

Envisioning future MOOC: the Pride, the Promise, the New Norm of Reality, and the Future

ASEM : MOOC's
Stakeholder Forum 2020
17 December 2020

AP. Ts. Dr. Aishah Abu Bakar
Universiti Malaysia Pahang

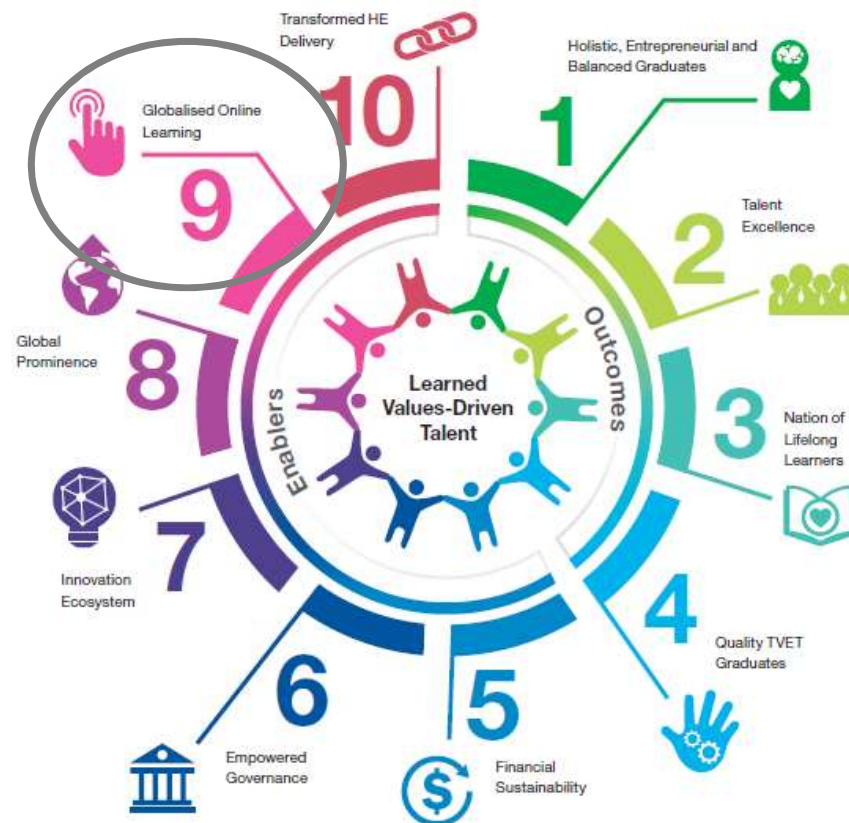


Have We Been Prepared for the New Normal

What is Expected and When



10 SHIFTS



MOOC MALAYSIA

Initiative A1

Upgrading cyber infrastructure

The Ministry will collaborate with the relevant agencies and institutions to improve the following elements:

- Infrastructure: improve bandwidth capacity and Wi-Fi coverage to enable video streaming and teleconferencing;
- Info structure: provide hardware and software for e-content development;
- Platform: work with a range of platform systems from existing international 'OpenLearning' platforms to global recognized platforms such as Coursera and edX; and
- Devices and equipment: increase availability of learning devices.

Initiative A2

Enhancing awareness and recognition

Malaysian HLI will collaborate to develop common courses leveraging the expertise available in the respective institutions and establish mutual recognitions of courses. HLIs will also expand the use of MOOCs in blended learning. To build awareness and interest, the Ministry will introduce mechanism for the development of quality and international standard MOOCs, especially in niche areas where HLIs will be able to achieve global recognition.

Initiative A3

Strengthening content development and delivery

Lecturers will be required to innovate their teaching and learning practices in order to create conducive blended learning environments. To assist them in doing so, Higher Education Leadership Academy or *Akademi Kepimpinan Pengajian Tinggi (AKEPT)* and individual HLI will improve their pedagogical and professional development programmes for academic staff. In addition, the HLIs will need to build their internal capacity to support blended learning content development and delivery by sourcing for relevant experts in subject matter, pedagogy, graphics and IT.

Initiative B1

Strengthening coordination for implementation

Appropriate mechanism will be put in place for the effective management and implementation of GOL initiatives. The establishment of National e-Learning Centre (NeLC) will be considered and evaluated. A centre such as this could enhance policies, guidelines and processes to ensure coordinated efforts in planning, developing and deploying all aspects of online learning including MOOCs. Such coordination is not limited to Malaysian institutions alone, but will also encompass partnerships with international consortiums and HLIs.

Initiative B2

Updating the national e-Learning policy

Successful deployment of GOL will be dependent on an implementation framework guided by international best practices. The Ministry through the NeLC will facilitate the updating of the National e-Learning Policy (DePAN) to incorporate a new MOOCs strategy. HLIs will also be encouraged to keep up with current best practices and technologies for the deployment of GOL.

