



اوتورسيتي مليسيا قهغ السلطان عبد الله  
UNIVERSITI MALAYSIA PAHANG  
AL-SULTAN ABDULLAH

# Town Hall

## INISIATIF e-PEMBELAJARAN 2024

PUSAT SUMBER PENGAJARAN & e-PEMBELAJARAN (PSPe)



Pengarah PSPe

PM Ts Dr  
Awanis Romli



Tim. Pengarah PSPe

Dr Sureena  
Abdullah



Tim. Pengarah PSPe

Dr Daing Mohamad  
Nafiz Daing Idris



Ketua Teknikal PSPe

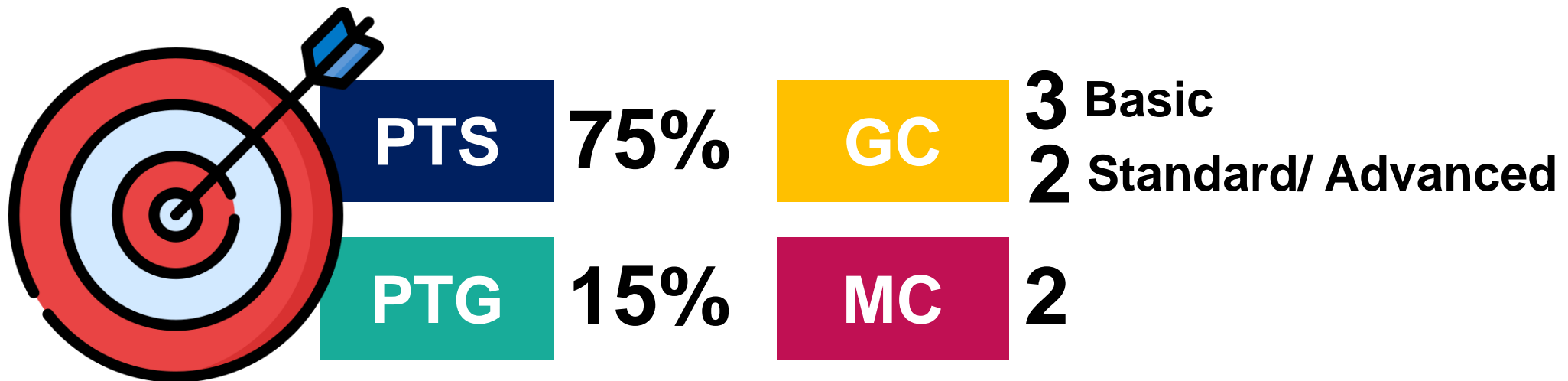
Ts Dr Anis Farihan  
Mat Raffei

# Pembelajaran Teradun & Pembelajaran Teradun Gantian



**PM Ts Dr Awanis Romli**  
Pengarah PSPe

# KPI FAKULTI DAN PUSAT UMPSA 2024



# BLENDED LEARNING

26

Dasar  
e-Pembelajaran  
Negara

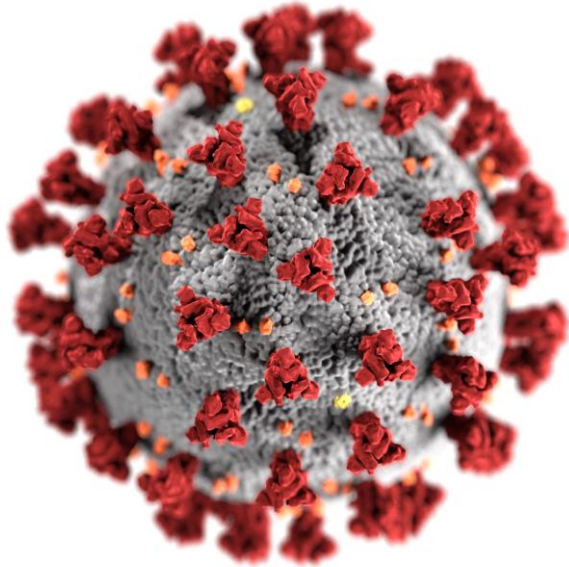
## 2.0

Dalam Fasa 3 (2021-2025), 70% dari semua kursus yang ditawarkan oleh setiap IPT perlu dikendalikan dalam bentuk pembelajaran teradun (*Blended Learning*). Di samping itu, 15% e-Pentaksiran perlu dilaksanakan dalam pembelajaran teradun. Dalam fasa ini juga, sekurang-kurangnya 30 kursus perlu ditawarkan secara terbuka (MOOC) oleh setiap IPT.

Jadual 3. Pedagogi dalam Talian

Domain	Bidang Fokus	Fasa 1 2015	Fasa 2 2016-2020	Fasa 3 2021-2025
Pedagogi Dalam Talian	Pembelajaran Teradun	30% kursus IPT dikendalikan dalam bentuk pembelajaran teradun.	50% kursus IPT dikendalikan dalam bentuk pembelajaran teradun.	70% kursus IPT dikendalikan dalam bentuk pembelajaran teradun.
	Kursus terbuka	Setiap IPT menawarkan sekurang-kurangnya 3 kursus secara terbuka (MOOC)	Setiap IPT menawarkan sekurang-kurangnya 15 kursus secara terbuka (MOOC)	Setiap IPT menawarkan sekurang-kurangnya 30 kursus secara terbuka (MOOC)
	e-Pentaksiran	5% e-Pentaksiran dalam pembelajaran teradun.	10% e-Pentaksiran dalam pembelajaran teradun.	15% e-Pentaksiran dalam pembelajaran teradun.

Dalam Fasa 3 (2021-2025), 70% dari semua kursus yang ditawarkan oleh setiap IPT perlu dikendalikan dalam bentuk pembelajaran teradun (*Blended Learning*). Di samping itu, 15% e-Pentaksiran perlu dilaksanakan dalam pembelajaran teradun.



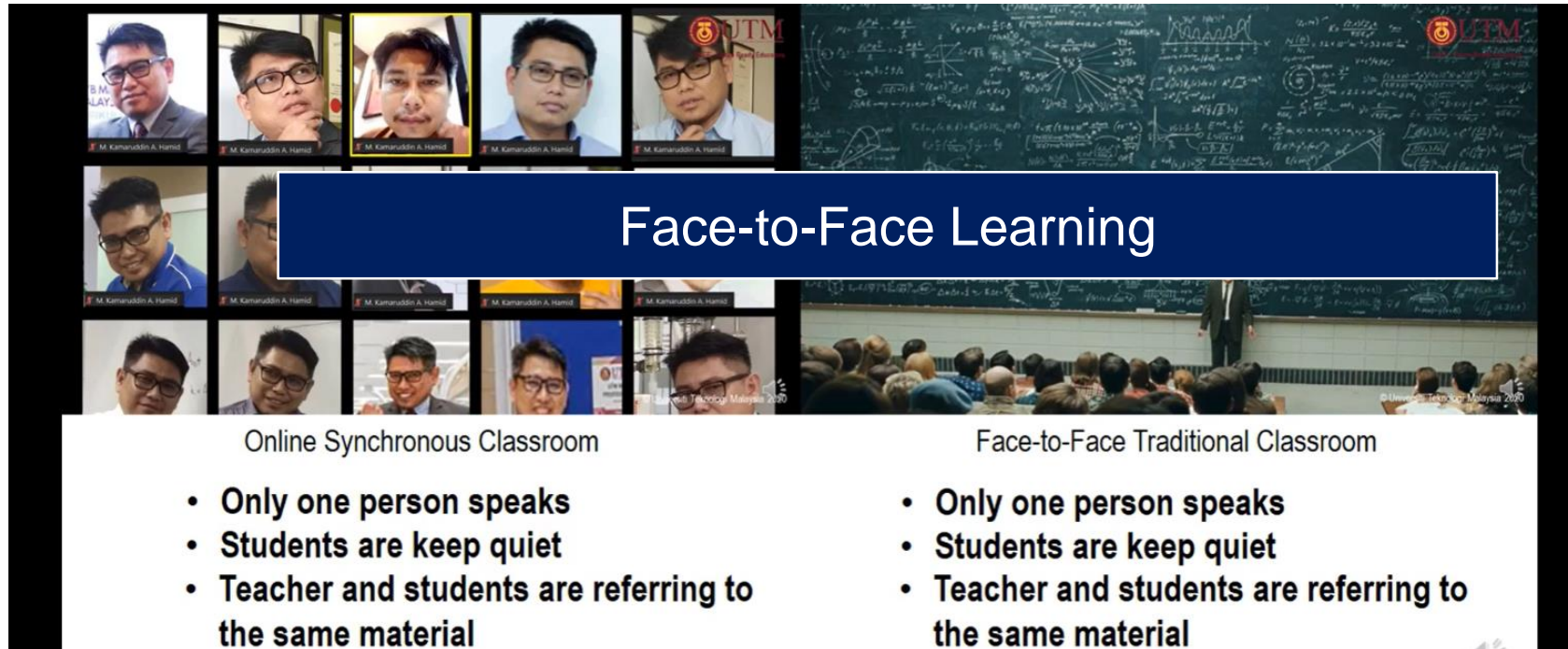
The officially identified pandemic of **COVID-19** is impacting more than 376 million students worldwide.

<https://www.techlearning.com/how-to/what-is-remote-learning>

## Remote/Distance Learning

**Remote/Distance learning** is where the student and the educator, or information source, are not physically present in a traditional classroom environment. Information is relayed through technology, such as discussion boards, video conferencing, and online assessments.

# FACE TO FACE - VIRTUAL/ONLINE



**Face-to-Face Learning**

Online Synchronous Classroom	Face-to-Face Traditional Classroom
<ul style="list-style-type: none"><li>• Only one person speaks</li><li>• Students are keep quiet</li><li>• Teacher and students are referring to the same material</li></ul>	<ul style="list-style-type: none"><li>• Only one person speaks</li><li>• Students are keep quiet</li><li>• Teacher and students are referring to the same material</li></ul>

BLENDED LEARNING?  
SUPPORTIVE BL?  
SUBSTITUTE BL?

Source

1. Introduction to Online Learning

This video discusses the different between online learning and face-to-face learning.

<https://youtu.be/AdXj3Xr7QnET>



## LECTURER

Continuity in Instruction due to absence of lecturer (public holidays, conferences, administrative work, personal matters, etc)

Embracing Education 2.0 in the context of IR 4.0 and the new normal

Embracing Digitalization of UMP and National Education Digitalization



## WHY SUBSTITUTE BLENDED LEARNING



## STUDENT

Continuity in learning progress

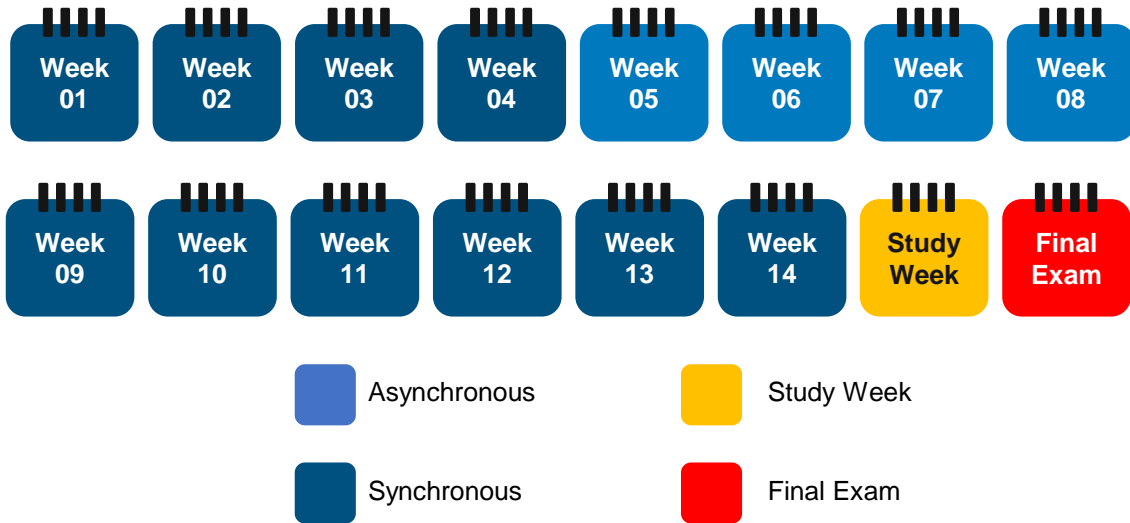
Flexible education- anytime, any place and any how

Develop self-regulated students (autonomous)

Matching learner's learning style with Education 2.0 and IR 4.0 in the new normal

# HOW TO DESIGN SUBSTITUTE BLENDED LEARNING

## Course Structure



## Lesson Plan Structure Example 2 hours class session



# BLENDED LEARNING (SUBSTITUTE vs SUPPORTIVE)

## OPERATIONAL DEFINITION:

### Substitute Blended Learning – SBL (PTG)

SBL is an approach that combines **online learning** and **face-to-face** modes in the range of **30-80%** of the **Student Learning Time (SLT)** based on the formula **40:40:20** with the combination of three main elements which are:



**Learning Material**



**Learning Activity**



**Learning Assessment**



Source

Buku Garis Panduan Pelaksanaan Pembelajaran Teradun Gantian (Pembelajaran Dalam Talian)  
<https://tinyurl.com/SubstituteBlendedLearning>

