MALAYSIA MOOCs:

Policies and Practices

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Prof. Dr. Shahrin Sahib
Mr. Isa Md. Dom
GOL Working Committee, MOHE
## CONTENT

### Malaysia MOOCs Policies
- Malaysia Educational Blue Print (HE) 2015-2025
- Implementation Model and KPIs

### Malaysia MOOCs Practices
- Governance
- Platform and Instructional Design
- Developmental
- Delivery

### Issues and Challenges
Malaysia Educational Blue Print (HE) 2015-2025

...aspire to create a higher education system that ranks among the world’s leading higher education systems and enables Malaysia to compete globally...

....In realizing this, technologies and innovations such as Massive Open Online Courses (MOOCs) and blended learning will be actively pursued...
The next horizon for ICT-based learning is Globalised Online Learning (GOL).

...the term globalised not only refers to the desire for a global target audience but also the development of e-content that is of international standard....
Globalised Online Learning (GOL)

- Malaysia aspires to be a premier education hub through GOL
- This Shift will see the increase of access to quality education for Malaysians and global community, provide efficient course delivery, build the Malaysia education brand and increase prominence for Malaysian HLIs, especially in niche areas and expertise.
GOL - Why it Matters

- The growth of online learning
- Widening access of education
- Cost offering effectiveness
- Enhancing the quality of teaching and learning
- Visibility of Malaysia HLIs and global prominence
- Access to Malaysia niche areas and expertise
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>A</strong> Improving support for GOL ecosystem</td>
<td>Review and refine priorities for cyber infrastructure development (including MOOC requirements); Design and launch HLI-driven, “flagship” MOOCs in areas of distinctiveness; Establish training programmes at AKEPT on MOOCs; and Develop guidelines for training lecturers and support staff at HLIs.</td>
<td>Address priority infrastructure issues for HLIs (e.g., bandwidth, authoring tools, platforms, devices, and equipment); Expand offering of MOOCs in areas of distinctiveness; Promote Malaysian MOOCs to achieve target of having 5 HLIs in top Webometric rankings; and Build capacity for lecturers and support staff to enable development of MOOCs.</td>
<td>Review progress of existing initiatives and introduce new interventions where needed to further boost efficiency and effectiveness.</td>
</tr>
<tr>
<td><strong>B</strong> Establishing GOL administrative structure</td>
<td>Evaluate value of establishing a National e-Learning Centre; Jumpstart development of training programmes to build capacity and capabilities of HLI staff to develop MOOCs and apply blended learning models; and Revise DePAN to incorporate MOOCs initiatives and set target of having 70% of courses using blended learning models.</td>
<td>Continue enhancing pedagogical approaches and processes for developing online-learning content through cross-stakeholder partnerships; and Intensify MOOCs offerings at the rate of 15 courses per institution.</td>
<td>Review progress of existing initiatives and introduce new interventions where needed to further boost efficiency and effectiveness.</td>
</tr>
<tr>
<td><strong>C</strong> Enabling global prominence through GOL</td>
<td>Develop and update guidelines for curriculum revision and credit transfer mechanisms, in consultation with MQA; and Identify expertise and niche areas for global MOOC offerings; and Identify platform partners.</td>
<td>Promote wide adoption of GOL in Malaysian HLIs and among the members of the public for lifelong learning; and Ensure GOL programmes receive the appropriate recognitions, including credit transfer.</td>
<td>Review progress of existing initiatives and introduce new interventions where needed to further boost efficiency and effectiveness.</td>
</tr>
</tbody>
</table>
CONTENT

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- Delivery

Issues and Challenges
MOOCs IMPLEMENTATION MODEL

**Input (Enabler/Ecosystem):**
- Infra & Info
- Governance
- Pedagogy
- Curriculum
- Content Development
- Professional Development

**Process:****Issues, Activity / Action Plan / Performance Indicator

**Output (Achieving the objectives):**
- Enhancement in T&L
- HR Efficiency / Cost Reduction
- Branding and Positioning
- Life Long Learning