Initiative C1

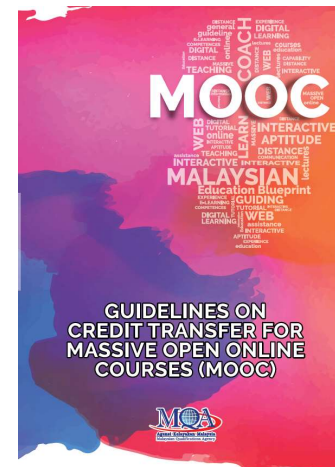
Enabling credit transfer framework recognition

The course curriculum at every Malaysian HLIs needs to be revised to allow for the recognition of courses completed by students via MOOCs. This should be done in consultation with the Malaysian Qualifications Agency (MQA). Malaysian HLIs will also be encouraged to undertake international benchmarking with the target of having Malaysian MOOCs become part of international MOOC consortiums.

Initiative C2

Supporting lifelong learning

The Ministry will develop a common platform to enhance the use of MOOCs for lifelong learning. The Malaysian public can then enrol in low-risk and low-cost courses, which will provide them the opportunity to access high quality credit-bearing courses. These credits could, in turn, be recognised towards a diploma or even a degree programme. The MOOC initiatives of Malaysian HLIs can also be used to support the continuous professional development of Malaysian civil servants in collaboration with other training agencies. In this way, the MOOCs initiative can become the catalyst for the enculturation of lifelong learning among Malaysians.



MOOC MALAYSIA

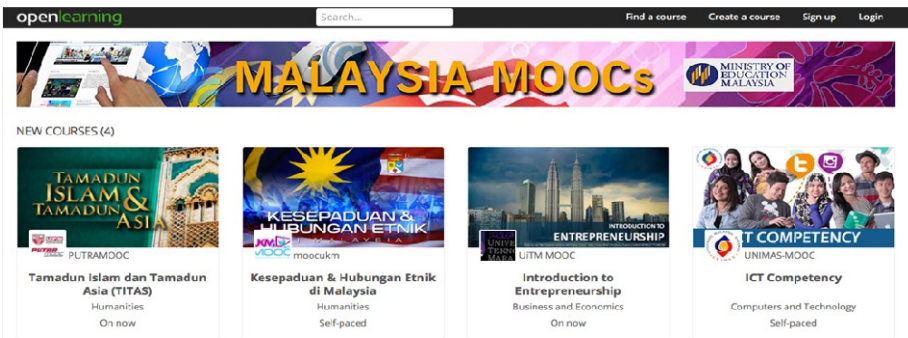
Domain	Focus area	Phase 2015	Phase 2016-2020	Phase 2021-2025
Online Pedagogy	Blended Learning	30% courses offered by IHL are in the form of Blended Learning	50% courses offered by IHL are in the form of Blended Learning	70% courses offered by IHL are in the form of Blended Learning
	Open Courses	Each IHL offers at least 3 MOOC Courses	Each IHL offers at least 15 MOOC Courses	Each IHL offers at least 30 MOOC courses
	E- Assessment	5% of e-Assessment in Blended Learning	10% e-Assessment in Blended Learning	15% e-Assessment in Blended Learning

Source : DePAN 2.0, JPT



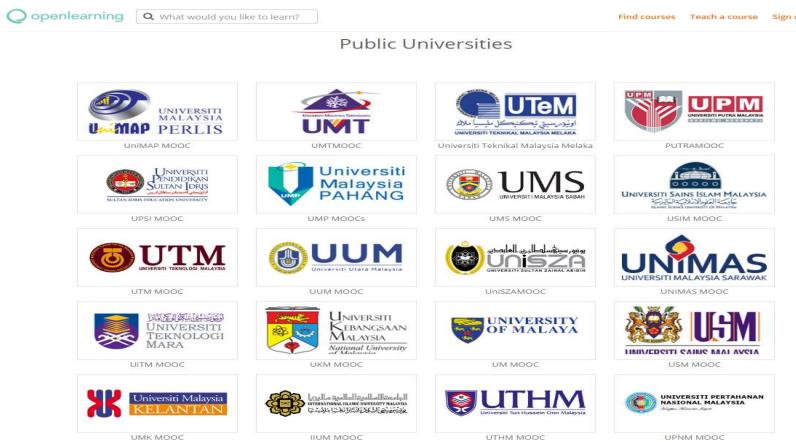
MOOC MALAYSIA

2014 – 4 MOOC courses by 4 pilot public universities (UPM, UKM, UiTM, UniMAS)



Enrolment 54,625

2015 – 65 MOOC courses by 20 (all) public universities



Enrolment 119,287

MOOC MALAYSIA



openlearning

sec.edu - Security Engineering - Applied Cyber Security
Over 2016 and 2017, we will be releasing a sequence of publicly available courses in cyber security....
18,903 Students

Rethinking Teaching; Redesigning Learning
The problem with today's education is that most educators are still teaching the way they were taught in the past....
4,432 Students



Source : 2017 Minister of Higher Education Ministry Mandate

MOOC MALAYSIA



254
MOOCs

427,300
Students in Malaysia

76,000
Enrolments from overseas in
Malaysia MOOC
(UA, IPTS and Polytechnics)
From over 170 Countries



In 2018, every public university need to increase MOOC course to at least 20% from the overall courses offered.

