Recent Development of International Higher Education in Malaysia

Date: 28 March 2018, Wednesday
Sub-theme: Regional Reports

Nordin Yahaya
Universiti Teknologi Malaysia
nordin@utm.my
Presentation Outline

Redesigning Higher Education in Malaysia 2025
Growing Local Capability – Global Recognition
International Education
The forward & summary

www.apaie2018.org
Malaysian Higher Education Landscape

Source: Ministry of Higher Education, Malaysia (2017)
Higher Education 4.0

Presentation Outline

1. Redesigning Higher Education in Malaysia 2025
2. Growing Local Capability – Global Recognition
3. International Education
4. The forward & summary

www.apaie2018.org
Ranking of Higher Education Systems (Universitas 21) 2017

- Malaysia was ranked 25th out of 50 national systems
- Risen 9 places Overall since 2012, one of the most improved country.
- Risen 7 places in Output since 2012, the 2nd highest improvement.

Source: Ministry of Higher Education, Malaysia (2017)
Malaysia Research Landscape: Research Output University (2012-2016)

**NUMBER OF PUBLICATION FOR MALAYSIA TOP UNIVERSITIES 2012-2016**

<table>
<thead>
<tr>
<th>University of Malaya (UM)</th>
<th>Universiti Teknologi Malaysia (UTM)</th>
<th>Universiti Kebangsaan Malaysia (UKM)</th>
<th>Universiti Putra Malaysia (UPM)</th>
<th>Universiti Sains Malaysia (USM)</th>
<th>Universiti Teknologi MARA (UiTM)</th>
<th>Universiti Teknologi Petronas (UTP)</th>
<th>International Islamic University Malaysia (IIUM)</th>
<th>Universiti Malaysia Perlis (UniMAP)</th>
<th>Universiti Tun Hussein Onn Malaysia (UTHM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>21,131</td>
<td>16,773</td>
<td>16,283</td>
<td>16,050</td>
<td>15,350</td>
<td>9,950</td>
<td>5,358</td>
<td>5,316</td>
<td>4,926</td>
<td>3,750</td>
</tr>
</tbody>
</table>

Source: https://www.elsevier.com/research-intelligence/campaigns/malaysia-research-excellence-and-beyond

*Source: URAP Ranking 2017. Average for Top 10 universities (2012-2016) – Clarivate Analytic*
Malaysia’s Research & Publications

3.1x
Increase in publications
(highest in the world)

7.5%
Scholarly Output Growth Rate
(2nd in Asia Pacific)
World average 1.1%

4.0x
Increase in citations

7th
Scholarly Output in Asia-Pacific
(after China, Japan, India, Australia, South Korea, Taiwan)

40%
Growth in patents filed

Source: https://www.elsevier.com/research-intelligence/campaigns/malaysia-research-excellence-and-beyond
Ranking of Malaysia Top Universities

**SOARING UPWARDS**
CONTINUOUSLY IMPROVING TO PROVIDE THE BEST EDUCATION

<table>
<thead>
<tr>
<th>UNIVERSITY</th>
<th>2013 / 2014</th>
<th>2017 / 2018</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIVERSITY OF MALAYA</td>
<td>167</td>
<td>114</td>
<td>53</td>
</tr>
<tr>
<td>UNIVERSITI PUTRA MALAYSIA</td>
<td>411</td>
<td>229</td>
<td>182</td>
</tr>
<tr>
<td>UNIVERSITI KEBANGSAAN MALAYSIA</td>
<td>269</td>
<td>230</td>
<td>39</td>
</tr>
<tr>
<td>UNIVERSITI TEKNOLOGI MALAYSIA</td>
<td>355</td>
<td>253</td>
<td>102</td>
</tr>
<tr>
<td>UNIVERSITI SAINS MALAYSIA</td>
<td>355</td>
<td>264</td>
<td>91</td>
</tr>
</tbody>
</table>

