REDESIGNING LEARNING THROUGH MOOCs

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GOVERNMENT-LED OER INITIATIVE IN MALAYSIA

**OER = Open Educational Resource**

**OCW = Open CourseWare**

**MOOC = Massive Open Online Course**

**I2S = Instructor to Student**

**S2S = Student to Student**

**Face-to-face Learning (F2F)**

**Online Environment**

**Massive scale, Collaborative Interaction, I2S, S2S**

**Online Learning**

**BLENDED LEARNING**

**GOVERNMENT-LED OER INITIATIVE IN MALAYSIA**

**Online Environment**

**MOOC**

**BLENDED LEARNING**
OPEN EDUCATION POLICIES IN MALAYSIA

Malaysia Education Blueprint 2015-2025 (Higher Education)

National E-Learning Policy 2.0 (2015-2025)
DOMAINS OF NATIONAL E-LEARNING POLICY 2.0 (2015-2025)

01 Infrastructure and Infostructure
02 Governance
03 Online Pedagogy
04 e-Content
05 Professional Development
06 Enculturation
# NATIONAL E-LEARNING POLICY 2.0 (2015-2025) –
## DOMAIN 3: ONLINE PEDAGOGY

<table>
<thead>
<tr>
<th>DOMAIN</th>
<th>FOCUS AREA</th>
<th>PHASE 1 2015</th>
<th>PHASE 2 2016 - 2020</th>
<th>PHASE 3 2021 - 2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>ONLINE PEDAGOGY</td>
<td>BLENDED LEARNING</td>
<td>30% of all courses offered are delivered in blended learning mode</td>
<td>50% of all courses offered are delivered in blended learning mode</td>
<td>70% of all courses offered are delivered in blended learning mode</td>
</tr>
<tr>
<td></td>
<td>OPEN COURSE</td>
<td>Every HEI must offer at least 3 MOOCs</td>
<td>Every HEI must offer at least 15 MOOCs</td>
<td>Every HEI must offer at least 30 MOOCs</td>
</tr>
<tr>
<td></td>
<td>E-ASSESSMENT</td>
<td>5% of e-assessments in blended learning mode</td>
<td>10% of e-assessments in blended learning mode</td>
<td>15% of e-assessments in blended learning mode</td>
</tr>
</tbody>
</table>
## NATIONAL E-LEARNING POLICY 2.0 (2015-2025)

### DOMAIN 4: E-CONTENT

<table>
<thead>
<tr>
<th>Domain</th>
<th>Focus Area</th>
<th>Phase 1 2015</th>
<th>Phase 2 2016-2020</th>
<th>Phase 3 2021-2025</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>E-CONTENT</strong></td>
<td><strong>ORIGINAL E-CONTENT</strong></td>
<td>10% of all courses offered must have original e-content</td>
<td>20% of all courses offered must have original e-content</td>
<td>40% of all courses offered must have original e-content</td>
</tr>
<tr>
<td></td>
<td><strong>OPEN E-CONTENT</strong></td>
<td>5% of all courses offered at HEI developed and offered as Open Courseware (OCW)</td>
<td>10% of all courses offered at HEI developed and offered as Open Courseware (OCW)</td>
<td>15% of all courses offered at HEI developed and offered as Open Courseware (OCW)</td>
</tr>
<tr>
<td></td>
<td><strong>E-CONTENT STANDARD</strong></td>
<td>Standard for e-content <strong>being developed</strong></td>
<td>Standard for e-content <strong>being used</strong></td>
<td>Standard for e-content being internationally benchmarked</td>
</tr>
</tbody>
</table>
MALAYSIAN HIGHER EDUCATION BLUEPRINT
2015 - 2025

Wave 1: 2015
Build momentum and lay foundations

Wave 2: 2020
Accelerate system improvement

Wave 3: 2025
Move towards excellence with increased operational flexibility
SHIFT #9: Globalized Online Learning

of Malaysian Education Blueprint: Higher Education 2015 - 2025

Enhancing the quality of teaching and learning; bringing niche area to Global arena; visibility, positioning and branding; as well as lifelong learning.
is a collaboration between Malaysian universities to produce courses in 3 categories: common courses among the universities, niche courses of each universities and lifelong learning (skills) courses