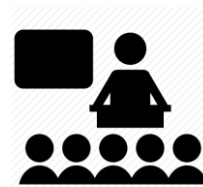
### Supportive Blended Learning – (Pembelajaran Teradun Sokongan - PTS)

Supportive Blended Learning (PTS) is an approach that combines **online learning** and **face-to-face** modes in the range of **30-80%** of the **Student Learning Time** based on formula **1-7-3-2**

1 Course info  
7 Learning material  
3 Learning Activity  
2 Learning Assessment

# SBL BASED ON STUDENT LEARNING TIME (SLT)

 SLT for 3 credit hours **120 hours**



Conventional TnL : 70% x 120 hours =  
**84 hours**



SUBSTITUTE BL : 30% x 120 hours =  
**36 hours**

**FORMULA**  
**40 : 40 : 20**

**NEW**



Lecture



Tutorial



Laboratory



Self Learning



Assessment  
Guided/non guided



Material  
**40%**



Activity  
**40%**



Assessment  
**20%**

# 30% SBL hour & week?



SUBSTITUTE BL : 30% x 120 hours =

**36 hours**



Material

**40 =**

40% X 36 =

**14 hrs**



Activity

**40 =**

40% X 36 =

**14 hrs**



Assessment

**20 =**

20% X 36 =

**8 hrs**

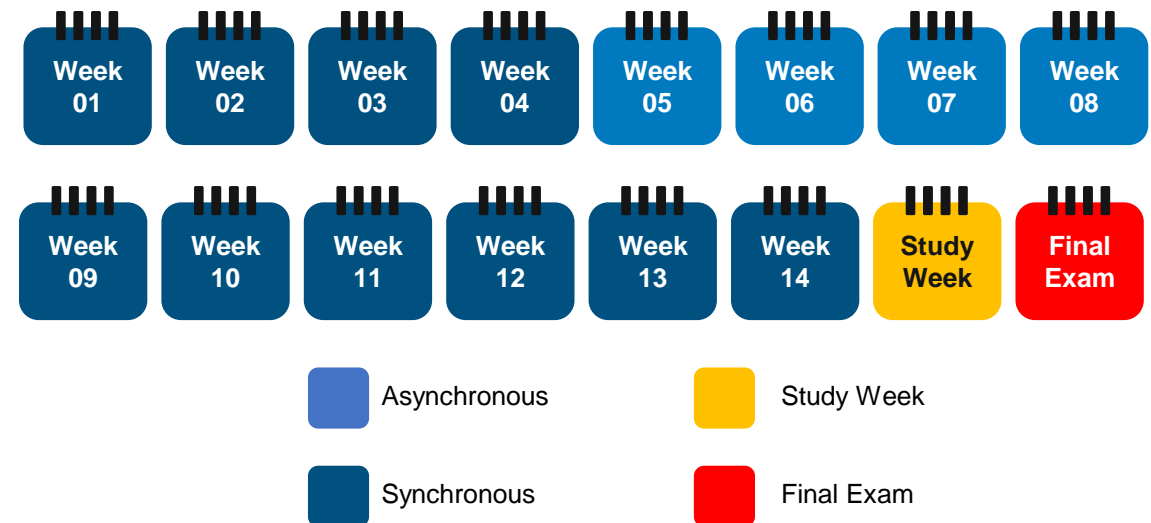
1 semester = 14 weeks (Teaching and Learning)

SBL Hours □ 14 Weeks?

**36 / 120 \* 14 = 4.2 (4 weeks)**



## Course Structure



SBL 4 weeks with **Asynchronous Online Remote Learning**

**30% SBL = 4 weeks**

# Asynchronous Online Remote Learning

30% SBL = 4 weeks



## Material 40% = 14 hours

- Content video developed by SME
- Podcast
- Screencast
- Narrated presentation
- Animation/Web 2.0 tools : powtoon, prezzi etc
- Simulation (VR/AR/MR)
- Interactive content. Example: ThingLink
- Interview video
- Practical/laboratory video
- Industry visit video



## Activity 40% = 14 hours

### Web 2.0 tools:

- Kahoot
- Padlet
- edPuzzle
- Collaborative learning
- Lab tutorial
- Forum, chatting in KALAM









## Assessment 20% = 8 hours

### Online Assessment:

- Quiz
- Assignment
- Hands on Test
- Peer evaluation

# IMPLEMENTATION OF SUBSTITUTE BLENDED LEARNING (SBL)

Weeks	Delivery
1	 Face-to-face physical class – Conventional
2	 Face-to-face online class (Synchronous)
3	 Non-face-to-face (Asynchronous) - <b>SUBSTITUTE</b>
4	 Flexible “ <b>Anytime, Anywhere, Anyway, Anyhow</b> ”
5	 <b>Student’s attendance record</b> is replaced by learning participation and achievement
6	 <b>Learning materials, activities and assessment for SBL need to be documented in KALAM</b>

## FACE-TO-FACE MODE

The face to face contact sessions between the learners and instructor can be conducted in various modalities which may include **physical** or **virtual sessions** (COPPA:ODL)

**Flexible** with any changes or disruption in T&L



**Self Directed Learning** with interactive learning instruction

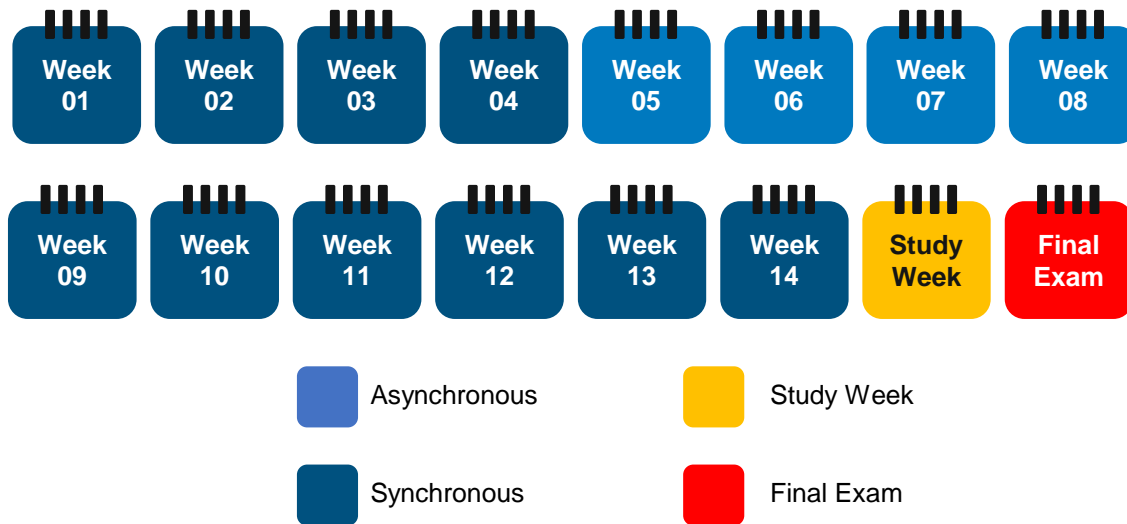


**Student’s attendance record** is replaced by learning participation and achievement



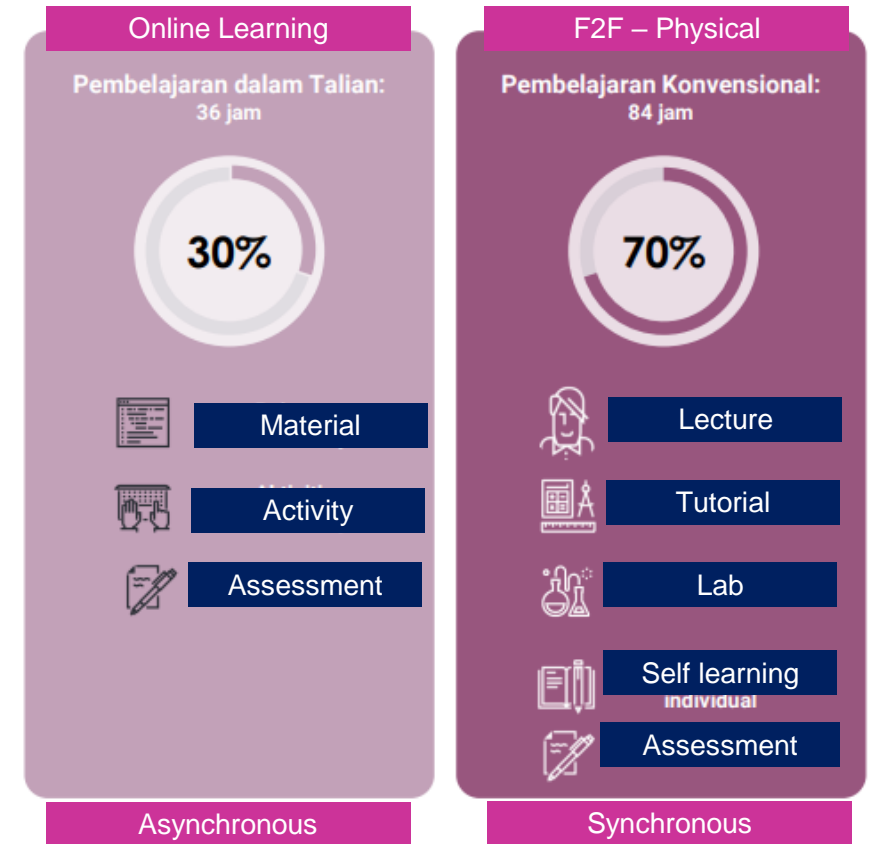
# UMPSA's SBL IMPLEMENTATION- 30% SBL

## Course Structure



Substitute 4 weeks with Asynchronous Online Remote Learning  
30% SBL = 4 weeks

### In the context of Hybrid Learning (Physical + Online)



### In the context of Online Remote Learning

# Implementation of 30% Online Learning and 70% Physical in Hybrid Learning



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## Online Learning



Material  
40% = 14 hours



Weeks:  
5, 6, 7, 8



Content Video (SME) = 6 hours



Practical/laboratory video = 4 hours



Collaborative learning = 4 hours



Activity  
40% = 14 hours



Weeks:  
5, 6, 7, 8



Lab tutorial = 8 hours



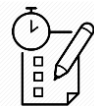
Collaborative learning = 6 hours



Assessment  
20% = 8 hours



Weeks:  
5, 6, 7, 8



Assignment = 8 hours (preparation time)

**Total SLT 30% = 36 hours**

F2F – Physical



Lecture



Tutorial



Lab



Self learning



Assessment

Weeks: 1, 2, 3, 4, 9, 10,  
11, 12, 13, 14

# SBL simulation for 2 credit hours (80 SLT)

Elements on Online Learning	Weightage	SBL 30%	
		Total SLT	
Material	40%	9.6 = 9	9.6 = 10
Activity	40%	9.6 = 9	9.6 = 10
Assessment	20%	4.8 = 6	4.8 = 4
<b>Total hours for SBL</b>		<b>24</b> (4 weeks)	
<b>Total hours for F2F</b>		<b>56</b> (10 weeks)	

## SUBSTITUTE Blended Learning (Individual) - 2 Credit Hours Courses

Staff:	0550 - AWANIS BINTI ROMLI
Faculty:	FAKULTI KOMPUTERAN
Semester code:	21222
No. of courses assigned to teach:	1
No. of courses achieved PTG:	0
No. of <b>2 Credit Hours</b> courses achieved PTG:	0
Date of report:	07-MAR-2022

## List of 2 credit hours courses

10 records per page Search:

Course Code	Course Name	Coordinator	Lecturers	No. of Student	Course Info	Learning Material (9 Hours)	Online Activities (9 Hours)	Online Assessment (6 Hours)	Overall Total (24 Hours)	Status
No data available in table										

# SBL simulation for 3 credit hours (120 SLT)

Elements on Online Learning	Weightage	SBL 30%
		Total SLT
Material	40%	14
Activity	40%	14
Assessment	20%	8
<b>Total hours for SBL</b>		<b>36</b> (4 weeks)
<b>Total hours for F2F</b>		<b>84</b> (10 weeks)

SUBSTITUTE Blended Learning (Individual) - 3 Credit Hours Courses

Staff:	0550 - AWANIS BINTI ROMLI
Faculty:	FAKULTI KOMPUTERAN
Semester code:	21222
No. of courses assigned to teach:	1
No. of courses achieved PTG:	0
No. of <b>3 Credit Hours</b> courses achieved PTG:	0
Date of report:	08-MAR-2022

List of 3 credit hours courses

10  records per page Search:

Course Code	Course Name	Coordinator	Lecturers	No. of Student	Course Info	Learning Material (14 Hours)	Online Activities (14 Hours)	Online Assessment (8 Hours)	Overall Total (36 Hours)	Status
BCI1143	PROBLEM SOLVING	AWANIS BINTI ROMLI	AWANIS BINTI	7	Yes	0.00	0.00	0.00	0.00	Not Achieve

# SBL simulation for 4 credit hours (160 SLT)

Elements on Online Learning	Weightage	SBL 30%
		Total SLT
Material	40%	19
Activity	40%	19
Assessment	20%	10
<b>Total hours for SBL</b>		<b>48</b> (4 weeks)
<b>Total hours for Conventional</b>		<b>112</b> (10 weeks)