MOOCs
ENABLER : INFRA & INFO
<table>
<thead>
<tr>
<th>ENABLER</th>
<th>ACTIVITY/ACTION PLAN</th>
<th>PERFORMANCE INDICATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFRASTRUCTURE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Establish Dedicated Network for Education</td>
<td>10 Gbps core inter universities with 20 Gbps IP transits</td>
<td>100 Gbps Core network</td>
</tr>
<tr>
<td>Provide sufficient internet bandwidth (internet speed)</td>
<td>1 Mbps/pax (sufficient for SD video streaming)</td>
<td>5 Mbps/pax (HD videos and games/3D simulations)</td>
</tr>
<tr>
<td>Whitelist bandwidth for local contents by Internet Service Provider (ISP)</td>
<td>50% discount from ISP</td>
<td>60% discount from ISP</td>
</tr>
<tr>
<td>Upgrade Local Area Network (LAN) at Malaysian HLIs</td>
<td>Minimum Single Core of 10 Gbps to distribution switches</td>
<td>10 Gbps Distribution to edge switches</td>
</tr>
<tr>
<td>Provide last mile connection (Wireless (wifi, LTE, wimax) or wired)</td>
<td>60% coverage (learning spaces /residential areas)</td>
<td>80% coverage (learning spaces /residential areas)</td>
</tr>
<tr>
<td>Provide secure identity federation for authentication and authorization to allow student mobility</td>
<td>50% Single Sign On (SSO) facilities in all Malaysian HLIs subscribed to national federated ID</td>
<td>70% Single Sign On (SSO) facilities in all Malaysian HLIs subscribed to national federated ID</td>
</tr>
<tr>
<td>Provide hardware for e-content development inclusive of auto lecture capture system</td>
<td>1 complete production system /HLIs</td>
<td>1 complete ‘state-of-the-art’ production system /HLIs</td>
</tr>
</tbody>
</table>

**INFOSTRUCTURE**

<p>| Provide software for e-content development via central contract | License for 50% of staff | License for 75% of staff | License for 100% of staff |
| - Server (cloud based) license | | | |
| - Discounted price of individual based license | | | |</p>
<table>
<thead>
<tr>
<th>PLATFORM</th>
<th>3 courses per IPTA/year</th>
<th>3 courses per IPTA/year</th>
<th>3 courses per IPTA/year</th>
</tr>
</thead>
<tbody>
<tr>
<td>International MOOC platform</td>
<td></td>
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<tr>
<td>Continue collaborating with OpenLearning</td>
<td>3 courses per IPTA/year</td>
<td></td>
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</tr>
<tr>
<td>Migrate a few established Malaysia MOOCs to be offered on top international MOOC platform</td>
<td></td>
<td>5 courses from any IPTA</td>
<td>10 courses from any IPTA</td>
</tr>
<tr>
<td>Establish National MOOC Platform (MyMOOC) for offering common courses to HEIs</td>
<td>1 platform selected and customized</td>
<td></td>
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<tr>
<td>- Explore a few suitable international platforms (eg; CN, EDx) for source code sharing</td>
<td></td>
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<tr>
<td>Establish e-content repository and streaming facility</td>
<td>SD video streaming, online assessment, asynchronous communication</td>
<td>HD video streaming, online assessment, video chatting (synchronous, games)</td>
<td>Full HD video streaming. Online assessment, telepresence (synchronous, games)</td>
</tr>
<tr>
<td>------------------------------------------------------</td>
<td>------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
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<tr>
<td>- video repository</td>
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<tr>
<td>- e-content repository</td>
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<tr>
<td>- video streaming</td>
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<tr>
<td>- web conferencing</td>
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<td></td>
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<tr>
<td>- video conferencing</td>
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</tbody>
</table>

**DEVICES AND EQUIPMENTS**

| Provide financial support for the procurement of mobile learning devices | 100% students and 90% staff | 100% staff and students | - |
GOVERNANCE
<table>
<thead>
<tr>
<th>ENABLER</th>
<th>ACTIVITY/ACTION PLAN</th>
<th>PERFORMANCE INDICATOR</th>
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<tbody>
<tr>
<td><strong>GOVERNANCE</strong></td>
<td></td>
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<tr>
<td></td>
<td>Establish National e-Learning Centre (NeLC) to plan, coordinate, develop and monitor all e-learning initiatives of HLIs including Malaysia MOOCs with all relevant councils &amp; MDeC (refer diagram below) with international networkings</td>
<td>NeLC fully operational with dedicated staffs and meeting all the targets for this phase</td>
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<tr>
<td><strong>STRUCTURE</strong></td>
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<tr>
<td><strong>POLICY</strong></td>
<td>Realign DePAN with GOL initiatives</td>
<td>Targets set for DePAN (1st Phase) achieved</td>
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</tbody>
</table>
PEDAGOGY
### 7.3 Pedagogy