Governed by Ministry of Education Malaysia

Coordinated by the National E-Learning Council (MEIPTA)
Malaysia MOOCs Framework

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

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

**Output (Achieve the Objectives):**
- Enhancement in T&L
- HR Efficiency/Cost Reduction
- Branding and Positioning
- Life long Learning

MOOCs
4 Pioneer Courses Launched in 2014

- **PUTRAMOOC**: Islamic Civilization and Asian Civilization
  - Enrollment: 139,964

- **UKM MOOC**: Integration & Ethnic Relation in Malaysia
  - Enrollment: 118,874

- **UiTM MOOC**: Introduction to Entrepreneurship
  - Enrollment: 32,840

- **UNIMAS MOOC**: ICT Competency
  - Enrollment: 20,156

STATISTICS

2014 - 2018

MALAYSIAN PUBLIC UNIVERSITIES

20

TOTAL NO. OF MOOCS

584

TOTAL ENROLMENTS

472,164
SOCIAL LEARNING PLATFORM

https://www.openlearning.com/malaysiamoocs

LEARNING TECHNOLOGY

COURSE DESIGN ➔ COURSE DISCOVERY ➔ COURSE DELIVERY

CERTIFICATION TECHNOLOGY

CERTIFICATION ➔ ASSESSMENT ➔ ANALYTICS
Innovative expansion of knowledge reflecting **Rhizomatic model of learning**.

Leveraging on the use of **blended learning** through **flipped classroom** for on-campus students.
EDUCATION 4.0

4 pillars of 4th Industrial revolution

01 PERSONALISED

02 PREDICTIVE

03 PREVENTIVE

04 PARTICIPATORY
PERSONALIZED LEARNING

Flexible Learning Pathways

Self-regulated Learning

Digital Literacies

Learning-oriented Assessment

Seamless Learning

Lifelong And Life-wide Learning
REDESIGNING MALAYSIAN HIGHER EDUCATION

GUIDELINES FOR THE DEVELOPMENT AND DELIVERY OF MALAYSIA MOOC

GUIDELINES ON CREDIT TRANSFER FOR MASSIVE OPEN ONLINE COURSES (MOOC)

GUIDELINES FOR THE DEVELOPMENT AND DELIVERY OF MALAYSIA MOOC

GUIDELINES ON CREDIT TRANSFER FOR MASSIVE OPEN ONLINE COURSES (MOOC)

BY MALAYSIAN QUALIFICATION AGENCY IN 2016
The Guideline for the Accreditation of Prior Experiential Learning Credit Award - APEL (C), and the Credit Transfer for MOOC (Massive Open Online Courses) Guideline allow individuals with working experiences and various short courses to be entitled for credit transfers taken in the respective academic programmes offered in higher education institutions - decreasing the duration of their studies compared to regular studies.

APEL (C) encompasses assessment on prior learning experiences (non-formal and informal) for the purpose of awarding credits. This includes learning through MOOC and other self-learning method in the Malaysian Qualifications Framework (MQF).
CREDIT TRANSFER MOOC (CTM)

To award credits for MOOCs, three major criteria has to be fulfilled:

- Quality
- Sufficient curriculum content
- Equivalency of credits for the MOOC offered
- Authentication of candidates
- Verification on the achievement based on the competency assessed.
TRAINING AND SUPPORT

We provide local and international trainings. Do contact us for more information.
Module 2: Learning

In this module, we will explore more about Learning including how we and most people learn. We will also discuss how we can design better and more meaningful learning based on what we know about how people learn and how the brain works. Finally, we will share the different social media tools/platform each of us prefer for our personal/professional learning environment/network. We will spend TWO to THREE weeks on this module, so please complete Task 2.1 & Task 2.2 in the first week and Task 2.3, Task 2.4 & Task 2.5 in the second week.