**INSTITUTIONS**

<table>
<thead>
<tr>
<th>UNIVERSITY</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIVERSITI PUTRA MALAYSIA</td>
<td>15</td>
</tr>
<tr>
<td>UNIVERSITI KEBANGSAAN MALAYSIA</td>
<td>16</td>
</tr>
<tr>
<td>UNIVERSITI TEKNOLOGI MALAYSIA</td>
<td>21</td>
</tr>
<tr>
<td>UNIVERSITI SAINS MALAYSIA</td>
<td>23</td>
</tr>
</tbody>
</table>

27 Malaysian universities listed for Top 400

---

| The Impact of the Fourth Industrial Revolution on Higher Education in the Asia Pacific | 25 to 29 March 2018 |
50 Subjects ranked Top 100

<table>
<thead>
<tr>
<th>Institution</th>
<th>Number of Subjects in Top 200</th>
<th>Best Subject/s</th>
<th>Rank of the Top Subject</th>
</tr>
</thead>
</table>
| UM          | 42                          | Library & Information Management
Seven Subjects in Top 50          | 24                      |
| USM         | 21                          | Mineral & Mining Engineering
Twelve Subjects in Top 100        | 43                      |
| UKM         | 19                          | Seven Subjects in 51-100        | 51-100                  |
| UTM         | 10                          | Five Engineering Subjects in 51-100        | 51-100                  |
| UPM         | 14                          | Two Subjects in 51-100          | 51-100                  |
| Taylor’s    | 1                           | Hospitality & Leisure Management | 21                      |
| IIUM        | 1                           | Theology, Divinity & Religious Studies | 31                      |
| UiTM        | 3                           | Three subjects in 151-200      | 151-200                 |
| UTP         | 2                           | Chemical Engineering          | 101-150                 |
| UCSI        | 1                           | Performing Arts               | 51-100                  |
| UMS         | 1                           | Agriculture & Forestry        | 101-150                 |
Presentation Outline

Redesigning Higher Education in Malaysia 2025

Growing Local Capability – Global Recognition

International Education in Malaysia

The forward & summary

www.apaie2018.org
Four trends that are shaping the future of global student mobility

• Growth will continue, but at what rate?
• Leading destinations losing share
• Middle class driving growth
• Regional student mobility

“The growth of the middle class in emerging economies around the world is key factor in overall demand levels for study abroad”
Prof Simon Margison – University College London

“The East Asia and the Pacific region is expected to exceed enrolments of 100 million students between 2020 and 2021 and to exceed enrolments of 200 million between 2033 and 2034.”
Prof Angel Calderson - RMIT

Changing Trend of Student Mobility

- Decreasing trends of outbound Southeast Asia students mobility
- Increasing trends of inbound Southeast Asia mobility
- Indicating increasing influence of local/regional capacity

Why Malaysia as a Study Destination

Why international students choose Malaysia:
- Quality education (value for money);
- Cost;
- Cultural comforts;
- Language of instruction;
- Quality of life


MOST AFFORDABLE CITY IN THE WORLD FOR STUDENTS

9th
Best City for Students in Asia 2017

www.apaie2018.org
International Students Enrolment In Malaysia (31 Dec 2017)

Total 170,068 from 163 countries

- 33,095 Public universities
- 103,198 Private universities
- 24,503 International/private Schools
- 5,427 Language Centres
- 3,101 Skill Centres, MoE
- 744 Skill Centres, MoHR

136,293 in Higher Education

- 104,008 Undergraduates:
  - 11,925 Public
  - 92,083 Private
- 32,285 Postgraduate:
  - 21,170 Public
  - 11,115 Private

Source: MyMohes, Unit Data, BPPPD, KPT

24% international PG
## Comparison of International Students Enrolment 2016-2017

### International Students Enrolment in Malaysia 2016-2017

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of international Postgraduate Students in Public Universities</td>
<td>21,170</td>
<td>21,115</td>
</tr>
<tr>
<td>Total number of international Postgraduate Students in Malaysia</td>
<td>32,285</td>
<td>30,849</td>
</tr>
<tr>
<td>Total number of International Students in Public universities</td>
<td>33,095</td>
<td>30,598</td>
</tr>
<tr>
<td>Total number of International Students in Malaysia</td>
<td>136,293</td>
<td>132,710</td>
</tr>
</tbody>
</table>