Staff:	0550 - AWANIS BINTI ROMLI
Faculty:	FAKULTI KOMPUTERAN
Semester code:	21222
No. of courses assigned to teach:	1
No. of courses achieved PTG:	0
No. of <b>4 Credit Hours</b> courses achieved PTG:	0
Date of report:	07-MAR-2022

List of 4 credit hours courses

10 records per page Search:

Course Code	Course Name	Coordinator	Lecturers	No. of Student	Course Info	Learning Material (19 Hours)	Online Activities (19 Hours)	Online Assessment (10 Hours)	Overall Total (48 Hours)	Status
No data available in table										

# SBL Declaration through KALAM



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Universiti  
Malaysia  
PAHANG  
Engineering • Technology • Creativity



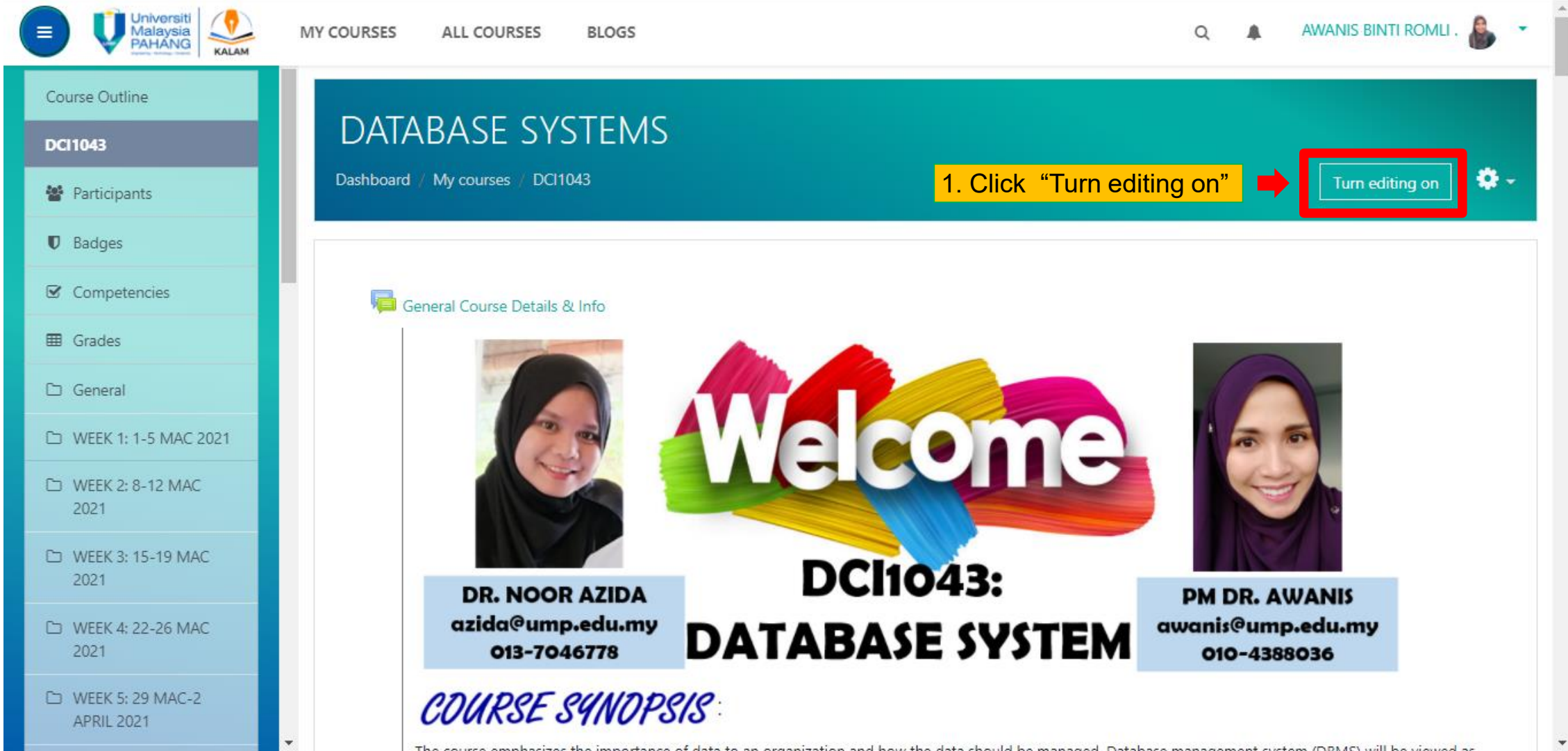
Remember username

Log in

Forgotten your username or password?

Cookies must be enabled in your browser ?

# SBL Declaration for Learning Material (LM)



Course Outline

**DCI1043**

Participants

Badges

Competencies

Grades

General

WEEK 1: 1-5 MAC 2021

WEEK 2: 8-12 MAC 2021

WEEK 3: 15-19 MAC 2021

WEEK 4: 22-26 MAC 2021

WEEK 5: 29 MAC-2 APRIL 2021

MY COURSES ALL COURSES BLOGS

AWANIS BINTI ROMLI

1. Click "Turn editing on" → Turn editing on

General Course Details & Info

**Welcome**

**DCI1043:  
DATABASE SYSTEM**

**DR. NOOR AZIDA**  
azida@ump.edu.my  
013-7046778

**PM DR. AWANIS**  
awanis@ump.edu.my  
010-4388036

*COURSE SYNOPSIS:*

The course emphasizes the importance of data to an organization and how the data should be managed. Database management system (DBMS) will be viewed as



Course Outline

DCI1043

Participants

Badges

Competencies

Grades

General

WEEK 1: 1-5 MAC 2021

WEEK 2: 8-12 MAC  
2021

WEEK 3: 15-19 MAC  
2021

WEEK 4: 22-26 MAC  
2021

## SOFTWARE NEEDED:

- MySQL Server (32/64bit)- [can be download here](#)
- Guide to Install MySQL Server (from the developer) - [can be read here](#)
- Step by Step Guidelines (from your lecturer) - [can be read here](#)
- Step by Step Video Guidelines (from youtube) -



## REFERENCES LIST:

- Database systems: design, implementation, and management / Carlos Coronel, Steven Morris, Peter Rob -[ebook here](#)
- Fundamentals of Database Systems /Ramez Elmasri, Shamkant B. Navathe -[ebook here](#)

2. Click "Add an activity or resources"



+ Add an activity or resource

MY COURSE

AWANIS BINTI ROMLI

### Add an activity or resource

Search

All Activities Resources

3. Select the activity or resource for example, "File"

Assignment	Attendance	File	Folder	Custom certificate	Database
Fair Allocation	Feedback	Forum	Glossary	Group self-selection	IMS content package
Quiz	Reengagement	SCORM package	Survey	Label	Lesson
				Page	
				Wiki	

https://kalam.ump.edu.my/course/mod.php?id=560&add=feedback&section=0&sr=0

+ Add an activity or resource

Edit



DCI1043

Participants

Badges

Competencies

Grades

General

WEEK 1: 1-5 MAC 2021

WEEK 2: 8-12 MAC 2021

WEEK 3: 15-19 MAC 2021

WEEK 4: 22-26 MAC 2021

WEEK 5: 29 MAC-2 APRIL 2021

WEEK 6: 5-9 APRIL 2021

# DATABASE SYSTEMS

Dashboard / My courses / DCI1043 / WEEK 2: 8-12 MAC 2021 / Adding a new File to WEEK 2: 8-12 MAC 2021



## Adding a new File to WEEK 2: 8-12 MAC 2021

### General

Name

[LM][02] Slide For Presentation

Description



Path: p

Display description on course page

Select files

Maximum size for new files: 250MB



4. Create declaration of the PTG. For example [LM][02] which [LM] indicate Learning Material and [02] indicate time which is 2Hour and followed by **material name**

[LM][02] Chapter 2

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MY COURSES ALL COURSES BLOGS

AWANIS BINTI ROMLI .

Course Outline

**DCI1043**

Participants

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Competencies

Grades

General

WEEK 1: 1-5 MAC 2021

WEEK 2: 8-12 MAC 2021

WEEK 3: 15-19 MAC 2021

WEEK 4: 22-26 MAC 2021

WEEK 5: 29 MAC-2 APRIL 2021

CHAPTER 1: INTRODUCTION TO DATABASE  
1.5MB Powerpoint 2007 presentation Uploaded 24/02/21, 14:59

LINK VIDEO

WEEK 2: 8-12 MAC 2021

**DATABASE ENVIRONMENT**

CHAPTER 2: DATA ENVIRONMENT  
3.9MB Powerpoint 2007 presentation Uploaded 24/02/21, 15:06

LAB EXERCISE W2: BEGINNER STEP TO MYSQL  
1.6MB PDF document Uploaded 24/02/21, 15:12

LINK VIDEO

MINI PROJECT

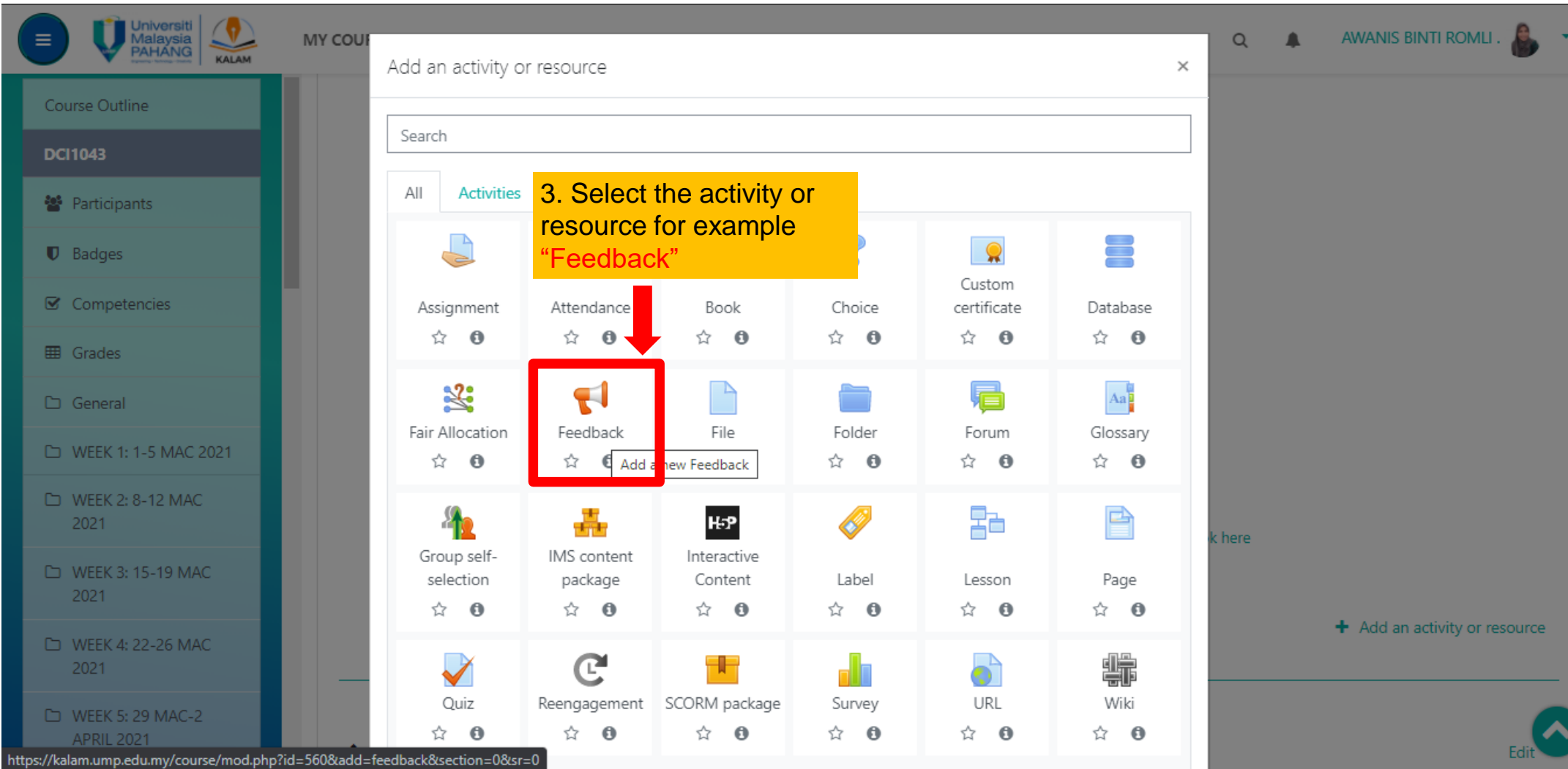
**QUIZ 1**

[LM][02] Slide For Presentation  
4.2MB Powerpoint 2007 presentation Uploaded 25/02/21, 12:10

[LM][02] Chapter 2

5. It will display as been created.

# SBL Declaration for Learning Activity (LA)



Course Outline

DCI1043

Participants

Badges

Competencies

Grades

General

WEEK 1: 1-5 MAC 2021

WEEK 2: 8-12 MAC 2021

WEEK 3: 15-19 MAC 2021

WEEK 4: 22-26 MAC 2021

WEEK 5: 29 MAC-2 APRIL 2021

3. Select the activity or resource for example "Feedback"

Assignment

Attendance

Book

Choice

Custom certificate

Database

Fair Allocation

Feedback

File

Folder

Forum

Glossary

Group self-selection

IMS content package

Interactive Content

Label

Lesson

Page

Quiz

Reengagement

SCORM package

Survey

URL

Wiki

AWANIS BINTI ROMLI

+

Add an activity or resource

Edit

<https://kalam.ump.edu.my/course/mod.php?id=560&add=feedback&section=0&sr=0>

DCI1043

Participants

Badges

Competencies

Grades

General

WEEK 1: 1-5 MAC 2021

WEEK 2: 8-12 MAC 2021

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WEEK 4: 22-26 MAC 2021

WEEK 5: 29 MAC-2 APRIL 2021

WEEK 6: 5-9 APRIL 2021

MY COURSES ALL COURSES BLOGS

AWANIS BINTI ROMLI

# DATABASE SYSTEMS

Dashboard / My courses / DCI1043 / General / Adding a new Feedback

## Adding a new Feedback

General

Name [LA][01] Forum for Activity 1

Description

Paragraph B I [List Icons] [Link Icon] [Image Icon] [File Icon]

Path: p

Display description on course page

4. Create declaration of the PTG. For example **[LA][01]** which [LA] indicate Learning Activity and [01] indicate time which is 1Hour and followed by **Activity name**.