<table>
<thead>
<tr>
<th>ENABLER</th>
<th>ACTIVITY/ACTION PLAN</th>
<th>PERFORMANCE INDICATOR</th>
</tr>
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<tbody>
<tr>
<td></td>
<td><strong>STRATEGY/ DELIVERY MODE</strong></td>
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<tr>
<td></td>
<td>Integration of Malaysia MOOCs in the delivery of courses at HLIs</td>
<td></td>
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<tr>
<td></td>
<td>12 of Malaysia MOOCs integrated in the delivery of the courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>21 of Malaysia MOOCs integrated in the delivery of the courses</td>
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<tr>
<td></td>
<td>33 of Malaysia MOOCs integrated in the delivery of the courses</td>
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</tbody>
</table>
QUALITY ASSURANCE
### 7.4 Quality Assurance

<table>
<thead>
<tr>
<th>ENABLER</th>
<th>ACTIVITY/ACTION PLAN</th>
<th>PERFORMANCE INDICATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUALITY ASSURANCE</td>
<td></td>
<td>2015-2018</td>
</tr>
<tr>
<td></td>
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<td>2019-2021</td>
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<tr>
<td></td>
<td></td>
<td>2022 – 2025</td>
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<tr>
<td>CREDIT TRANSFER</td>
<td></td>
<td></td>
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<tr>
<td>Develop mechanism for</td>
<td>12 Malaysia MOOCs</td>
<td>21 Malaysia MOOCs</td>
</tr>
<tr>
<td>credit transfer in collaboration with MQA</td>
<td>acceptable for credit transfer</td>
<td>acceptable for credit transfer</td>
</tr>
<tr>
<td>Establish international</td>
<td>Malaysia MOOCs part of international MOOCs</td>
<td>Malaysia MOOCs part of</td>
</tr>
<tr>
<td>benchmarking</td>
<td>consortium</td>
<td>international MOOCs consortium</td>
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<tr>
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</tbody>
</table>
E-CONTENT DEVELOPMENT
<table>
<thead>
<tr>
<th>ENABLERS</th>
<th>ACTIVITY/ACTION PLAN</th>
<th>PERFORMANCE INDICATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-CONTENT DEVELOPMENT</td>
<td>Establish dedicated unit for e-content development at respective HLIs</td>
<td>1 unit/ IPTA</td>
</tr>
<tr>
<td></td>
<td>Identify courses and develop e-content according to the MOOCs Guidelines</td>
<td>3 courses per IPTA/year</td>
</tr>
<tr>
<td></td>
<td>Allocate funding for the e-content development</td>
<td>RM200K/course/IPTA/year</td>
</tr>
</tbody>
</table>