Source: MyMohes, Unit Data, BPPPD, KPT (2017)
International Students in Malaysia 2017

Students from 163 countries

International Students in Malaysia 2017

Source: MyMohes, Unit Data, BPPPD, KPT (2017)

www.apaie2018.org
Enrolment Trend of International Students in Malaysia 2001-2017

Total Enrolment of International Students in Malaysia 2001-2017

- **On track to achieve 200,000 in 2020**
- **Total** 136,293
- **Private** 103,293
- **Public** 33,095

Source: MyMohes, Unit Data, BPPPD, KPT (2017)
Study Abroad

INTERNATIONAL MOBILITY FOR MALAYSIA PUBLIC UNIVERSITIES 2016-2017

<table>
<thead>
<tr>
<th>Year</th>
<th>Inbound Mobility</th>
<th>Outbound Mobility</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>3796</td>
<td>4564</td>
</tr>
<tr>
<td>2017</td>
<td>7391</td>
<td>12714</td>
</tr>
</tbody>
</table>

EXCHANGES STUDENTS UNDER AIMS PROGRAMME 2010-2017

<table>
<thead>
<tr>
<th>Year</th>
<th>Inbound</th>
<th>Outbound</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>31</td>
<td>77</td>
</tr>
<tr>
<td>2011</td>
<td>65</td>
<td>48</td>
</tr>
<tr>
<td>2012</td>
<td>78</td>
<td>141</td>
</tr>
<tr>
<td>2013</td>
<td>114</td>
<td>76</td>
</tr>
<tr>
<td>2014</td>
<td>100</td>
<td>146</td>
</tr>
<tr>
<td>2015</td>
<td>160</td>
<td>146</td>
</tr>
<tr>
<td>2016</td>
<td>156</td>
<td>156</td>
</tr>
<tr>
<td>2017</td>
<td>140</td>
<td>127</td>
</tr>
</tbody>
</table>

* AIMS Programme: Exchange programmes between Malaysia, Indonesia, Thailand, Vietnam, Philippines, Brunei, Japan and Korea
Transnational Education (TNE): International Branch Campus in Malaysia

2. Swinburne University of Technology, Sarawak (2000)
5. The University of Nottingham Malaysia, Selangor (2008)
7. Raffles University Iskandar (RUI) (2011)
8. ESMOD Malaysia (France), Kuala Lumpur (2012)
9. University of Southampton Malaysia Campus (USMC), Iskandar Puteri, Johor (2013)
10. University of Reading Malaysia (UoRM), Iskandar Puteri, Johor (2014)
11. Heriot-Watt University Malaysia, Putrajaya (2014)
12. Xiamen University Malaysia Campus, Nilai (2015)
Typical International Network and Alliances
International Partnerships

Partnerships by Region

- Asia: 74%
- Europe: 16%
- North America: 4%
- Oceania: 3%
- South America: 3%
- Africa: 3%

Partnerships In ASEAN Countries

- Indonesia: 74%
- Singapore: 12%
- Thailand: 3%
- Vietnam: 3%
- Brunei: 1%
- Cambodia: 1%
- Laos: 0%
- Myanmar: 1%
- Philippines: 4%

48% of ASIAN partners from ASEAN

www.apaie2018.org
## Malaysia - International Collaboration (2012-2016)