**[LA][01] Forum Activity 1**

MY COURSES ALL COURSES BLOGS

AWANIS BINTI ROMLI

Course Outline

**DCI1043**

Participants

Badges

Competencies

Grades

General

WEEK 1: 1-5 MAC 2021

WEEK 2: 8-12 MAC 2021

WEEK 3: 15-19 MAC 2021

WEEK 4: 22-26 MAC 2021


WEEK 5: 29 MAC-2 APRIL 2021

If you need to discuss a course-related subject with any of the lectures. Please make an appointment through email to ask about their availability and set an appointment. Below are the details of all the lecturer for DCI1043:

- Dr Noor Azida: azida@ump.edu.my
- Dr Awanis : awanis@ump.edu.my

**SOFTWARE NEEDED:**

- MySQL Server (32/64bit)- [can be download here](#)
- Guide to Install MySQL Server (from the developer) - [can be read here](#)
- Step by Step Guidelines (from your lecturer) - [can be read here](#)
- Step by Step Video Guidelines (from youtube) -



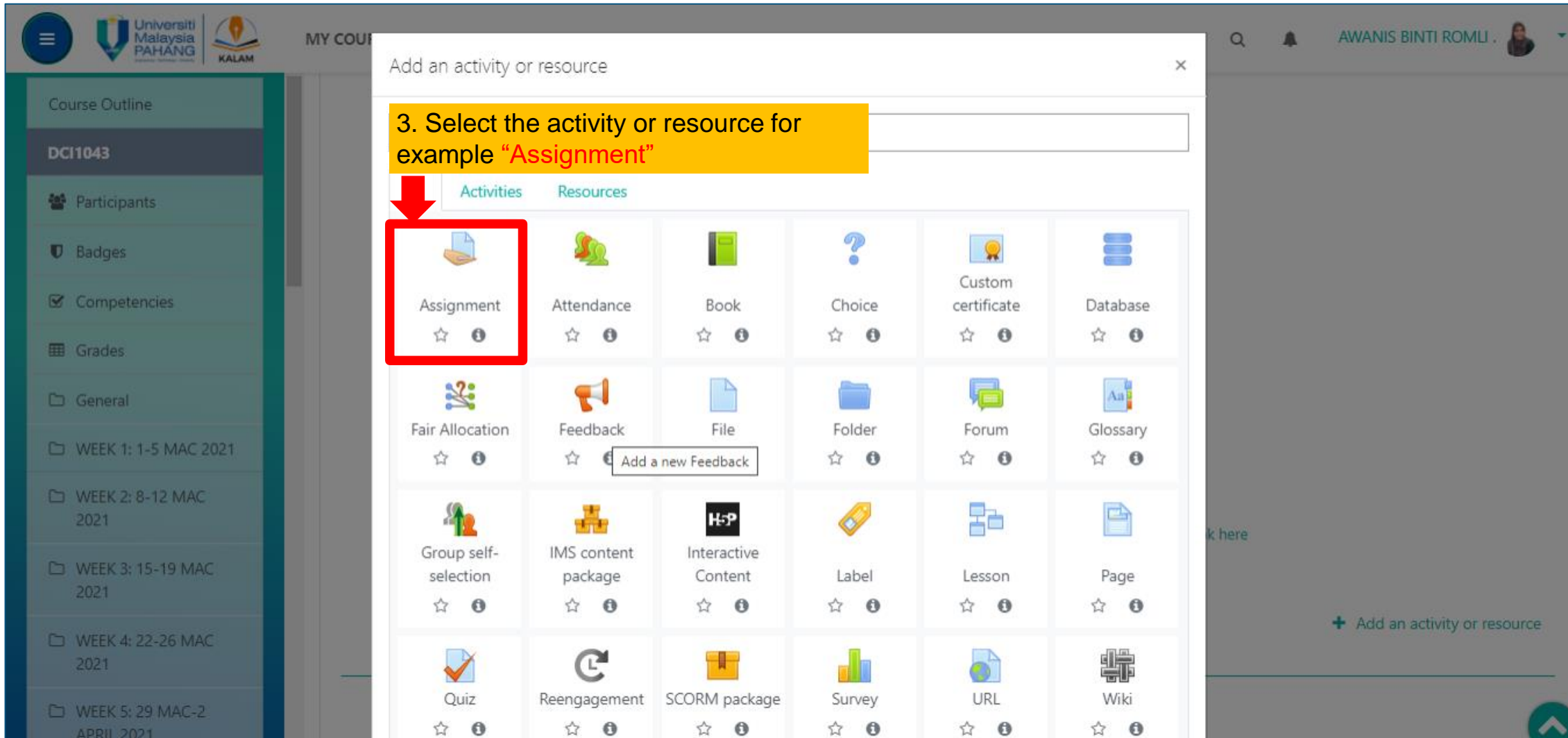
**REFERENCES LIST:**

- Database systems: design, implementation, and management / Carlos Coronel, Steven Morris, Peter Rob -[ebook here](#)
- Fundamentals of Database Systems /Ramez Elmasri, Shamkant B. Navathe -[ebook here](#)

[LA][01] Forum for Activity 1

5. It will display as created.

# SBL Declaration for Learning Assessment (LS)



























MY COURSE

AWANIS BINTI ROMLI

Add an activity or resource

3. Select the activity or resource for example "Assignment"

Activities Resources

 Assignment ☆ ⓘ	 Attendance ☆ ⓘ	 Book ☆ ⓘ	 Choice ☆ ⓘ	 Custom certificate ☆ ⓘ	 Database ☆ ⓘ
 Fair Allocation ☆ ⓘ	 Feedback ☆ ⓘ Add a new Feedback	 File ☆ ⓘ	 Folder ☆ ⓘ	 Forum ☆ ⓘ	 Glossary ☆ ⓘ
 Group self-selection ☆ ⓘ	 IMS content package ☆ ⓘ	 Interactive Content ☆ ⓘ	 Label ☆ ⓘ	 Lesson ☆ ⓘ	 Page ☆ ⓘ
 Quiz ☆ ⓘ	 Reengagement ☆ ⓘ	 SCORM package ☆ ⓘ	 Survey ☆ ⓘ	 URL ☆ ⓘ	 Wiki ☆ ⓘ

+ Add an activity or resource

Universiti Malaysia PAHANG KALAM MY COURSES ALL COURSES BLOGS AWANIS BINTI ROMLI .

# DATABASE SYSTEMS

Dashboard / My courses / DCI1043 / WEEK 2: 8-12 MAC 2021 / Adding a new Assignment to WEEK 2: 8-12 MAC 2021

## Adding a new Assignment to WEEK 2: 8-12 MAC 2021

**General**

Assignment name **[LS][03] Assignment Week 2**

Description

Path: p




Display description on course page

4. Create declaration of the PTG. For example **[LS][03]** which [LS] indicate Learning Assessment and [03] indicate time which is 3Hour and followed by **assignment name**




**[LS][03] Assignment Week 2**

# SBL Declaration Method in KALAM










**[LS] - Declaration for Learning Assessment**  
[01] - Declaration for time

-  [LS][01] Quiz on Topic 2
-  [LS][02] Assignment on Topic 2
-  [LA][03] Forum on How to become C++ Programmer

**[LA] - Declaration for Learning Activity**  
[01] - Declaration for time

-  [LA][01] Forum #3
-  [LA][03] Chat on How to Program a code in C++
-  [LS][02] Assignment #4

**[LM] - Declaration for Learning Material**  
[03] - Declaration for time

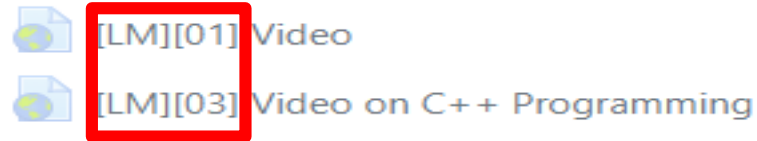
-  [LM][01] Video
-  [LM][03] Video on C++ Programming
-  [LA][03] Chat on How to be C++ Programmer
-  [LS][03] Assignment Topic 5
-  [LM][02] Video C++ Section 5
-  [LM][03] Video C++ For Beginner
-  [LM][04] Step in C++
-  [LM][02] C++ for Intermediate
-  [LA][04] Forum on how to be expert programmer in c++

Note:

For the SBL purpose – Learning material, learning activity and learning assessment in the KALAM need to be declared as [LA], [LM], and [LS] and followed by the time spent for each element.

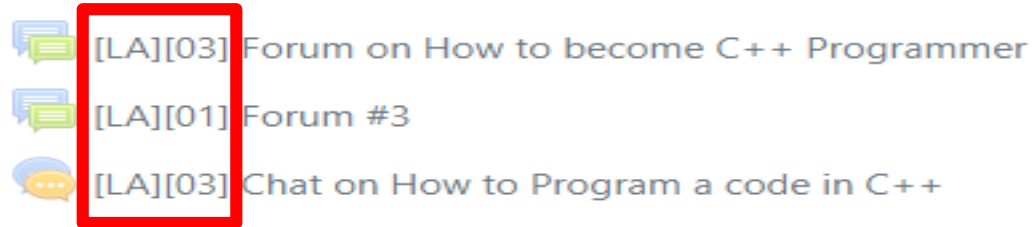
# SBL Calculation in KALAM

- Learning Material [LM] – Lecturer needs to key in code and hour. Example: [LM] [02]



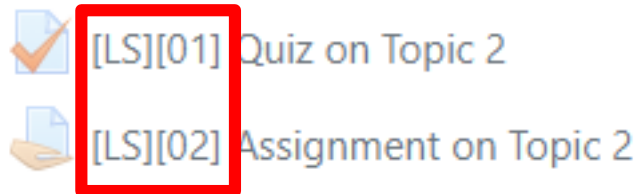
Total LM = 01+03  
 = 04 hours

- Learning Activities [LA] - Lecturer needs to key in code and hour. Example: [LA] [01]



Total LA = 03+01+03  
 = 07 hours

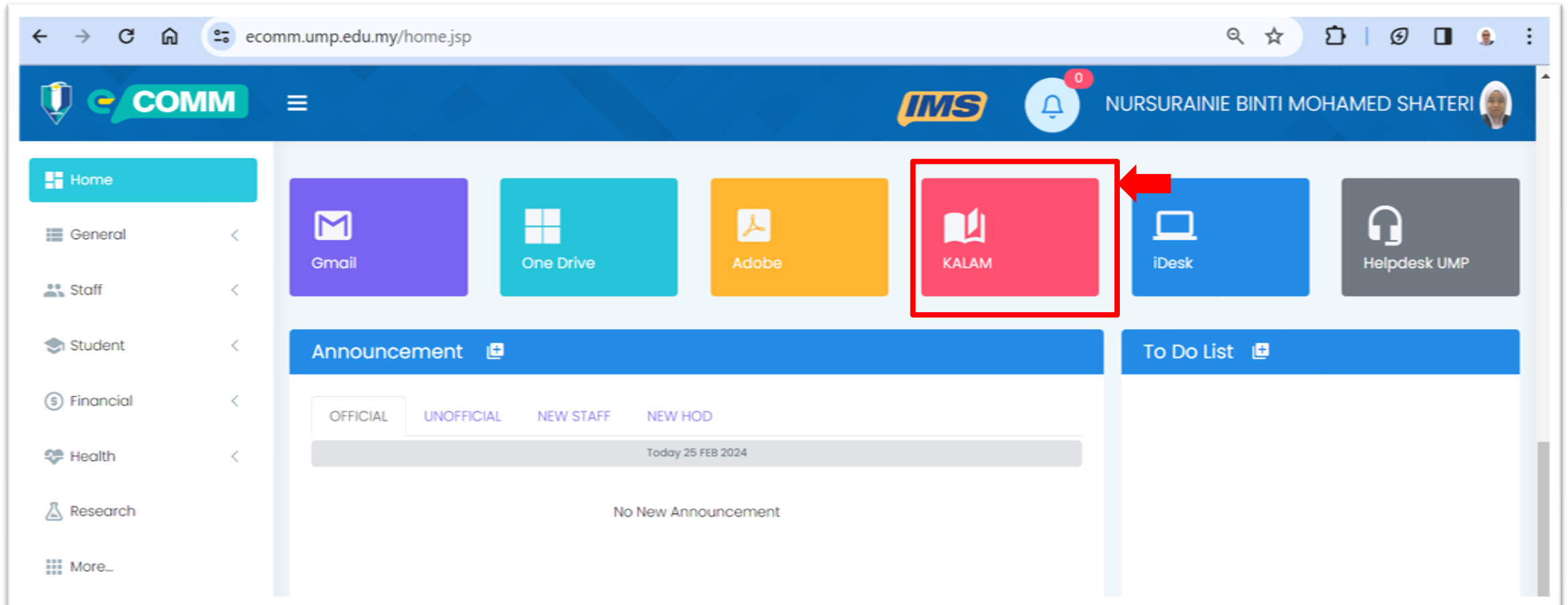
- Learning Assessment [LS] - Lecturer needs to key in code and hour. Example: [LS] [01]