2.1 What is Learning?

2.2 How I Learn

2.3 How People Learn?
Social Media enable us to exchange messages, ideas, pictures, audio, video files and other documents within an nearly unlimited online community. This exchange is documented for the whole community and creates a new online public sphere.

In 2016, Merriam-Webster defined social media as "Forms of electronic communication (such as Web sites) through which people create online communities to share information, ideas, personal messages, etc."

In a few words, please share with the rest of us what is your conception of Social Media? If you like you can also use pictures/images to represent your ideas.

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Social media are the tools used to communicate messages or “content” (text, images, video, audio, links) synchronously or asynchronously to individuals, groups or to the public over the internet, i.e. using a variety of desktop or portable devices. Physical distance is bridged, the audience is virtually global. The media are social.

Social media are computer-mediated technologies that allow the creating and sharing.

Social media is a construct that encourages socialisation in a

Social Media

Azwin Arif

Aizuddin Zulkefi

Radziah Adam

Kamarul Hamzah

Mohd Jeffri Abdullah

Alicia Brown

Wee Ai Sze

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when talk about social media, i will imagine about facebook, instagram and twitter. The social media can help people to connect with other person although they live far each other. People also can share their experience, photo and beautiful moment with friends.
UMTMOOOC - Sea Turtle Biology & Conservation

Sea Turtle Biology and Conservation

Status: On now

Students: 1678

Join the course
PUTRAMOOC
PUTRA MASSIVE OPEN ONLINE COURSE

Featured Courses

- TAMADUN ISLAM & TAMADUN ASIA
  - Tamadun Islam dan Tamadun Asia (TITAS)
  - Students: 41553
  - On now

- AGRICULTURE & MAN
  - Agriculture and Man
  - Students: 1499
  - On now

- INTRODUCTORY ENGINEERING MATHEMATICS
  - Introductory Engineering Mathematics
  - Students: 464
  - On now

- ISLAMIC FINANCE: PRINCIPLES & APPLICATION
  - Islamic Finance: Principles & Applications
  - Students: 446
  - On now

- MALAY ARTS
  - Malay Arts
  - Students: 342
  - On now

- MALAYSIAN FOOD HERITAGE
  - Malaysian Food Heritage
  - Students: 317
  - On now

https://www.openlearning.com/putramooc

E=mc^2
A N O P E N E D U C A T I O N I N I T I A T I V E  B Y  U P M

PUTRAMOOC
PUTRA MASSIVE OPEN ONLINE COURSE

A N O P E N E D U C A T I O N I N I T I A T I V E  B Y  U P M

https://www.openlearning.com/putramooc
INNOVATIVE MOOCs

1. GAMIFYING MOOCs
2. Meaningful engagement through Interactive MOOCs
3. Challenge based learning
4. Experiential learning
5. Inter-Trans-Multidisciplinary MOOCs
### MODULE 2: MICROBIAL GROUPS

#### Learning Outcomes:
1. To differentiate various bacterial properties and activities.
2. To differentiate various properties of viruses.
3. To determine fungal properties and classification.
4. To differentiate various properties of protists.

<table>
<thead>
<tr>
<th>CONTENT</th>
<th>ACTIVITY</th>
<th>ASSESSMENT</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td><strong>i. Bacteria and archaea</strong></td>
<td><strong>Learning resources</strong></td>
<td>- Quizizz&lt;br&gt;- Quizalize&lt;br&gt;- Quizlet&lt;br&gt;- Dotstorming</td>
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<td>- Explee&lt;br&gt;- Moovly&lt;br&gt;- Role play&lt;br&gt;- Istudio</td>
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<td><strong>ii. Fungi</strong></td>
<td><strong>Student activities</strong></td>
<td></td>
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<tr>
<td><strong>iii. Protists</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>iv. Virus</strong></td>
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Experiential Learning in Microbiology

Hi everyone! Welcome to the world of amazing microbes!