<table>
<thead>
<tr>
<th>Country</th>
<th>Co-Authored Publications</th>
<th>Co-authors in Malaysia</th>
<th>Co-Authors in the other country</th>
<th>FWCI</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 United Kingdom</td>
<td>6,324</td>
<td>6,178</td>
<td>10,067</td>
<td>2.04</td>
</tr>
<tr>
<td>2 Australia</td>
<td>5,533</td>
<td>5,549</td>
<td>6,705</td>
<td>2.02</td>
</tr>
<tr>
<td>3 United States of America</td>
<td>4,894</td>
<td>5,240</td>
<td>14,375</td>
<td>2.46</td>
</tr>
<tr>
<td>4 Iran</td>
<td>4,772</td>
<td>4,494</td>
<td>4,608</td>
<td>1.86</td>
</tr>
<tr>
<td>5 India</td>
<td>4,262</td>
<td>3,452</td>
<td>5,552</td>
<td>2.1</td>
</tr>
<tr>
<td>6 Japan</td>
<td>4,108</td>
<td>4,241</td>
<td>5,844</td>
<td>1.96</td>
</tr>
<tr>
<td>7 Saudi Arabia</td>
<td>3,652</td>
<td>3,607</td>
<td>1,931</td>
<td>1.79</td>
</tr>
<tr>
<td>8 China</td>
<td>2,762</td>
<td>2,332</td>
<td>5,121</td>
<td>3.14</td>
</tr>
<tr>
<td>9 Indonesia</td>
<td>2,737</td>
<td>3,535</td>
<td>2,340</td>
<td>1.65</td>
</tr>
<tr>
<td>10 Pakistan</td>
<td>2,683</td>
<td>2,383</td>
<td>2,723</td>
<td>2.31</td>
</tr>
</tbody>
</table>

[https://www.elsevier.com/research-intelligence/campaigns/malaysia-research-excellence-and-beyond](https://www.elsevier.com/research-intelligence/campaigns/malaysia-research-excellence-and-beyond)
UTM Joint Publication with institutions in ASEAN countries (2013-2017)

80 articles. 31 inst. 6 partners
*King Mongkut Lakrabang (30)

43 articles. 15 inst. 3 partners
*Ton Duc Thang University (18)

8 articles. 1 inst. 2 partners
*Zaman U (8)

80 articles. 12 inst. 6 partners
*NTU (36)

14 articles. 5 inst. 3 partners
*De La Salle Manila

43 articles. 8 inst. 3 partners
*University of Technology Brunei (22)

405 articles. 53 inst. 57 partners
*Universitas Sebelas Maret (58)

125 institutions in ASEAN

640 international joint-publications in ASEAN (4.3%)

Source: Pure, Scopus & Elsevier
Fingerprint Engine™ © 2018 Elsevier B.V.
Engineering Network among 40 top Universities in ASEAN and Japan

10 ASEAN countries
26 Member Institutions

- University of Yangon
- Yangon Technological University
- Chulalongkorn University
- King Mongkut’s Institute of Technology Ladkrabang
- Burapha University
- Kasetsart University
- Thammasat University
- Universiti Malaya
- Universiti Sains Malaysia
- Universiti Putra Malaysia
- Universiti Teknologi Malaysia
- National University of Singapore
- Nanyang Technological University
- Institut Teknologi Bandung
- Universitas Gadjah Mada
- Universitas Indonesia
- Institut Teknologi Sepuluh Nopember

Japan
14 Supporting Universities

- National University of Laos
- Institute of Technology of Cambodia
- Hanoi University of Science and Technology
- Ho Chi Minh City University of Technology
- University of the Philippines - Diliman
- De La Salle University
- Mindanao State University – Iligan Institute of Technology
- Universiti Brunei Darussalam
- Institut Teknologi Brunei

14 Supporting Universities

- Hokkaido University
- Keio University
- Kyoto University
- Kyushu University
- National Graduate Institute for Policy Studies
- Shibaura Institute of Technology
- Tokai University
- Tokyo Institute of Technology
- Toyohashi University of Technology
- The University of Tokyo
- Waseda University
- Tohoku University
- Nagoya University
- Osaka University

http://www.seed-net.org/

www.apaie2018.org
Summary

• Malaysia has a lot potentials to become a major education hub in the world

• International Higher education is progressing rapidly in Malaysia

• Many opportunities to further international partnership and collaborations with Malaysian institutions
See you in Kuala Lumpur 2019!

APAIE 2019

Lead Host:
Universiti Teknologi Malaysia (UTM)

Co-hosts:
Universiti Sains Malaysia (USM)
Universiti Kebangsaan Malaysia (UKM)
Universiti Teknologi Petronas (UTP)
Management & Science University (MSU)
Universiti Tenaga Nasional (UNITEN)

Venue: Kuala Lumpur Convention Centre (KLCC)

Date: 25-29 March 2019

http://apaie2019.org/