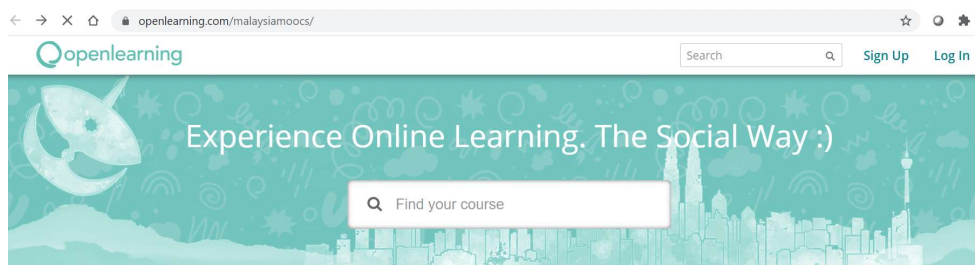
The ministry will assign 2 KPIs where 2 Liberal Education subjects must be taken and completed by students via MOOC.

For Polytechnics, the ministry is targeting 40% of overall students will use MOOC through 70 courses offered beginning 2018.

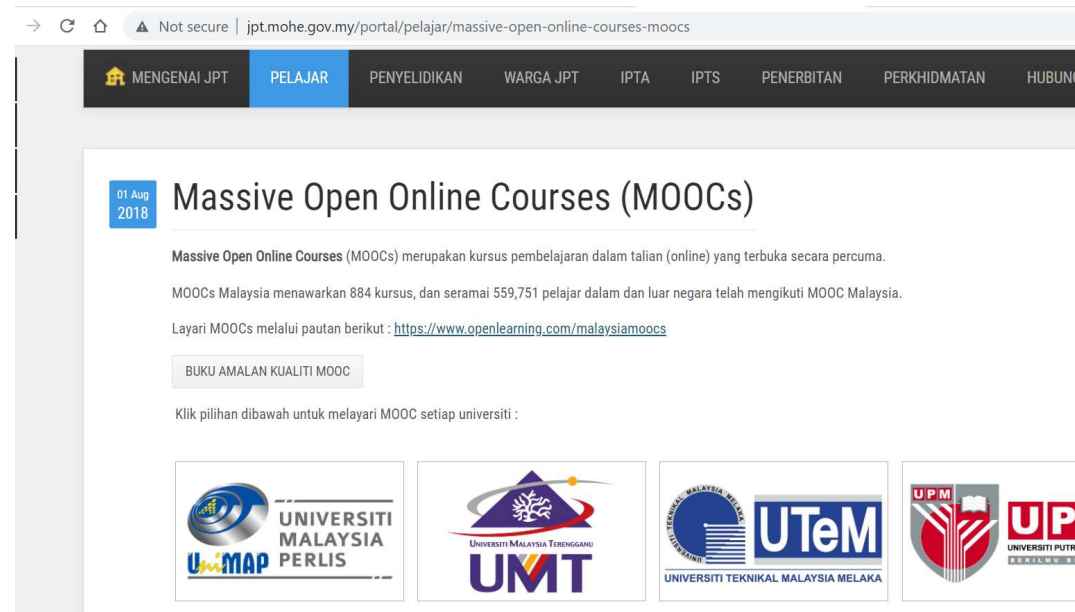


Source : 2018 Minister of Higher Education Ministry Mandate

MOOC MALAYSIA



2018 -
884 MOOC courses by public universities and
Polytechnics
Enrolment – 559,751