Total LS = 01+02  
 = 03 jam

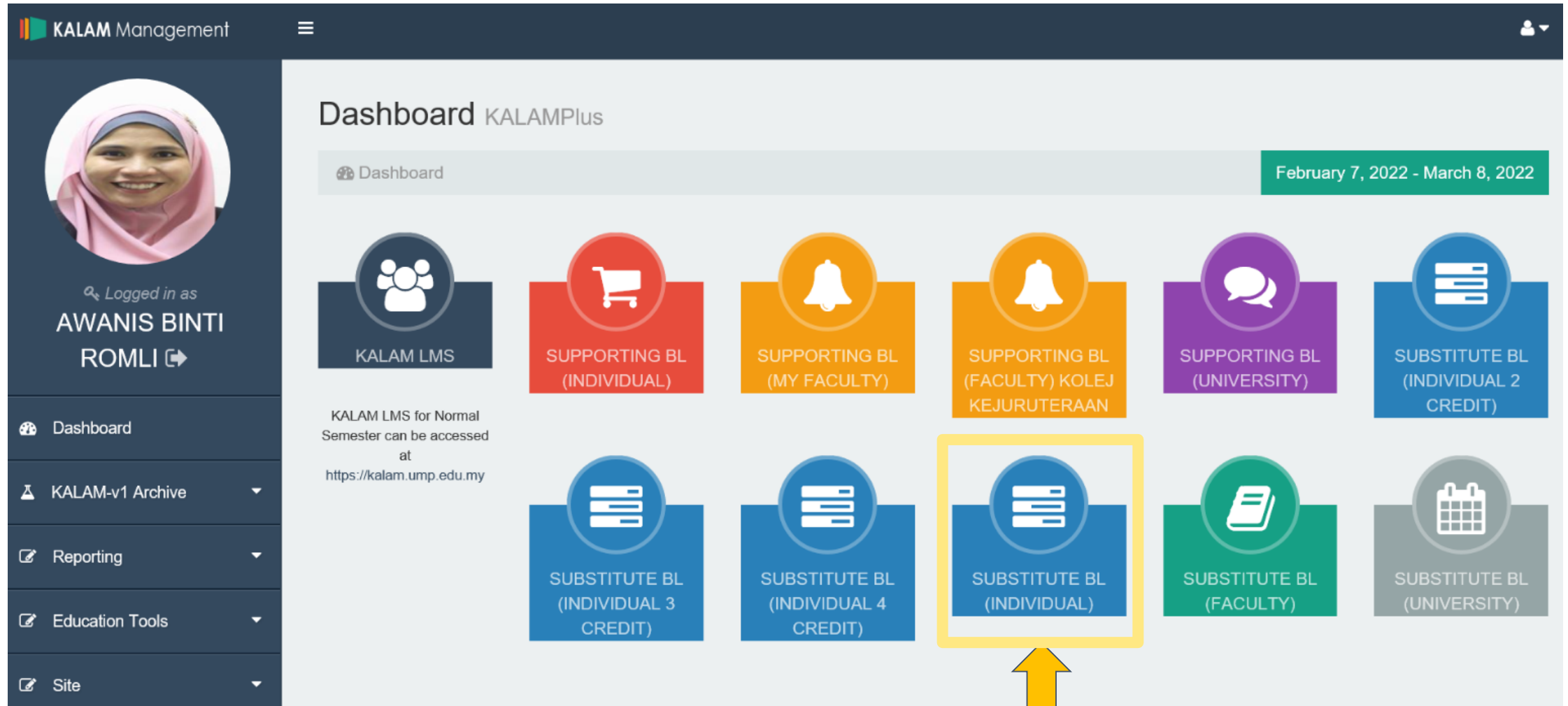
# SBL Reporting in KALAM

Login to e-comm.



The screenshot shows the e-comm.ump.edu.my/home.jsp dashboard. The browser address bar displays the URL. The top navigation bar includes the e-COMM logo, a menu icon, the IMS logo, a notification bell with a red '0' badge, and the user's name 'NURSURAINIE BINTI MOHAMED SHATERI' next to a profile picture. The main dashboard area features a row of service tiles: Gmail (purple), One Drive (teal), Adobe (orange), KALAM (pink, highlighted with a red box and a red arrow), iDesk (blue), and Helpdesk UMP (grey). Below this row are two blue headers: 'Announcement' and 'To Do List'. The 'Announcement' section has tabs for 'OFFICIAL', 'UNOFFICIAL', 'NEW STAFF', and 'NEW HOD', with a date filter set to 'Today 25 FEB 2024'. The content below shows 'No New Announcement'.

# KALAM Dashboard - Click SUBSTITUTE BL Individual



The screenshot shows the KALAM Management dashboard interface. On the left is a dark sidebar with the user's profile and navigation menu. The main area is titled 'Dashboard KALAMPlus' and shows a date range of 'February 7, 2022 - March 8, 2022'. A grid of ten colored tiles represents different BL categories. The tile for 'SUBSTITUTE BL (INDIVIDUAL)' is highlighted with a yellow border and a yellow arrow pointing to it from below.

**KALAM Management** ☰ 👤

**Dashboard KALAMPlus** 🌐 Dashboard February 7, 2022 - March 8, 2022

**Logged in as AWANIS BINTI ROMLI** 👉

- Dashboard
- KALAM-v1 Archive
- Reporting
- Education Tools
- Site

**KALAM LMS**  
KALAM LMS for Normal Semester can be accessed at <https://kalam.ump.edu.my>

Category	Color	Icon
SUPPORTING BL (INDIVIDUAL)	Red	Shopping cart
SUPPORTING BL (MY FACULTY)	Orange	Bell
SUPPORTING BL (FACULTY) KOLEJ KEJURUTERAAN	Orange	Bell
SUPPORTING BL (UNIVERSITY)	Purple	Speech bubbles
SUBSTITUTE BL (INDIVIDUAL 2 CREDIT)	Blue	Stack of books
SUBSTITUTE BL (INDIVIDUAL 3 CREDIT)	Blue	Stack of books
SUBSTITUTE BL (INDIVIDUAL 4 CREDIT)	Blue	Stack of books
SUBSTITUTE BL (INDIVIDUAL)	Blue	Stack of books
SUBSTITUTE BL (FACULTY)	Green	Book
SUBSTITUTE BL (UNIVERSITY)	Grey	Calendar

# Example of reporting & calculation SBL

List of 3 credit hours courses

10 records per page

Label colour will turn to blue colour as the total hours [LM]  $\geq 14$ h, [LA]  $\geq 14$ h and [LS]  $\geq 8$ h

Course Code	Course Name	Coordinator	Lecturers	No. of Student	Course Info	Learning Material (14 Hours)	Online Activities (14 Hours)	Online Assessment (8 Hours)	Overall Total (36 Hours)	Status
BCI1143	PROBLEM SOLVING	AWANIS BINTI ROMLI	AWANIS BINTI ROMLI	7	Yes	6.00	0.00	8.00	14.00	Not Achieve
				3						

Status will change to "Achieved" as the overall total achieved  $\geq 36$  hours

# Open & Distance Learning (ODL) & **Micro-Credentials (MC)**



**Dr Sureena Abdullah**  
Timbalan Pengarah PSPe

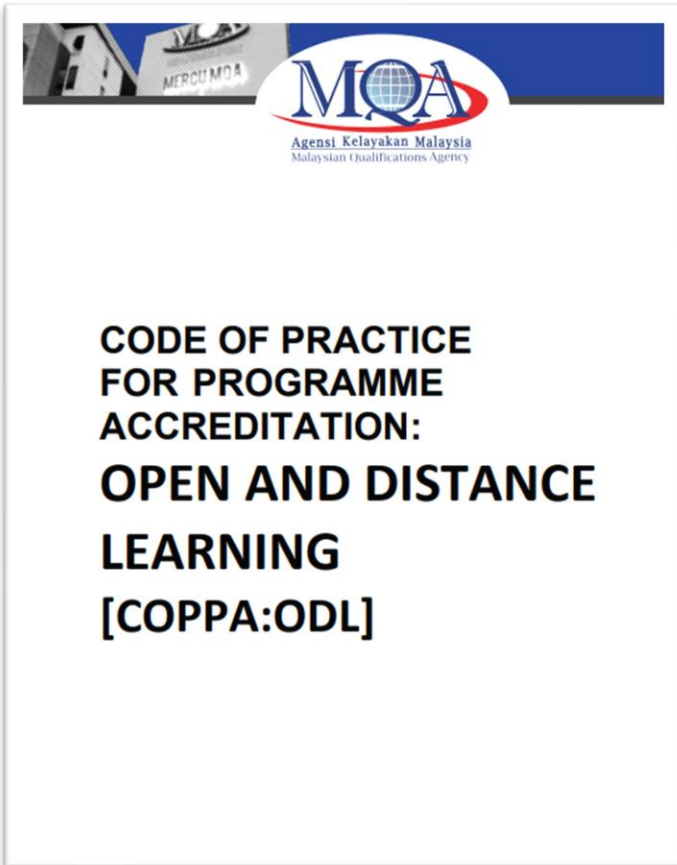


**Dr Daing Mohamad Nafiz Daing Idris**  
Timbalan Pengarah PSPe

# Open Distance Learning (ODL)

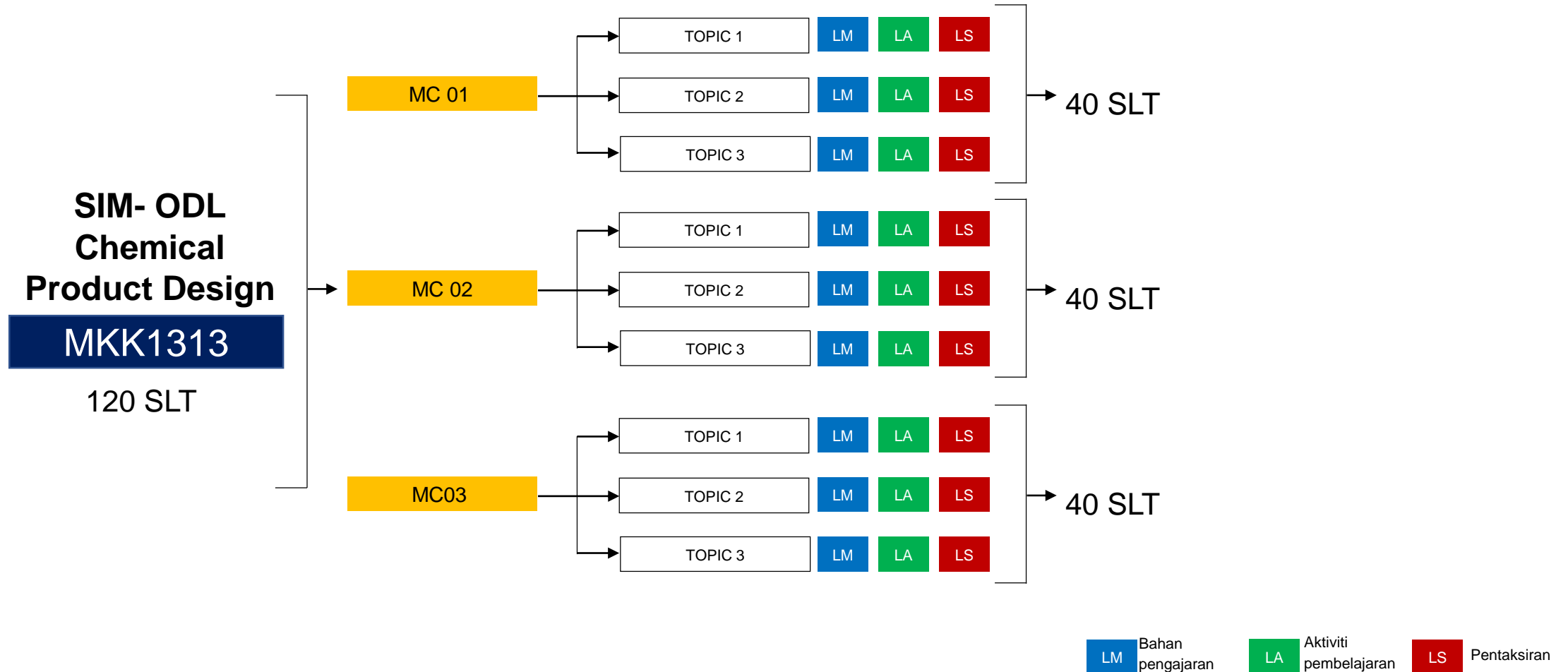
## SCOPE OF THE CODE OF PRACTICE FOR PROGRAMME ACCREDITATION-OPEN AND DISTANCE LEARNING

A programme of study is deemed as an ODL programme if **more than 60% of the courses** offered in the programme are conducted via open and distance learning. In order for a course to be considered as an ODL course, **at least 80%<sup>1</sup> of the student learning time (SLT)** must be delivered via open and distance mode. This must be supported through regular and substantive interaction between the learner and the instructor synchronously or asynchronously via an electronic learning platform, the provision of self-instructional learning materials and other learning support services. The face to face contact sessions between the learner and instructor can be conducted in various modalities which may include physical or virtual sessions.