*the involvement of Private HEIs highly encourage in content development*
<table>
<thead>
<tr>
<th>INSTRUCTIONAL DESIGN</th>
<th>Malaysia MOOCs Guidelines established.</th>
<th>Malaysia MOOCs Standard established.</th>
<th>Enhanced the standard of Malaysia MOOCs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop minimum standard of MOOCs Malaysia in collaboration with MDeC</td>
<td>Completed 100% course content</td>
<td>Fully Accredited for institutional credit transfer</td>
<td>Fully Accredited for institutional credit transfer via fully online</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DEVELOPMENT</th>
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</thead>
<tbody>
<tr>
<td>Complete the 4 pilot MOOCs by respective HEIs (100%) with collaboration from other HEIs.</td>
<td>12 courses/HLIs (6 common courses, 3 niche and 3 skill based courses)</td>
<td>9 courses/HLIs (3 common courses, 3 niche and 3 skill based courses)</td>
<td>9 courses/HLIs (3 common courses, 3 niche and 3 skill based courses)</td>
</tr>
</tbody>
</table>
| Develop courses of the following types;  
- common course  
- niche course  
- lifelong learning/skill based course with collaboration with MDeC | | | Total of 600 MOOCs developed by Malaysian HLIs at the end of 2025 |
PROFESSIONAL DEVELOPMENT
<table>
<thead>
<tr>
<th>ENBLER</th>
<th>ACTIVITY/ACTION PLAN</th>
<th>PERFORMANCE INDICATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>AKEPT</td>
<td>To establish a dedicated strategic program (specialized agenda) for MOOCs initiative via AKEPT in collaboration with MOOCs technical committees, MEIPTAs, MAGNETICs, MAPITA</td>
<td>90 master trainers /year trained</td>
</tr>
<tr>
<td>HLIs</td>
<td>Conduct in house training on MOOCs by AKEPT certified master trainers</td>
<td>100% of master trainers trained at AKEPT conduct training at HLIs</td>
</tr>
</tbody>
</table>
ENCULTURATION AND RECOGNITION
<table>
<thead>
<tr>
<th>ENABLER</th>
<th>ACTIVITY/ACTION PLAN</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>To establish award of MOOC development and delivery under the purview of MEIPTA, MAGNETIC &amp; MDeC.</td>
<td>Award at national level</td>
</tr>
<tr>
<td></td>
<td>Develop mechanisms to attract international students to participate in Malaysian MOOC initiatives.</td>
<td>10% of Malaysian MOOCs students consist of international students</td>
</tr>
<tr>
<td></td>
<td>Increase Webometric ranking in terms of presence.</td>
<td>5 public HEIs listed in the top 200 Webometric ranking (in term of presence)</td>
</tr>
<tr>
<td>Activity</td>
<td>Frequency</td>
<td>Frequency</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
<td>--------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Organize Malaysian MOOC International conference for international visibility</td>
<td>Every 2 years</td>
<td>Every 2 years</td>
</tr>
<tr>
<td>Feature prominent figures/ renowned experts</td>
<td>1 course/year</td>
<td>1 course/year</td>
</tr>
</tbody>
</table>
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### Issues and Challenges
ORGANISATIONAL STRUCTURE

Main Committee
(Minister)

Working Committee
(PROF. DATO’ SHAHRIN / PROF. KARIM)

Training Committee
Infrastructure Committee
Technical Committee
E-Content Committee

PLATFORM

Students
• Established at UTeM to ensure the successful implementation of Malaysia MOOCs
• Responsible to National Higher Education Council chaired by Minister of Education
• Coordinate the MOOCs development and development of Malaysian HLIs
• Responsible for networking, promotion of Malaysia MOOCs
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Issues and Challenges
PLATEFORM

- One of the top MOOC providers
- No cost to MOE (platform and hosting)
- Very Stable
- Provision of data and analytics
- Willing to update features to conform with our future needs
- Users friendly in terms of course development

List of MOOC Providers

1. EdX – A Not-for-profit enterprise with M
2. Coursera – A social entrepreneurship co Koller from Stanford University.
4. Udacity – Udacity was an outgrowth of a offered their ‘Introduction to Artificial Intelligence’ 190 countries enrolled.
5. Futurelearn - The first UK-led multi-institutional platform around the world. It is a private
7. iVersity – A company with a diverse international collaboration network for academia.
8. Open2Study – An initiative of Open University collaboration of several Australian univer
9. Canvas – An open, online course network
10. 10gen Education - an online learning plat
11. OpenLearning
Landing page consists of the followings:

- Course Introduction
- Course Synopsis
- Course syllabus
- Course Learning Outcomes (CLOs)
- Pre-requisite Knowledge
- Course Delivery Format
- Instructors Information
- Date Commence and Date/Course Duration
- FAQs
- Announcements
Flow of content page:

Sub-Topic

Topic Learning Outcomes

Learning Materials (mainly video)

Learning Activities

Assessment

Further Reading
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### Issues and Challenges
Sequence of Developmental Activities

- Identify topic/course objective/prerequisite knowledge
- Preparation of learning material (chunking into smaller topic)
- Script and storyboard
- Development of video and learning materials
- Editing of video and leaning materials
- Development of learning activities
- Development of assessment
- Evaluation
- Upload into the platform
- Pilot deployment
- Enhancement
- Official offering and launching
For each topic, sequence of events of instruction consists of the followings:

- Gaining Attention
- Learning Objectives
- Stimulate recall of prior knowledge
- Present the material
- Provide learner guidance
- Elicit Performance
- Provide informative feedback
- Assess if objectives have been achieved
- Enhance retention and transfer
Alignment of course learning objectives with topic learning objectives, learning activities and assessment:

Course Learning Outcomes (CLOs):
• Each course has between 3-7 CLOs with course duration ranging from 6-14 weeks
• Each CLOs can be completed within of about 2 weeks

Topic Learning Outcomes (TLOs):
• Each CLOs has 2-4 Learning topics
• Each topic has its own topic learning objectives
### Course Learning Objective 1

#### Topic 1

**Topic Learning Outcomes (TLOs):**

- (Higher Order Thinking Skills:
  - Understand...
  - Appreciate...
  - Analyse...)

