to provide the most comprehensive and balanced comparisons, trusted by students, academics, university leaders, industry and governments. The basic methodology for WKLV\HDU¶VUDQNLQJVLVVLPLODU±200112 tables pow well made in the whole in the context of the cont

The 2018 World University Rankings are published in autumn 2017.

The performance indicators are grouped into five areas:

- x Teaching (the learning environment)
 - o Reputation Survey ±Teaching
 - o Academic Staff-to-Student Ratio
 - o Doctorates Awarded / Undergraduate Degrees Awarded. [e.66 1ID 73 >Td ()Tj EMC /P <<e

1)

- Reputation survey

An annual survey was sent to a sample of academics randomly selected by Elsevier asking them to nominate the most important universities for Teaching and/ or Researchglobally in their field. For the 2017-2018 survey, academics were asked to nominate the top 15 institutions for Teaching and the top 15 institutions for Research. The 2017-2018 survey was combined with the 2016-2017 survey for use in the Rankings.

The two Teaching and Research scores for an institution at the global level was the count of mentions they received in each category.

The two Teaching and Researchscores relating to the specialist field of the survey respondents were the scores used for the subject tables. Where an institution received no votes, they were allocated a zero score.

- 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 the

2)	Processing and	d exclusions
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- a) Criteria
- b) Subject ranking criteria
- c) Data point adjustments
- d) Data processing pre-rankings

2a) Criteria

Institutions must meet seven criteria in order to be included in the Overall Ranking (iv):

i. Sufficient publications ±An institution is required to publish more than 1000 papers over the previous 5 years, and more than 150 publications in any single year

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Subject	Papers for 5 years (2012 -2016)
	1000 (150 per year)
manities	250
reclinical & Health	500
ng & Technology	500
	500

- 3) Ranking and scoring
- a) Distribution analysis and re-weighting
- b) Subject ranking differentiation
- 3a) Distribution analysis and re -weighting

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Once the final population of institutions and indicators has been prepared, the Rankings are generated by weighting the indicators (viii) according to the following percentage breakdowns:

- 1. Teaching (the learning environment): 30%
 - x Reputation survey: 15%

The Academic Reputation Survey (run annually) that underpins this category was carried out from January to March 2017. It examined the perceived prestige of institutions in teaching. The 2017 data are combined with the results of the 2016 survey.

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World University Rankings 2018 methodology

Specific rules subject to independent assurance by PwC

Rule number	Methodology section	Rule description
(i)	Data collection	A named representative from each institution submits and authorise d their institutional data for use in the Rankings.
(ii)	Data collection	Times Higher Education will not self -submit data for an institution without positive confirmation from the named representative of the institution.
(iii)	Data collection	Prior to submission of data within the portal, the draft data undergoes automatic validation checks reviewed by the named representative
(iv)	Processing and exclusions	Institutions must meet sevencriteria in order to be included in the Rankings .
(v)	Processingand exclusions	Management review and approve all institution submissions data for appropriateness and accuracy, based on prior year values and gaps within datasets
(vi)	Processing and exclusions	Data provided by institutions for financial information is converted into UwT EMC02.15

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Independent assurance report to the directors of TES Global Limited for the Times Higher Education World University Rankings 2018

We performed the following procedures:

- x Examining the Methodology and specific rules (i) \pm (x) and assessing any key assumptions and limitations
- x Obtaining an understanding of the third party surveys and data
- x Assessment of adherence to specific rules (i) \pm (x) for:
 - o Data collection:
 - o Processing and exclusions;
 - o Ranking and scoring; and
 - o Final reporting.
- x Confirming accurate reporting of institutions in the Overall and Subject Rankings in the Times Higher Education World University Rankings 2018 report (reproduced in Appendix 1)
- x Enquiries of relevant management.

Inherent limitations

Our assurance procedures are limited to assessing the application of specific rules (i) \pm (x) and are subject to this inherent limitations:

- x Reliance has been placed on data obtained from third parties. These datasets include:
 - o Scopus field weighted citation data for institutions provided by Elsevier (part of RELX Group);
 - o Reputational survey response data provided by Elsevier (part of RELX Group);
 - o PPP currency conversion figures for 2014 provided by the World Bank; and
 - o Foreign exchange currency conversion rates provided by HMRC.
- x 2 X U U H V S R Q V L E L O L W \ L V stratement/th/althrh/at/ag/enrecht hast full blue at/s pedific fulles (i) ±(x) of the Methodology, not to comment on the actual rankings or results of the application of the Methodology.

Conclusion

% DVHG RQ WKH UHVXOWV RI RXU ZRUN QRWKLQJ KDV FRPH WR Retatebrew WHQ that TES Global Limited management has correctly applied specific rules (i) ±(x) in producing the Times Higher Education World University Rankings 2018 is not fairly stated in all material respects.

PricewaterhouseCoopers LLP Chartered Accountants

Presintehoustogers LLP

London, UK

4 September 2017