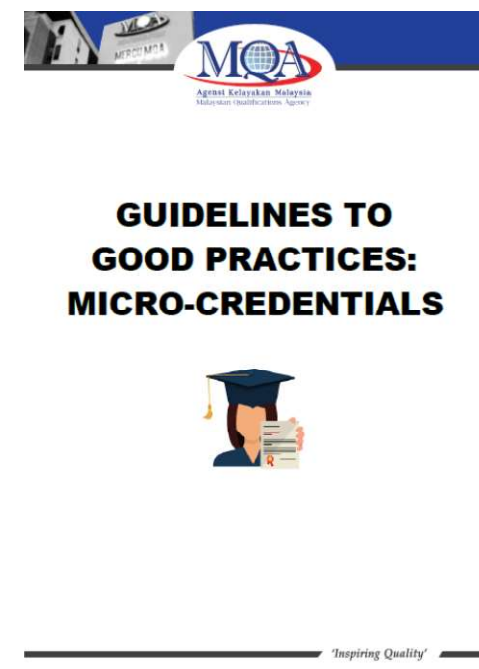
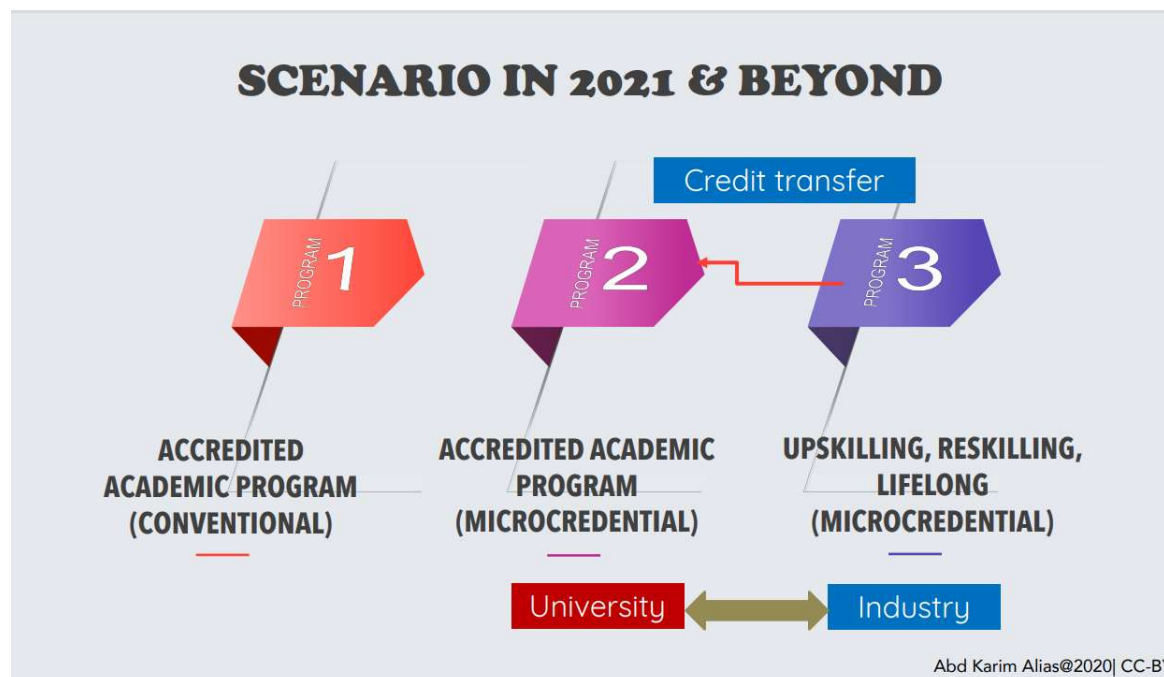


MOOC MALAYSIA MICRO-CREDENTIALS

2019 to
2020 and
BEYOND

**FLEXIBLE
EDUCATION**

ANYTIME ANYWHERE ANYONE



Launched July 2020

MOOC MALAYSIA MICRO-CREDENTIALS 2019 to 2020 and BEYOND



Designing Micro-Credential Programme

Prof. Dr. Abd Karim Alias
Director
Centre for Development of Academic Excellence (CDAE)
Universiti Sains Malaysia (USM)

Moderator: **Assoc. Prof. Dr. Wan Zuhainis Saad**
Director
Division of Academic Excellence, JPT



<https://tinyurl.com/MicrocredentialsJPT>



17 December 2020 (Thursday)



2.30 – 4.30 p.m



<http://jpt.mohe.gov.my> Jabatan Pendidikan Tinggi [jabatanpendidikan tinggi](https://www.facebook.com/jabatanpendidikan tinggi) @jpt_kpt Jabatan Pendidikan Tinggi TV



MC@UTM
Micro-Credential
Officialled by:
Prof. Ir. Ts. Dr.
Zainuddin Abd Manan
Acting Deputy Vice Chancellor
(Academic and International)
1 DECEMBER 2020
(TUESDAY)
9.00-10.00AM
facebook
LIVESTREAM
<https://www.facebook.com/UTMLive>



UTHM
Introduction to
MICRO-CREDENTIAL
30 DESEMBER 2019
8.30 PAGI - 1.00 PETANG
DEWAN JEMAAH, ARAS 5, PTTA.
Dr. Aishah Nuraini (015 3725 379)
Email: aishah@uthm.edu.my
This Course Is Open to
UTHM Academic Staff Only.



