Mobility For Everyone:
Balanced and Inclusive Mobility in The Digital Era

The 7th ASEM Education Ministers’ Meeting (ASEM ME7)

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SECRETARY GENERAL

MINISTRY OF RESEARCH, TECHNOLOGY, AND HIGHER EDUCATION OF THE REPUBLIC OF INDONESIA
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**INDONESIA**

**POPULATION**

Demography Bonus

- **>266 Million**

**ECONOMY**

- **8th in the World in 2016**
  - Pricewaterhouse Coopers (PwC), 2017

- **7th in the World in 2030**
  - McKinsey Global Institute, 2012

- **4th in the World in 2050**
  - Pricewaterhouse Coopers (PwC), 2017

**MORTHE’s mission:**
To improve access, relevance, and quality of HE to produce quality human resources, and to improve capacity in the area of science, technology and innovation for the nation’s competitiveness.
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Indonesia’s HIGHER EDUCATION System 2019
Source: FORLAP PDIKTI, Kemenristekdikti, 2019 and BANPT, 2019 and Statistik Pendidikan Tinggi 2019, Pusdatin, Kemenristekdikti

- University: 3,340
- Academy: 1,064
- Community College: 20
- Polytechnic: 278
- Autonomous State Univ (PTN-Bh): 11

HEIs:
- ±4,741

STUDY PROGRAMS:
- ±28 THOUSAND

STUDENTS:
- ±8 MILLION

LECTURERS:
- ±297 THOUSAND

(Students: ~15.1% Vocational/Polytechnic
~146% PhDs)

Source: FORLAP PDIKTI, Kemenristekdikti, 2019 and BANPT, 2019 and Statistik Pendidikan Tinggi 2019, Pusdatin, Kemenristekdikti
IQF Level Descriptions:
Higher Education is Carried Out in One Holistic Program

- IQF qualification consists of nine levels starting from level 1 to level 9 as the highest level.
- Each level has a description of the LO in accordance with their qualifications.
- The resulting level of qualification through formal education can be compared with the level of expertise in the field of work.

Learning Progress in Academic

Learning Progress in Applied Sciences/Vocational
1 year non-degree program to promote the interest of the youth from other countries in the language, art and culture of Indonesia. Designed to provide stronger link and mutual understanding among people of participating countries.

This program was established in 1974 as part of ASEAN initiative, admitting only students from ASEAN. However, in 1976 this program was extended further to ASEAN + Canada, France, Germany, Hungary, Japan, Mexico, Netherland, Norway, Poland, Sweden and USA

Since 1974

From 1974 - present: 115 countries, 7852 alumni

Coverage:
Students Monthly Stipend,
Orientation Program, Students’ Permit

59 Universities

7852 Alumni

115 Countries

STUDENTS AWARDEE OF DARMASISWA SCHOLARSHIP

PARTICIPATING COUNTRIES

Universities
Alumni
Countries
Challenges of INDUSTRY 4.0 Disruptive Era

Role of humans to be replaced by machines/robots/AI

75-375 Million
OF THE GLOBAL WORKFORCE WILL CHANGE PROFESSIONS

(Gartner, 2017)

1.8 Million
JOBS TO BE REPLACED BY ARTIFICIAL INTELLIGENCE

(McKinsey, 2017)

Technology will create a range of new professions which do not exist yet.

Transformed Society
- Primitive
- Agriculture
- Industry
- Innovation

Transformed Life Style
- Centralized
- Physical Segmented
- Time Constrained

Transformed Generation
- X-Gen
- Y-Gen
- Z-Gen

Transformed Higher Education
- 1<sup>st</sup> Gen Education
- 2<sup>nd</sup> Gen Education
- 3<sup>rd</sup> Gen Education

Smart Society
- Distributed
- Virtual
- Connected across time and space

- Creative, Fast, Collaborative, Crowd Sourcing, Borderless, Connected

- Education + Research & Innovation + Entrepreneur
Gross Enrollment Ratio (GER) is the ratio of the number of entry-level (D1-D4 & S1) students and total population aged 19 - 23 years old.

<table>
<thead>
<tr>
<th>Year</th>
<th>Ratio</th>
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<tbody>
<tr>
<td>2015</td>
<td>29.92%</td>
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<tr>
<td>2016</td>
<td>31.61%</td>
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<tr>
<td>2017</td>
<td>33.37%</td>
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<tr>
<td>2018</td>
<td>34.58%</td>
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Global Flow

STUDENT MOBILITY (in Higher Education)

Source: Global Flow of Tertiary-Level Students UNESCO, 2018

Total number of students pursuing studies abroad (per country)

- CHINA: 869,387
- INDIA: 305,970
- THAILAND: 29,884
- SINGAPORE: 24,793
- MALAYSIA: 64,187
- INDONESIA: 45,206

Top 5 study destination countries: US, Australia, UK, Canada, Japan.
Kemenristekdikti plays a role in the development of competent, skilled, and professional higher education Human Resources to meet the needs of the community, industry, and country in the 21st century, measured by the following macro indicators:

1. **Employability rate** (proportion of graduates who are immediately able to gain or create employment).

2. The increase of graduates who are able to compete in both regional and international markets as they are competent, skilled, and professional (certified).

3. The increase of **HR productivity** which contributes to the increase in value and competitiveness of the nation.
Internationalization and Connectivity

**National and International Accreditation**: Board of National Accreditation for Higher Education (BAN-PT), JABEE, AACSB, ABET, etc.

**Presence of Foreign Universities** in Indonesia or vice versa
- Branch campus.
- Collaboration with local HEIs.
- Binus Indonesia in Qatar.