In this page, you will be sharing your ideas, stories, exploration and your experiences learning microbiology.

Enjoy your journey to discover the amazing world of microbes!

Create New Group

My Groups
All my groups

MICROBES ON THE GO
Study Group (Public, Open!)
The first semester break assignment
42 Members
Open Joined Leave

MINIC
Study Group (Public, Open!)
Microbes Invention, Innovation and Ideation Challenge 2017. A collaborative project between 3 pr...

MINIC2018 - MICROBIAL ECOL...
Study Group (Public, Open!)
A project based learning of microbial ecology with Microbes Invention

PECHA KUCHA MICROBES 2018
Study Group (Public, Open!)
A project called Thank A Microbe is designed for learners to be able to...
HINT: The answer is the password

I'm sorted under the colour of Barney's belly,
New Zealand is my beautiful country,
The sun makes my belly full,
But oxygen would kill me too!
Unlike the others,
Any clue what I am mate?

What Microbes Are You?
Welcome to VIRTUAL MICROBES

We hope you will have a wonderful time learning Microbiology with Technology, collaboratively, virtually together!

Hi everyone, first of all, please go through the Overview of the Virtual Microbes and then join your group by following the instructions provided in the Student Grouping page. Then click the Grouping checklist. Go through the task with your friends and start discussing virtually.
VM SPECIAL ED

<table>
<thead>
<tr>
<th>VM Special Education</th>
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</tbody>
</table>

Groups
6, 4: Hand washing
9, 12: Pets
7, 8: Shower
11, 13: Food
1, 5: Gut microbes
3, 10: Teeth brushing
2: Intro to microbes
VIRTUAL MICROBES 2017

Groups

VM1G1-TEAM 12
Study Group (Public, Open)
General Microbiology

VM1G1-TEAM 1
Study Group (Public, Open)
GENERAL MICROBIOLOGY

VM1G1-TEAM 10
Study Group (Public, Open)
General Microbiology

VM1G1-TEAM 13
Study Group (Public, Open)
General Microbiology

VM1G1-TEAM 14
Study Group (Public, Open)
General Microbiology

VM1G1-TEAM 15
Study Group (Public, Open)
General Microbiology

Search for a group
Demonstration on how to use Popplet with La Trobe students
Shannon O’Gorman
Hello!
My name is Shannon O’Gorman and I’m a senior psychology major at Lafayette. I am planning on attending Physician’s Assistant school after I graduate and becoming a neonatal Physician Assistant. I also have interest in public health. Very excited to be working with you!
ogorman@lafayette.edu

Cherry1
Hi everyone!
My name is Lindsey Cherry. I am a senior biology major at Lafayette College. After graduation, I will most likely go into a master’s entry into nursing graduate program. I look forward to getting to know and working with all of you!
cherryl@lafayette.edu

Kerr
Hi everyone!
My name is Kendall Kerr, and I’m a senior Biology major and Psychology minor at Lafayette! I’m looking forward to working with you all!
kerr@lafayette.edu

Quang Bui
Hi Everyone,
My name is Quang Bui. I’m a senior Biochemistry major at Lafayette. It’s my first semester taking Microbiology. I’m very excited to work with you!

Anonymous
Hello everyone😊
I am Esther Minors and currently in 2nd semester of Bachelor Science in

Anonymous
Greetings all!
I have a very short name and also short in person. No idea how that correlates but you can call me Ash the Ash

Anonymous
Hello Prof, nice to meet you here. Hello everyone, nice to be learning microbiology
The Challenges:

- Original content & ownership of the MOOC course
- Non-technical/IT savvy lecturers, Non-believers of such approaches
- No monetary incentive
- Not yet ready for award of credits
- SLT for enrolled students - yet to be settled
Student self-directed learning time

International presence and visibility

New learning approaches based on SCL approaches (blending learning and collaborative learning)

Lifelong learning enculturation

Quality and quantity of e-content

Local and international student enrolment

R&D for innovation in teaching and learning

CONCLUSION
THANK YOU

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