Micro-credential@USM

PARTNER WORKSHOP 2 - 4:30-5:30PM MYT

Unbundling Hours: Turning Your University Courses into Micro-credentials



Led by
Assoc Prof Dr Aishah Abu Bakar

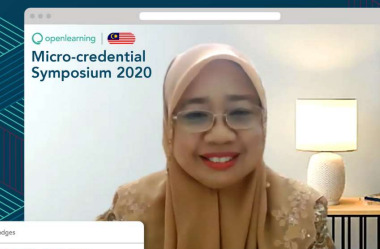


Facilitated by
Dr Dian Indrayani Jambari



Micro-credential Symposium 2020

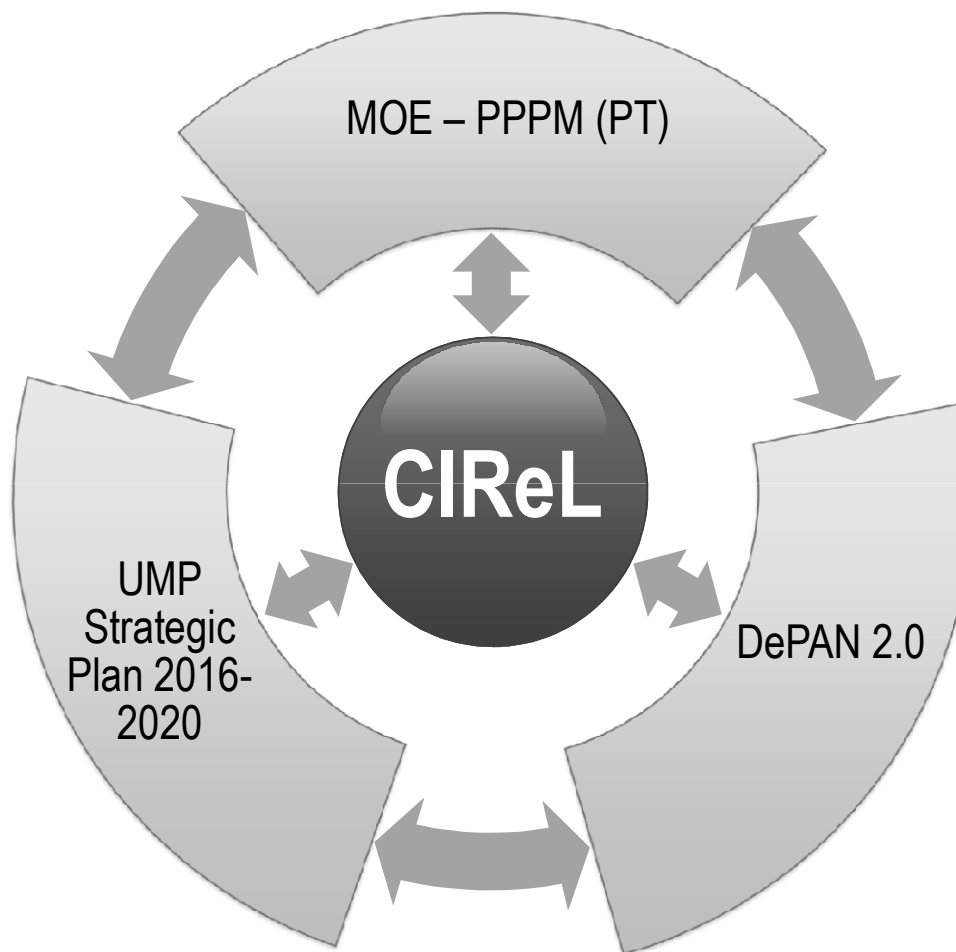
"Micro-credentials can't be just like every other university course. They should still contain relevant topics and theories, but on top of that, micro-credential courses should be created with job-embedded characteristics."



Assoc Prof Dr Aishah Abu Bakar
Director | Centre of Instructional Resources & e-Learning



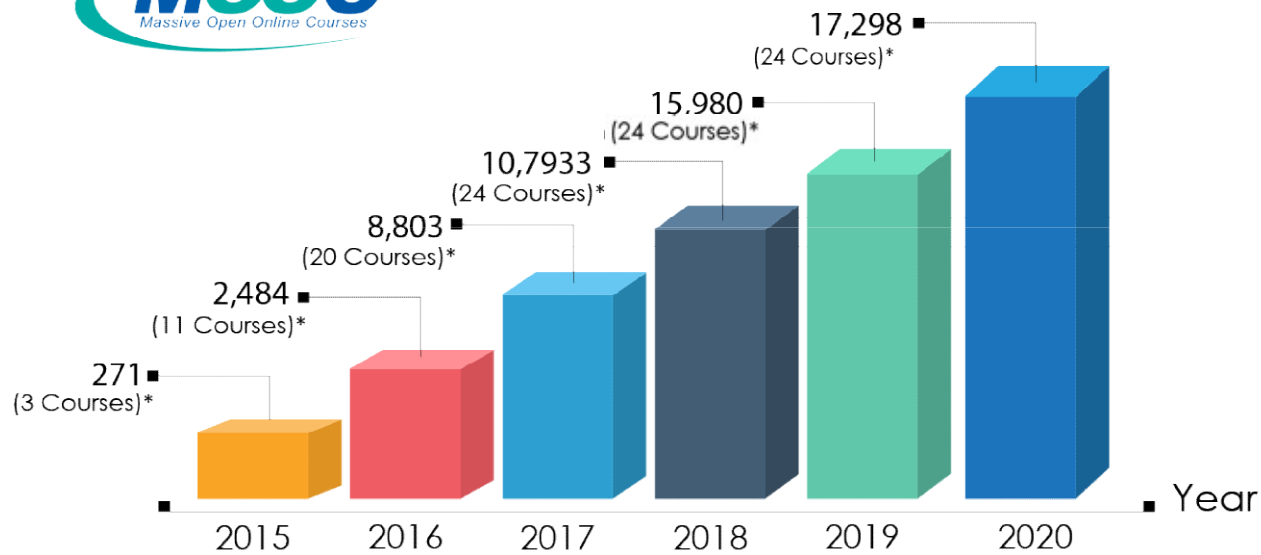




2016-2020 MENJANA KECEMILANGAN
5 LONJAKAN STRATEGIK (STRATEGIC LEAP)