ODL course, at least **80% of the student learning time (SLT)** must be delivered via open and distance mode.

# Pelaksanaan SIM ODL



# Cadangan Garis Masa SIM -ODL

AKTIVITI	GARIS MASA
Bengkel kerangka ODL UMPASA dan UMPA - Pemilihan 5 kursus rintis SIM bagi setiap program sasar ODL di setiap fakulti	16 Jan 2024
- Webinar pengenalan pembangunan SIM ODL	14 Feb 2024
- Bengkel Pembangunan Pelan Pengajaran Program ODL	22 Feb 2024
- Proses Vetting di peringkat JAF dan MF di fakulti	10 April 2024
- Pembangunan bahan kandungan SIM ODL	April – Julai 2024
- Bengkel Pembangunan Kandungan SIM ODL	17 April 2024
Bengkel Perkongsian dan semakan SIM (Fakulti - PSPe) - Bengkel perkongsian bahan SIM ODL bersama pembangun SIM - Bengkel Semakan SIM bersama PSPe	15 Mei 2024
- Penambahbaikan Pembangunan SIM ODL	16 Mei – 20 Julai 2024
Perkongsian dan semakan SIM (Fakulti - PSPe) - Bengkel perkongsian bahan SIM ODL bersama pembangun SIM - Bengkel Semakan SIM bersama PSPe	25 Julai 2024
- Semakan sendiri bahan kandungan digital SIM ODL (SME)	1 Ogos – 9 Ogos 2024
- Penilaian SIM ODL oleh SME/TDA	12 Ogos – 19 Ogos 2024
- SIM lengkap untuk dimuatnaik ke pelantar ODL	31 Ogos 2024



CPD

UNIVERSITI MALAYSIA PAHANG  
AL-SULTAN ABDULLAH

*Webinar*  
**Best Practices in  
Developing Self-Instructional  
Material (SIM) and Portal  
for ODL Programme**

**14<sup>th</sup> FEB**  
Wednesday 2024  
10:00am - 12:00pm



LIVE  
zoom

Meeting ID : 964 1221 0355  
Passcode : 473503

Prof Madya Ts. Dr.  
**Irwan Mahazir Bin Ismail**  
Pusat Pengajian Pendidikan, College Of Arts And Sciences  
Universiti Utara Malaysia

Organized by CIREL, in collaboration  
with Human Resource Development (HRD),  
Registry Department




UNIVERSITI MALAYSIA PAHANG  
AL-SULTAN ABDULLAH

**22 FEB**  
- 2024 -

Prof. Madya Ts.  
Dr. Irwan Mahazir Ismail  
Universiti Utara Malaysia

*Training*  
**OPEN DISTANCE LEARNING (ODL)  
TEACHING PLAN DESIGN**

Dewan Banquet Canseleri, UMPSA Kampus Gambang  
9:00 Pagi - 5:00 Petang

Tentatif

Masa	Perkara
08:30 pg - 09:00 pg	: Pendaftaran & sarapan
09:00 pg - 11:00 pg	: Bahagian 1: Overview SIM & Table 2,3 & 4
11:00 pg - 01:00 ptg	: Bahagian 2: Pemetaan Table 4 dan Perkongsian Peserta
01:00 ptg - 02:15 ptg	: Rehat & Makan Tengahari
02:30 ptg - 05:00 ptg	: Bahagian 3 : Pembangunan SIM dan Perkongsian Peserta

Organized by CIREL, in collaboration  
with Human Resource Development (HRD),  
Registry Department



**KALAM**

**TINTA**

**MyCredentials**

**ULearn**  
Open Learning

# Definisi Micro-Credentials & Stand-Alone Micro-Credentials

Micro-Credentials UMPSA secara amnya ialah suatu modul pembelajaran yang bertujuan untuk mengiktiraf peningkatan kepakaran dan kompetensi spesifik individu terutamanya untuk meningkatkan kemahiran spesifik dalam tempoh yang singkat dan menutup jurang kemahiran (skills gap) dan kebanyakannya diakses menerusi pelantar pembelajaran dalam talian. Jam SLT bagi satu Micro-Credentials dicadangkan di antara 20 hingga 40 jam SLT.

## Program Akreditasi Micro-Credentials (APMC)

Micro-Credentials boleh **dibangunkan dari program-program berakreditasi sedia ada** untuk memberi akses kepada pelajar di mana satu atau beberapa kursus dari program-program tersebut boleh ditawarkan kepada pelajar.

## Stand-Alone Micro-Credentials (SAMC)

SAMC boleh dihasilkan **daripada mana-mana pengetahuan, kemahiran dan kompetensi** tertentu berasaskan keperluan pihak-pihak yang berkaitan.

SAMC boleh dihasilkan daripada kursus dalam program akademik yang diiktiraf atau direka semula berdasarkan keperluan khas majikan atau industri atau individu untuk pengetahuan, kemahiran dan kompetensi tertentu. Micro-Credentials ini bertujuan untuk memenuhi keperluan tenaga kerja untuk pengetahuan, kemahiran dan kecekapan baru

# Sasaran Micro-Credentials 2024

# 125

**Target**  
Micro-Credentials  
2024

## 34

### 24



Dibangunkan dalam program Sarjana Kejuruteraan Mekanikal sebagai kursus elektif.

Kursus : Teknologi Dron yang ditawarkan secara MC (4 CrH) (menawarkan opsyen sijil profesional)

Sebahagian kursus ditawarkan di UMPSA sebagai:

- Kursus elektif bebas sarjana muda (3 CrH)
- Kursus ko-kurikulum ADAB (2 CrH)
- Kursus SPPT (2 CrH)

**Sijil Profesional Teknologi Dron** – kerjasama UMPA & Industri AAD

(Dengan opsyen pensijilan professional RCOC-B dari CAAM)

### 8



- Program Electric Vehicle Mobility

### 1



- Marketing

### 1



- Machine Maintenance

## 16

Micro-Credentials Faculty/Centre

### 2

Fakulti Teknologi Kejuruteraan Awam

### 2

Fakulti Sains & Teknologi Industri

### 2

Fakulti Teknologi Kejuruteraan Elektrik & Elektronik

### 2

Fakulti Teknologi Kejuruteraan Mekanikal & Automotif

### 2

Fakulti Teknologi Kejuruteraan Pembuatan & Mekatronik

### 2

Pusat Sains Matematik

### 2

Pusat Sains Kemanusiaan

### 2

PTJ

## 75

Bersasar: SIM - Open Distance Learning

### 15

Fakulti Pengurusan Industri  
Program: Masters in Business Administration

### 15

Fakulti Pengurusan Industri  
Program : Masters in Project Management

### 15

Fakulti Komputeran  
Program : Masters in Digital Transformation

### 15

Fakulti Teknologi Kejuruteraan Kimia Proses  
Program: Master of Chemical Engineering with Entrepreneurship

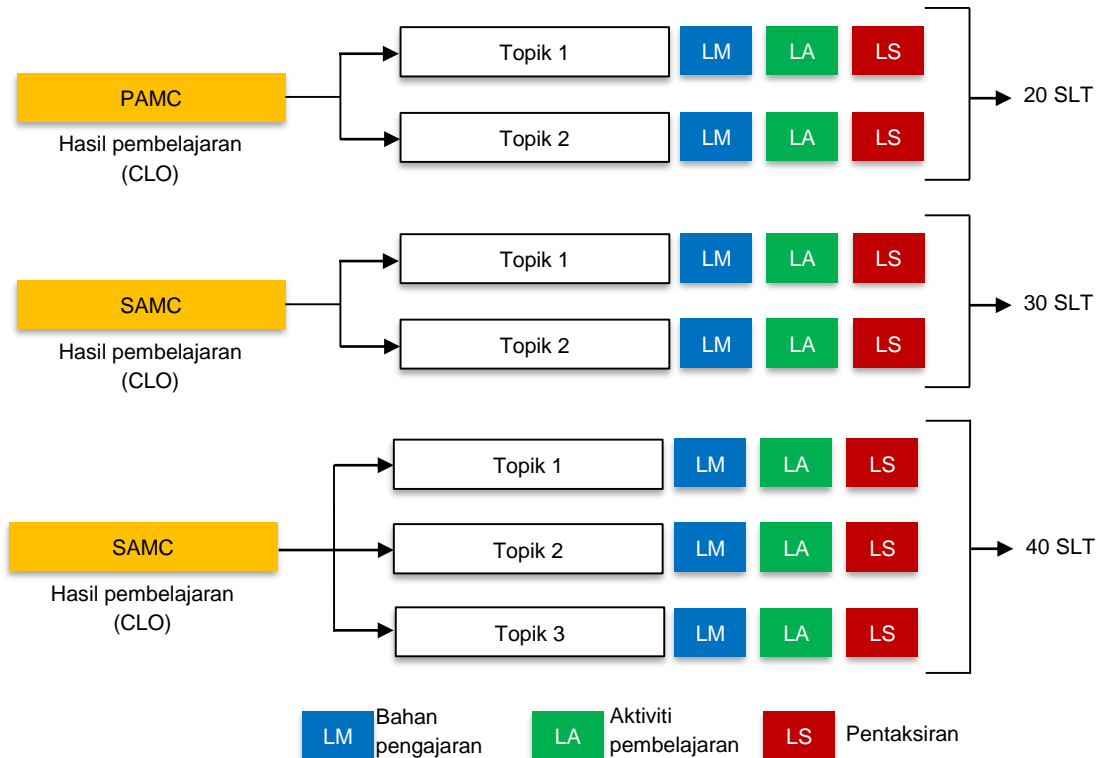
### 15

Pusat Bahasa Moden  
Program: Master of Science in Technology-Integrated Language Studies

Micro-Credentials

# Pelaksanaan Micro-Credentials

## Rekabentuk Micro-credentials



## Simulasi Micro-credentials



## 1. TAJUK MICRO-CREDENTIALS

- Catchy

### Contoh Cadangan tajuk :

1. Drone Technology
2. Lets Fly With Drone

## 2. VIDEO TEASER / PROMOSI

- Durasi 1-2 minit
- Ayat pernyataan / sinopsis ringkas

### Contoh skrip

"Are you a professional photographer or video editor? You want to take amazing photos or videos that will blow your mind. Join us now and enjoy the shared experience of achieving your dreams with drones!"



### ROAD PAVEMENT MATERIALS : TEASER

### 3. VIDEO PENGENALAN KURSUS

- Durasi 1-2 minit
- Ayat pernyataan CLO atau topik pembelajaran

#### Contoh skrip

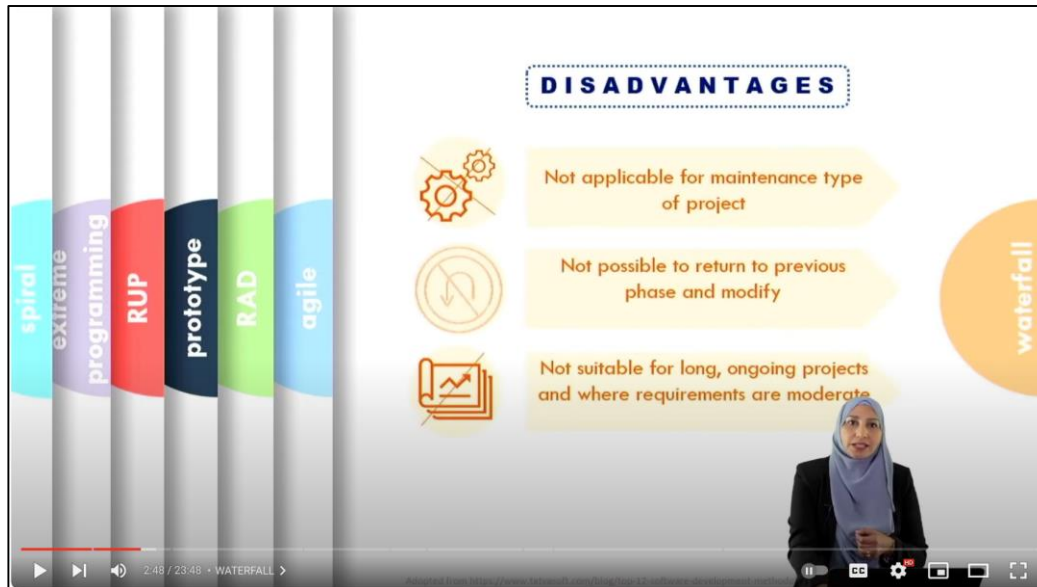
"The drone world is the place where your imagination meets the blue sky. Welcome to the Drone Basic Course. **You have the opportunity to learn the basics of flying a drone (CLO)** with experienced experts to feel the freedom of flying and explore the world from a new height."