**World Class University** in top 200-400 (QS World University Ranking 2019): UI, ITB, UGM

**Mobility**
- Student exchange – AIMS, joint program, double degree, collaborative research.
- Mobility without movement – online education.
1. Credit transfer/credit earning.
2. Recognition of prior learning.
3. Foreign Education in Indonesia.
4. Inclusive Education.
5. Distance Education: bridging the gap, reaching the unreached.
   a. Online education (fully online – course or institution).
   b. Blended learning (up to 40% shopping, up to 50% online).
   c. Distance education (across time and geographical distance).

Regulation to Facilitate Mobility

Education is a social activity; therefore physical interaction is still critically important. The role of digital technology is more on facilitation of processes (pre and post).
MoRTHE’s Policy
Implementation of Distance Education for Student Mobility

Use of Online Learning Technology

• Implementation of online learning systems through SPADA-IdREN.
• ICT (digitalization) for mobility:
  - Mobility in cyber space: virtual and augmented reality.
  - Digital interaction - video and audio conferencing.
  - Telepresence meeting, etc.

Cyber Institute

The government has started guidance and quality assurance units of distance education at central level, which functions as a regulator, quality assurance, and a container for courses, distance education study programs, and/or organisers of distance education in Indonesia.
MoRTHE’s Policy
Quality Assurance – Four Levels

INSTITUTION

COURSE

STUDY PROGRAM

BLOCK

INDONESIAN CYBER EDUCATION INSTITUTE
(ICE INSTITUTE)
- Quality assurance for all online education form in Indonesia
- Gallery (marketplace of online education form in Indonesia)
Goals of Student Mobility (HE)

- **Improve the competitiveness of Indonesian students** at international level in the 21st century.
- Enrich and equip students with the experience of scientific exposure, culture, environment and different systems.
- Prepare and increase student competence in the global/international integration.
- Expand and strengthen cooperation with a network of higher education and community partners.
- Continuous self-development for students.

**Programs:** ASEAN International Mobility for Students (AIMS), Joint Degree/Double Degree, Joint Curriculum, Credit Transfer, Credit Earning, Fast-track, ODL (Online/Blended Learning)
### Credit Transfer Model

<table>
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<tr>
<th>Model A</th>
<th>Model B</th>
<th>Model C</th>
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<tbody>
<tr>
<td><strong>(Multilateral Student Exchanges)</strong></td>
<td><strong>(Bilateral Exchanges)</strong></td>
<td><strong>(Short Programs)</strong></td>
</tr>
<tr>
<td>• Multilateral student exchanges</td>
<td>• Bilateral exchanges between two institutions</td>
<td>• For short (e.g. summer) programs, especially for culture, language, and area studies</td>
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<tr>
<td>• Tuition and fee waivers</td>
<td>• Tuition &amp; fee waivers depends on MOU.</td>
<td>• No restriction regarding tuition fee and credit transfer</td>
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<tr>
<td>• Special “consideration” for accommodation</td>
<td>• CTS for credit transfer</td>
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<tr>
<td>• Credit transfer (1 Semester: credit transfer system/CTS)</td>
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Flow of Tertiary-Level Students (Student Mobility Indonesia)

Internationally mobile students:

- Australia: 9,453
- United States: 7,340
- Malaysia: 6,222
- Egypt: 2,682
- Japan: 2,213
- United Kingdom: 1,650
- Germany: 1,558
- Saudi Arabia: 1,226
- Turkey: 1,155
- Netherlands: 910
INTERNATIONAL STUDENT in Indonesia

Total number of International students in Indonesia 2016 – 2019: 18,453 students

Source: Ministry of Research, Technology and Higher Education of the Republic of Indonesia
Developing Countries Partnership Scholarship
Policy Background:

- Postgraduate (Master Degree) scholarships offered to students from developing countries.
- Indonesian Government commitment to contribute in the Human Resources capacity development in the Developing Country Partners.
- Indonesian Government policy to help University increase the number of International Students as an integrated part of Higher Education Internationalization.
Duration of Study

Bachelor Program
- 2 semesters of Indonesian Language Program
- 8 semesters of Bachelor Program

Master Program
- 2 semesters of Indonesian Language Program
- 4 semesters of Master Program
Statistics

Total Awardees 2008 – 2018: 1,250 awardees

The DCP Scholarship Awardee’s Nationality

- Thailand: 28
- Madagaskar: 25
- Laos: 24
- Sudan: 21
- Tanzania: 146
- Uganda: 77
- Rwanda: 57
- Kamboja: 50
- Timor Leste: 40
- China: 38

Study Program Distribution

- Applied Sciences: 34%
- Art, Language and Culture: 10%
- Education: 9%
- Information Technology: 25%
- Engineering: 14%
- Public Health and Pharmacy: 5%
- Social Sciences: 3%
Moving Forward

To facilitate mobility
- Indonesia is preparing to ratify Tokyo Convention and Global Convention on Recognition of Qualification of Higher Education.
- Indonesia joins various mobility programs including ASEM Education Process.

To increase Indonesian gross enrollment rate of HE: 50% in 2024 → HEIs provide online education in various forms reaching out all Indonesian and open for Indonesians across time and space.

To ensure quality of HEIs
- Internal and external accreditation for regular programs.
- Internal and external accreditation for online education via ICE Institute.
- Collaboration with foreign universities for academic programs, research, publications and innovation.

To ensure development of HEIs in Indonesia: more collaboration and support are needed.
Thank You

http://ristekdikti.go.id/