UNIVERSITI MALAYSIA PAHANG MOOC



*Number of available courses

**Enrolment up to September 2020*

**YEAR 2020 TARGET
UMP STRATEGIC PLAN**

20,000
STUDENTS ENROLMENT

24 COURSES : FULL MOOC
50 COURSES : Micro-credential



Universiti Malaysia PAHANG ILMU SUBJECT COURSE ILMU+ ENGLISH (EN) Login/Register

CATEGORIES

This categories offers all the courses from ILMU catalog

Corporate Science	Information Technology	Computer Science	Personal Development
Arts and Humanities	Business	Social Science	Language Learning



This page is currently Under Construction

Please check back soon

Expected to **LAUNCH** Officially in **APRIL 2021**

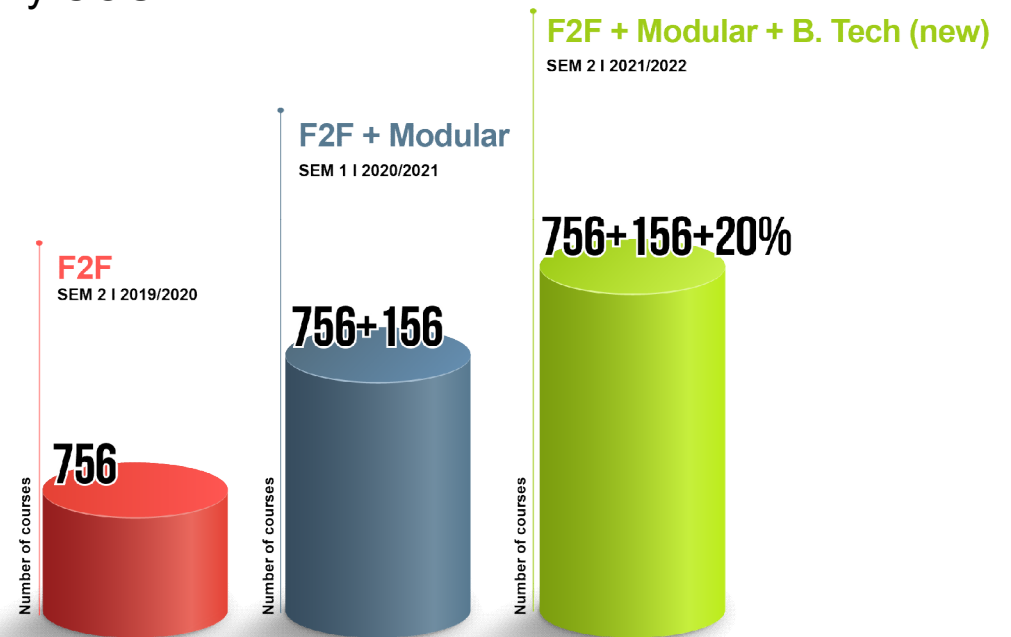


UMP Micro-credentials Development

Week	Topic No	CO	Topic	Sub Topic
1	1	C001	Introduction to Engineering Geology	-Rock material strength and mass structure affecting engineering application of rock -Geological rock formation and cycle
2	2	C001	Soil Formation and its characteristics	1-Formation of various types of soil and its characteristics 2-Coarse and Fine-grained soil, Residual and Transported Soil
3	3	C001	Soil Testing and Classification	1-Soil Testing for classification purposes 2-Engineering Soil Classification - British and Unified Soil Classification System 3-Soil Description
4	4	C002	Phase Diagram and Phase Relationship	1-Phase Diagram and Relationship 2-Phase Relationship problem solving
5	5	C002	Soil Compaction	1-Compaction principles and laboratory tests 2-Field compaction - machinery, technique, specifications and control on site.
6	6	C002	Permeability and Seepage	1-Concept of permeability, laboratory and site testing on permeability 2-Seepage - Flownet and seepage basic concept
7	6	C002	Seepage	1-Flownet and seepage problem solving
8	7	C002	Effective Stress	1-Effect of capillary action, applied load and seepage on effective stress
9	8	C003	Consolidation and Settlement	1-One-dimensional primary consolidation 2-Determination of coefficient of consolidation 3-Correction for construction period
10	9	C003	Compressibility and Settlement of Soil	1-Elastic settlement of soil- shallow foundation
11	9	C003	Shallow Foundation	1-Factor of safety and bearing capacity 2-Eccentric loading on shallow foundation
12	10	C003	Slope Stability	1-Slope failure mode 2-Determination of factor of safety
13	10	C003	Slope Stability	1-The method of slices