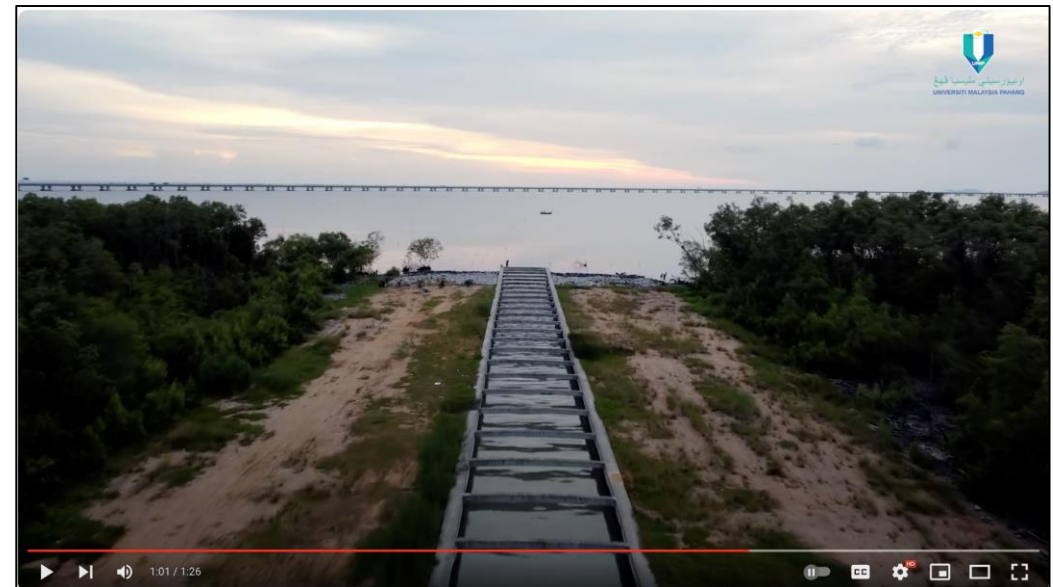
#### [VIDEO INTRODUCTION: RESERVOIR FLUIDS FLOW](#)

## 4. VIDEO KANDUNGAN PENGAJARAN

- Durasi video minimum 10 minit – maksimum 15 minit
- Jenis video (slide/greenscreen + voice over)



Slide + greenscreen

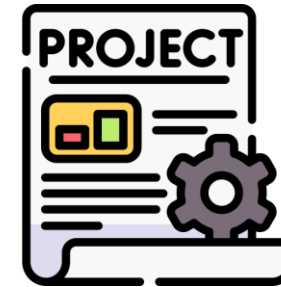


Voice over + video

## Aktiviti Pembelajaran



## Pentaksiran



Project






























Assignment



Test



Quiz

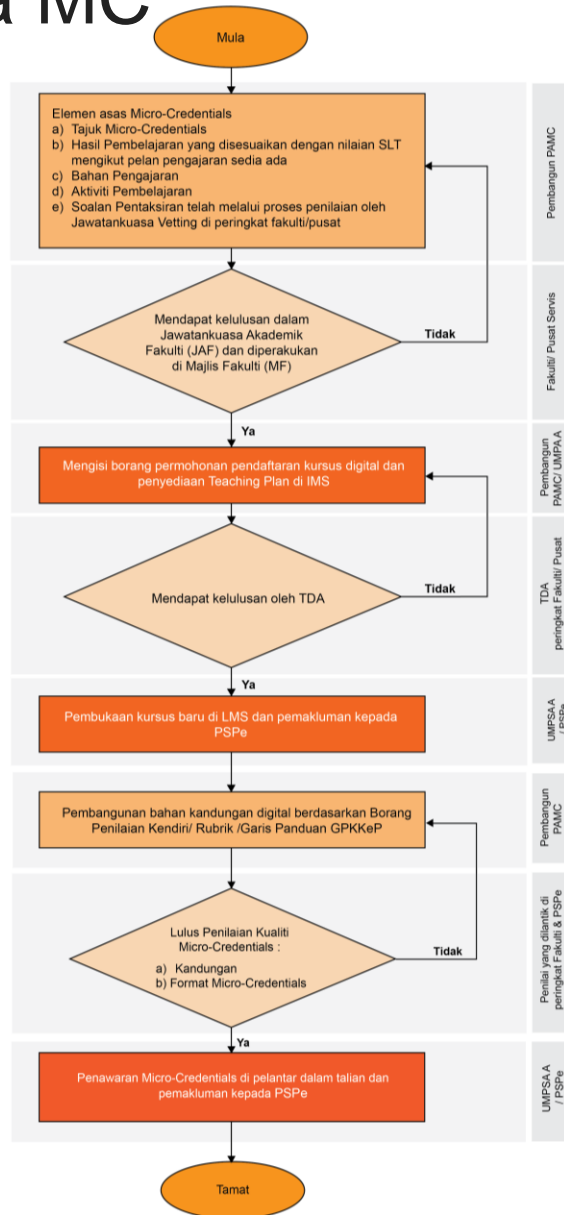
Free Useful AI Tools	
Chatbot I	 ChatGPT  Bard  Bing
Chatbot II	 Forefront  Poe  Perplexity
Design	 Adobe Firefly  Bing  Microsoft Designer
Video	 Capcut  Descript  Vista.us
Content	 Opus Clip  Cohesive  Copy.ai
Presentation	 Tome  Decktopus  Gamma
Productivity	 Saga.so  Taskade  Kickresume
Code	 Codeium  AskCodi  CodeWhisperer
Meetings	 Loopin  Krisp  TL;dv

## AI Script Writers

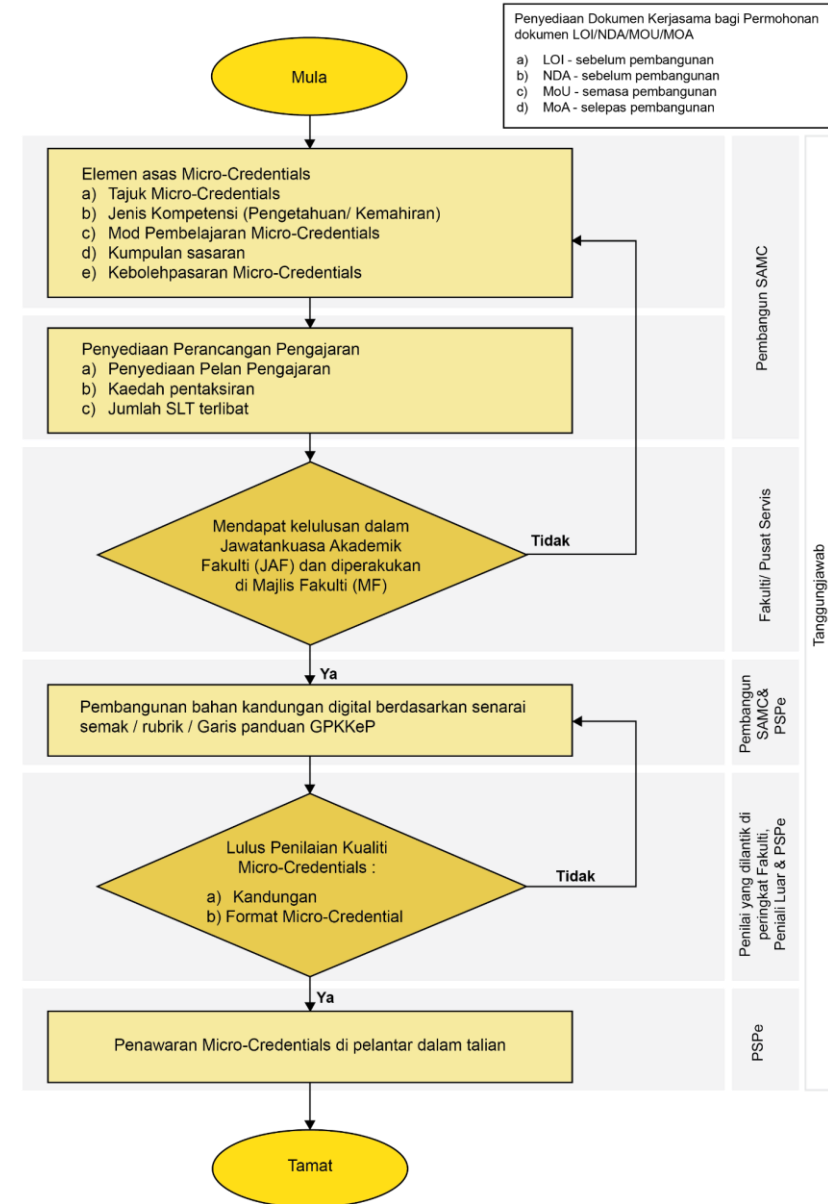
1. Jasper
2. OpenAI's ChatGPT
3. Copy.ai
4. Writesonic
5. AI Writer
6. WordAi
7. Kuki Chatbot
8. CopySmith
9. Textun
10. Copywrittech

# Proses Kerja MC

## 1 Proses kerja Penyediaan APMC UMPSA



## 2 Proses kerja Penyediaan Micro-Credentials bersama rakan kolaborasi/ agensi luar/ industry/SAMC



# Jaminan Kualiti

rzahirah@ump.edu.my  
nurainisabila@ump.edu.my

Submission Date: Dec 26, 2023 11:30 AM

NAMA PENJAH: Raihana Zahrah Edros

E-MAIL RASMI PENJAH: rzahirah@ump.edu.my

NOMBOR TELEFON: 019-2762419

FAKULTI / PUSAT: IPS

NAMA MODUL / KURSUS: LANGUAGE IN CONTEXT

E-MAIL RASMI PEMBANGUN KURSUS: nurainisabila@ump.edu.my

NAMA PENJAH PEMBANGUN KURSUS: NUR ANISNABILA BINTI DIANAH


LANDING PAGE: SEBELUM PENDAFTARAN

	Yes	No
2.1.2 TAJUK MODUL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tajuk mempunyai maksud yang jelas.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.2 MAKLUMAT MODUL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sinopsis modul jelas.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hasil pembelajaran modul jelas	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cadangan tempoh masa pembelajaran yang munasabah	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kaedah pembelajaran yang jelas	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.2.4 MAKLUMAT FASILITATOR / KUMPULAN PAKAR PENGAJAR	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gambar yang bersesuaian meningkatkan rapport.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pernyataan ringkas kepakaran fasilitator	<input checked="" type="checkbox"/>	<input type="checkbox"/>

LANDING PAGE: SELEPAS PENDAFTARAN

	Yes	No
2.1.2 TAJUK MODUL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tajuk mempunyai maksud yang jelas	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.2 MAKLUMAT MODUL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sinopsis ringkas modul yang jelas.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hasil pembelajaran modul yang jelas	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cadangan tempoh masa pembelajaran yang munasabah	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kaedah pembelajaran yang sesuai	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.2.4 MAKLUMAT FASILITATOR / KUMPULAN PAKAR PENGAJAR	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Maklumat kepakaran fasilitator yang relevan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.3.2 STRUKTUR MODUL - Raka bentuk pembelajaran (4) elemen wajib pembelajaran	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I) Maklumat pembelajaran yang jelas	<input checked="" type="checkbox"/>	<input type="checkbox"/>
II) Bahan pengajaran yang sesuai	<input checked="" type="checkbox"/>	<input type="checkbox"/>
III) Aktiviti pembelajaran yang sesuai	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IV) Pentaksiran yang sesuai	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.4.1 VIDEO PROMOSI	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Video ringkas dan jelas berkaitan modul	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pernyataan ayat promosi yang menarik minat kumpulan sasaran dan tidak melebihi 3 ayat	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.4.2 VIDEO PENGENALAN MODUL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ringkasan berkaitan modul yang jelas	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ringkasan berkaitan modul yang jelas	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pernyataan sumber rujukan yang terkini dan relevan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.4.3 VIDEO KANDUNGAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mempunyai audio yang jelas	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mempunyai teks dan saiz tulisan yang jelas dan bersesuaian	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ilustrasi yang menarik minat kumpulan sasaran	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kaedah pengajaran yang menarik dan interaktif (contoh: staid interaktif)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.6 HAK CIPTA	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sitawi yang menepati ketetapan	<input checked="" type="checkbox"/>	<input type="checkbox"/>

KEPUTUSAN PENILAIAN: Memenuhi Kriteria Penilaian

SIGNATURE (Insert your digital signature here): 

OFFICIAL STAMP (Insert your official stamp here): 

Contoh borang penilaian oleh pakar bidang

# Cadangan Rekabentuk Sijil Profesional



## DRONE TECHNOLOGY

UAS General Knowledge

Air Law and UAS Regulatory Requirement

UAS Airspace Operating Principles

UAS Airspace Operating Principles

Meteorology

Navigation

Airmanship and Aviation Safety

UAS Operational Procedure



## DRONE AGRICULTURAL APPLICATION

Agricultural UAS General Knowledge

Air Law and UAS Regulatory Requirement

UAS Airspace Operating Principles

Human Performance and Limitations (HPL)