<table>
<thead>
<tr>
<th>Week 1: Content</th>
<th>Week 1: Activities</th>
<th>Week 1: Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video 1.1</td>
<td>Discussion (Forum Board)</td>
<td>Multiple Choice Quiz</td>
</tr>
<tr>
<td>Video 1.2</td>
<td>Homework</td>
<td>Interactive Quizzes</td>
</tr>
<tr>
<td>Further Readings</td>
<td>Assignments</td>
<td>Peer Assessment</td>
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<td></td>
<td>Observation</td>
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<td></td>
<td>Reflective Journal</td>
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<td>Wiki</td>
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<td></td>
<td>Personal Research</td>
<td></td>
</tr>
</tbody>
</table>

#### Topic 2

**Topic Learning Outcomes (TLOs):**

- (Higher Order Thinking Skills:
  - Understand...
  - Appreciate...
  - Analyse...)

<table>
<thead>
<tr>
<th>Week 2: Content</th>
<th>Week 2: Activities</th>
<th>Week 2: Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video 2.1</td>
<td>Discussion (Forum Board)</td>
<td>Multiple Choice Quiz</td>
</tr>
<tr>
<td>Video 2.2</td>
<td>Homework</td>
<td>Interactive Quizzes</td>
</tr>
<tr>
<td>Quiz</td>
<td>Assignments</td>
<td>Peer Assessment</td>
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<tr>
<td>Readings</td>
<td>Observation</td>
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<tr>
<td></td>
<td>Personal Research</td>
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</tr>
</tbody>
</table>
The main course content is in the form of video (70%)

Two types of video:
- Original developed content
- Reusable and link from existing video

Format of original content:
- Studio recorded video (green screen)
- Recorded in the lecture hall
- Interview with expert
- Field work
- Animation to explain difficult concepts
- Slide with presenter
• Content must be aligned with the TLO
• Combination of various format – presentation by expert, interview, role play, field work, discussion etc
• Consists only the essential element
• Ideal duration 10-15 minutes per video
• A course normally has between 180 -360 minutes of video.
• Other activities must be incorporated to ensure student have sufficient student learning time (SLT)
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### Issues and Challenges
Course Developed & Delivered

<table>
<thead>
<tr>
<th>COURSE TITLE</th>
<th>LANGUAGE OF DELIVERY</th>
<th>University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Islamic and Asian Civilization</td>
<td>Malay Language</td>
<td>UPM</td>
</tr>
<tr>
<td>Ethic Relation</td>
<td>Malay language</td>
<td>UKM</td>
</tr>
<tr>
<td>Entrepreneurship</td>
<td>English</td>
<td>UiTM</td>
</tr>
<tr>
<td>Computer Literacy</td>
<td>English</td>
<td>UniMAS</td>
</tr>
</tbody>
</table>
TRAINING

• Two types of Training:
  - Development
  - Delivery
• Trainings were conducted at AKEPT and respective HLIs
SUCCESSFUL DEPLOYMENT

54,690
Total no. of enrollment

22,048
TITAS

16,909
Ethnic Relation

10,131
Intro to Entrepreneurship

53,721
HLIs Students

9,699
Others

5,602
Computer Literacy
More than 70% respondents registered TITAS and Hubungan Etnik.

Only a few universities offered ICT Competency and Introduction to Entrepreneurship.
More than 90% of the respondents experienced learning through MOOC for the first time.
About 50% of respondents accessed at least once a week.
Almost 50% of the respondents accessing MOOC in the evening
Almost 80% of the respondents used Wi-Fi campus to access MOOC.
More than 75% of the respondents accessing MOOC from their hostels
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Issues and Challenges
Among the issues and challenges are:

i. Broadband and wifi access
ii. Varied level of readiness and capacity in developing MOOC among Malaysia HLIs
iii. Common courses across HLIs – Credit transfer mechanism
iv. Life long learning Enculturation among Malaysian public
THANK YOU