STEP 1 – MODULARISATION OF COURSES

Semester 2 session 2019/2020
12 Courses per faculty COURSES



UMP Micro-credentials Development

STEP 2 – MICRO-CREDENTIALING THE MODULAR COURSE 24 Pilot Micro-credentials

Week	Topic No	CO	Topic	Sub Topic
1	1	CO01	Introduction to Engineering Geology	-Rock material strength and mass structure-affecting engineering application of rock -Geological rock formation and cycle
2	2	CO01	Soil Formation and its characteristics	1-Formation of various types of soil and its characteristics 2-Coarse and Fine-grained soil, Residual and Transported Soil
3	3	CO01	Soil Testing and Classification	1-Soil Testing for classification purposes 2-Engineering Soil Classification - British and Unified Soil Classification System 3-Soil Description
4	4	CO02	Phase Diagram and Phase Relationship	1-Phase Diagram and Relationship 2-Phase Relationship problem solving
5	5	CO02	Soil Compaction	1-Compaction principles and laboratory tests 2-Field compaction - mayjneries, technique, specifications and control on site
6	6	CO02	Permeability and Seepage	1-Concept of permeability, laboratory and site testing on permeability 2-Seepage - Flownet and seepage basic concept
7	6	CO02	Seepage	1-Flownet and seepage problem solving
8	7	CO02	Effective Stress	1-Effect of capillary action, applied load and seepage on effective stress
9	8	CO03	Consolidation and Settlement	1-One-dimensional primary consolidation 2-Determination of coefficient of consolidation 3-Correction for construction period
10	9	CO03	Compressibility and Settlement of Soil	1-Elastic settlement of soil- shallow foundation
11	9	CO03	Shallow Foundation	1-Factor of safety and bearing capacity 2-Eccentric loading on shallow foundation
12	10	CO03	Slope Stability	1-Slope failure mode 2-Determination of factor of safety
13	10	CO03	Slope Stability	1-The method of slices

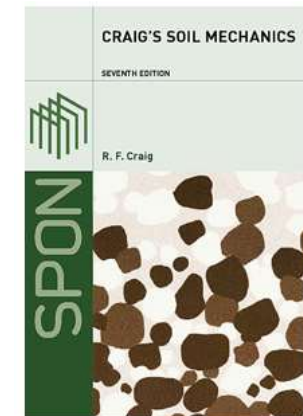
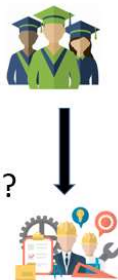
1 Basic characteristics of soils	1
1.1 The nature of soils	1
1.2 Particle size analysis	6
1.3 Plasticity of fine soils	7
1.4 Soil description and classification	9
1.5 Phase relationships	17
1.6 Soil compaction	21
Problems	28
References	29
2 Seepage	30
2.1 Soil water	30
2.2 Permeability	31
2.3 Seepage theory	37
2.4 Flow nets	42
2.5 Anisotropic soil conditions	49
2.6 Non-homogeneous soil conditions	52
2.7 Transfer condition	53
2.8 Seepage through embankment dams	55
2.9 Grouting	66
2.10 Frost heave	
Problems	
References	

SI Company

Contractor

Soil Improvement Company

Identifying theme or category
Apart from being part of the subject
Identify purpose - job scope / company
Who else has been offering such module?
In what way your module will be different?



UMP Micro-credentials Development

STEP 3 – CONTENT DEVELOPMENT

24 Pilot Micro-credentials courses
MICRO-CREDENTIALS TVET ONLINE (MCTO)



iStudio Recording
 facility for digital content development

Centre of Instructional Resources & e-Learning (CiReL) is offering a recording facility to all lecturers at our iStudio Pekan. Feel free to create and record your video(s) for teaching and learning purposes.

- Green Screen Setup**
 We provide 3 kinds of setup to help you make a better video!
 Green Screen Setup for Video Recording
- Overhead Video Setup**
 Overhead Video Shoot with paper
 Camera and *iPad Stylus
 *You are encourage to bring your own iPad
- Camera & iPad Stylus**

How to book a session?
 Please scan the QR code to book your session(s)

Starting from
 9 November 2020

Time
 09 : 00am - 01: 00 pm
 02 : 00pm - 04: 00pm

For more details on the types of videos that you may produced from those setup, please visit our website on booking session.
cirel.ump.edu.my



ONLINE WORKSHOP
 LIVE JOIN US!

Webinar: **Designing Engaging Online Course**

21st Nov 2020
Saturday
 09:00am - 01:00pm
 Meeting ID: 300 635 6253

Organized by:
 PUSAT SUMBER PENGAJARAN & PEMBELAJARAN (PSPN)
 UNIVERSITI MALAYSIA PAHANG

SHALIZA JAMAL
 Proprietor / Learning Designer



Collaborative Action Research – MCTO Pilot Group



Guidelines for Quality Digital Content UMP

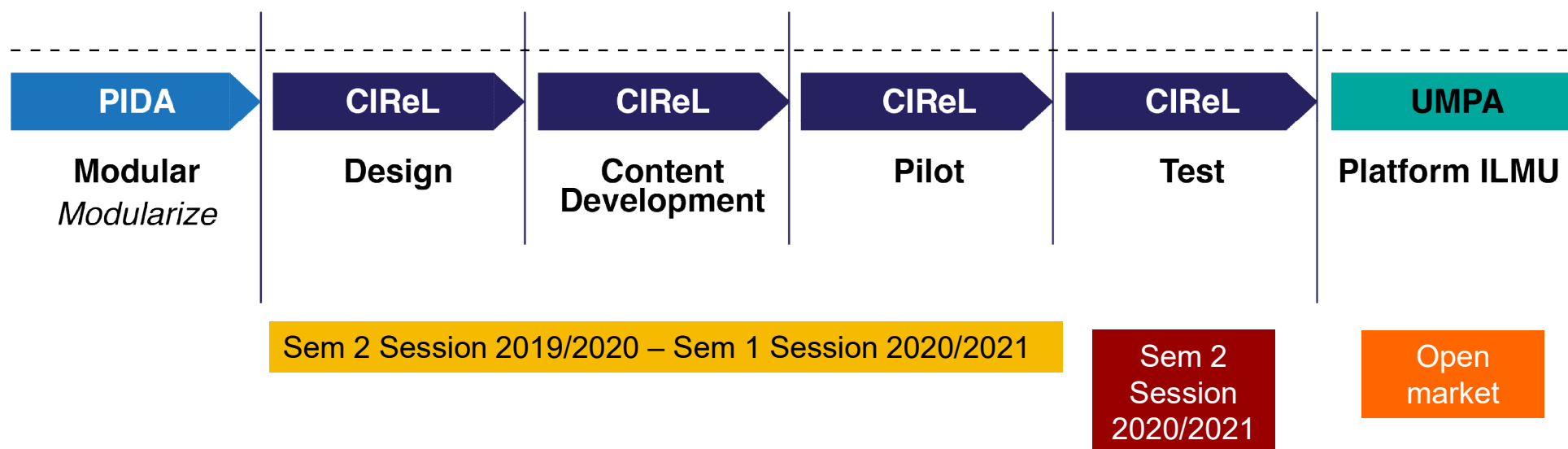
Technical and infrastructure support

UMP Micro-credentials Development

STEP 4 – TEST AND DATA COLLECTION

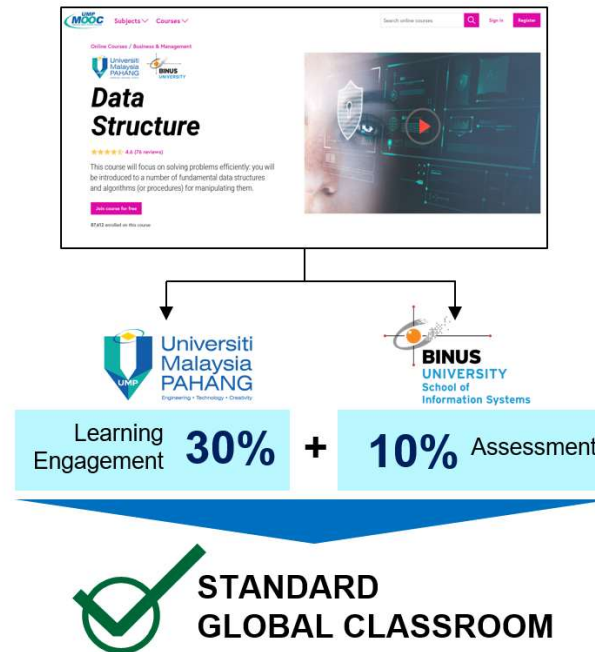
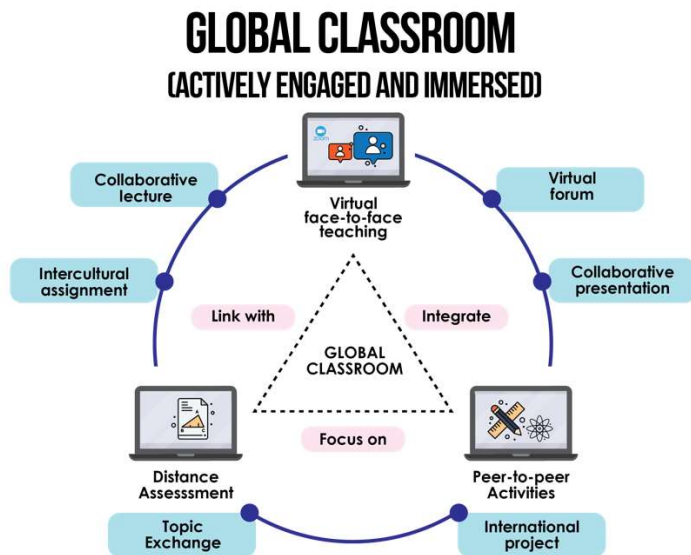
24 Pilot Micro-credentials courses
MICRO-CREDENTIALS TVET ONLINE (MCTO)

April
2021



Opportunities for future collaboration

MICRO-CREDENTIAL GLOBAL CLASSROOM (MCGC)



COMANILTY AND COLLEGIALITY

- Shared courses
- Shared expertise
- Shared facilities
- Shared cultures

Micro-credential common courses amongst ASEM member countries

Mutual Recognition – credit transfer

UMPMOOC

Universiti Malaysia Pahang



ASEM network KMOOC, JMOOC, ThaiMOOC, Philippines MOOC .