Meteorology for Agricultural Operation

Navigation for Agricultural UAS

Agricultural UAS Operational Procedure

UAS Operations Manual for Aerial Work Certification (AWC)



## DRONE ADVANCED OPERATIONS

Introduction to UAS Technology

Air Law and UAS Airspace Operating Principles

Human Performance and Limitations (HPL)

Meteorology and Navigation

Airmanship and Aviation Safety

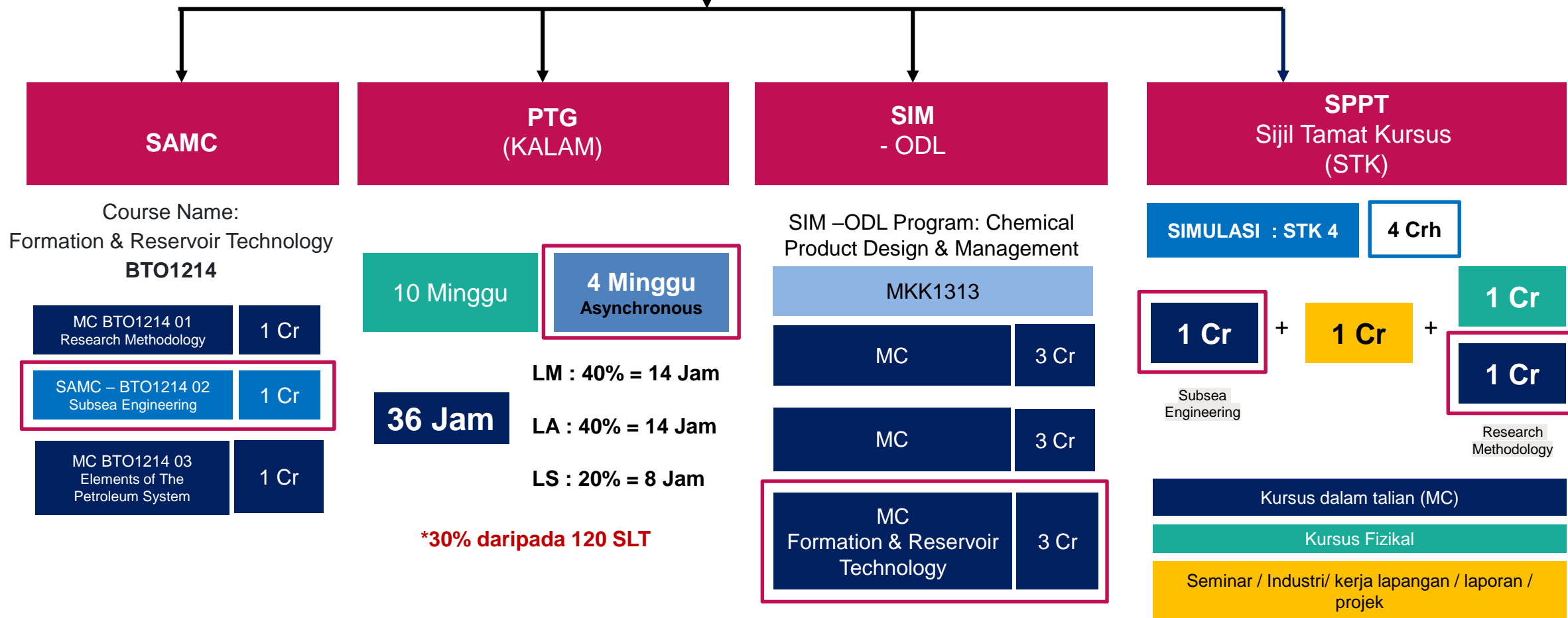
Operational Manual and Procedure

Special UAS Project

Drone for Asset Inspection



**Micro-Credentials**  
 Subsea Engineering



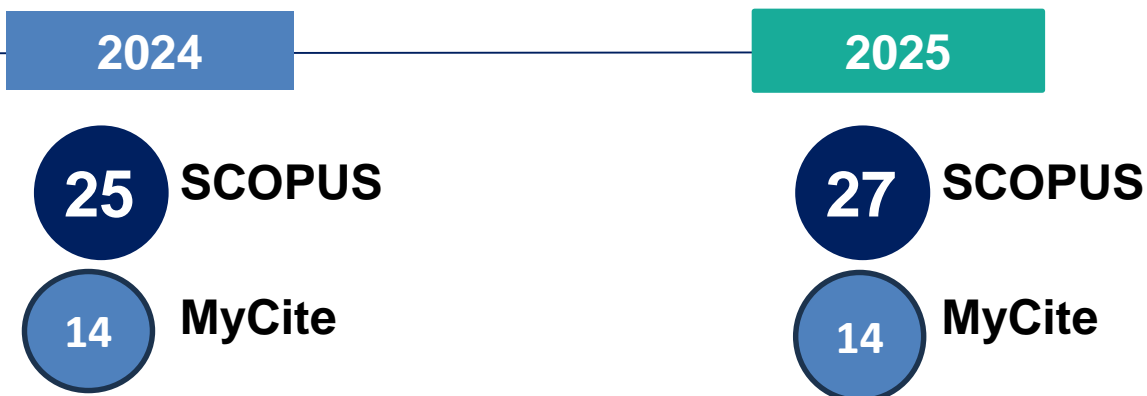
# Penyetaraan

## Contoh



## SASARAN MC YANG AKAN DISETARAKAN BAGI TAHUN 2024 - 2025

Sasaran pembangunan MC adalah terdiri dari kursus dalam program ODL dan kursus akademik dari program sedia ada.



- Kelulusan Senat Universiti cadangan penyetaraan kursus Micro-Credentials (MC) kepada Penerbitan
- **Dasar e-Pembelajaran Negara (DePAN)** yang menyatakan bahawa IPT perlu membangunkan e-kandungan asli sebanyak 40% daripada kursus yang ditawarkan dalam **Fasa 3 (2021-2025)** yang juga menekankan setiap IPT perlu mewujudkan mekanisme penyetaraan e-kandungan dengan penerbitan.

# Global Classroom (GC)



**Ts. Dr. Anis Farihan Mat Raffei**  
Ketua Teknikal PSPe

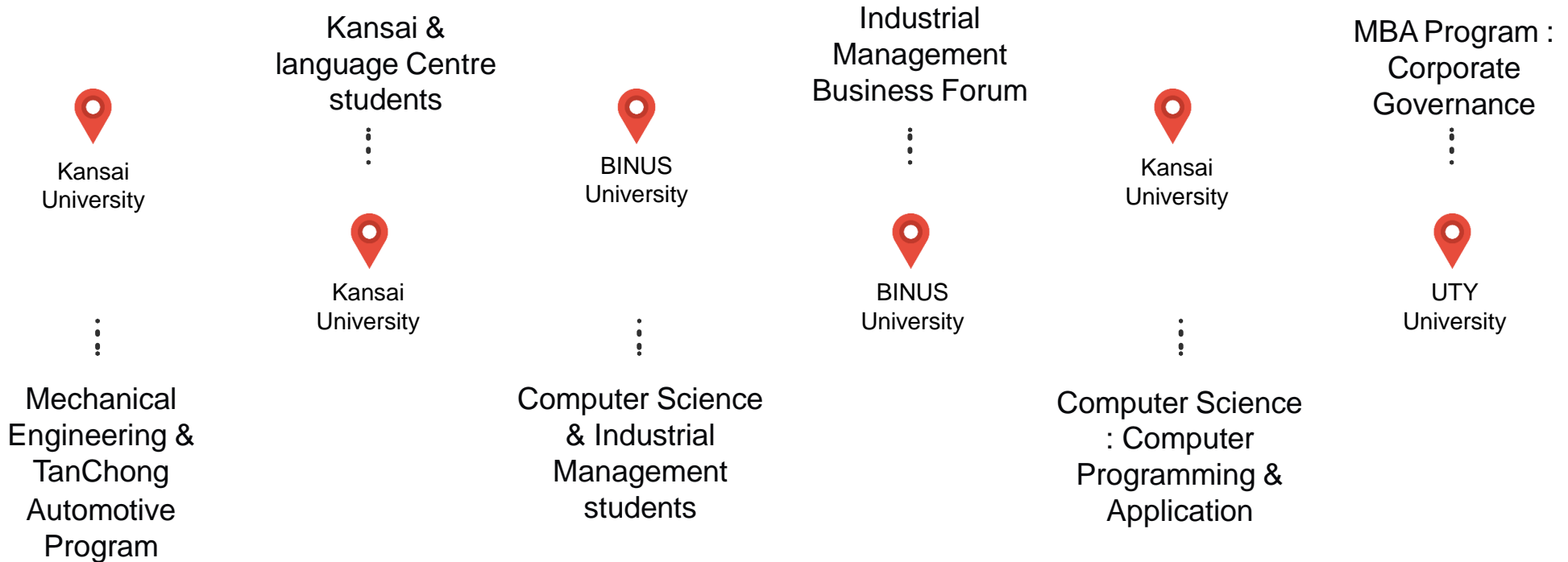
# What is Global Classroom?



Global Classroom is a contemporary teaching paradigm which is beyond classroom boundary (regardless of geographical, time zone, languages and cultural barriers)

As students collaborate virtually while being mentored by international educators from partner Institution or industries through technology integrated Collaborative Online International Learning

# Global Classroom Experiential Learning



# How is Global Classroom Take Place?



The State of University  
New York Collaborative  
Online International Learning  
**(SUNY-COIL)**

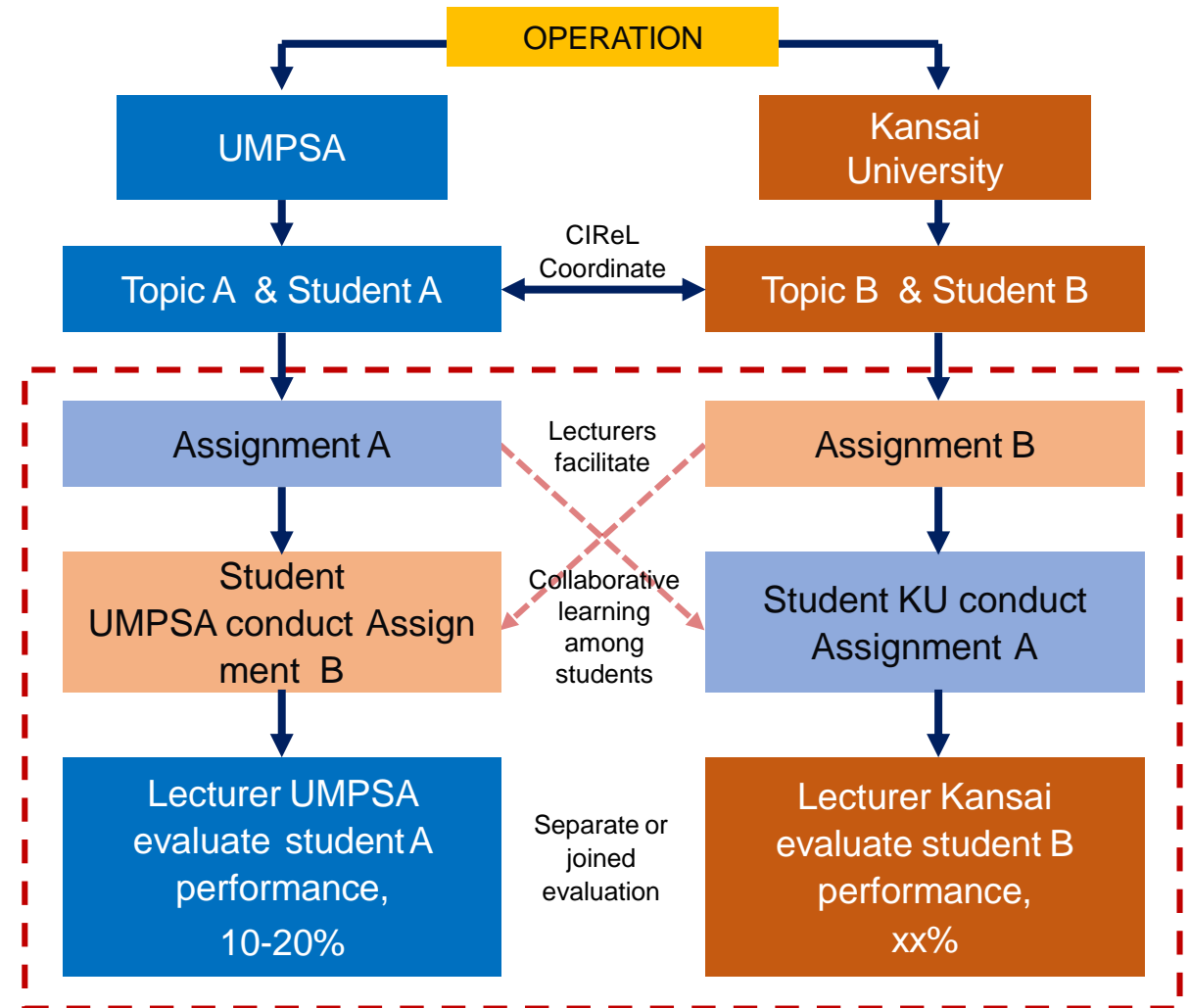


Kansai University  
Collaborative Online  
International Learning  
**(KU-COIL)**



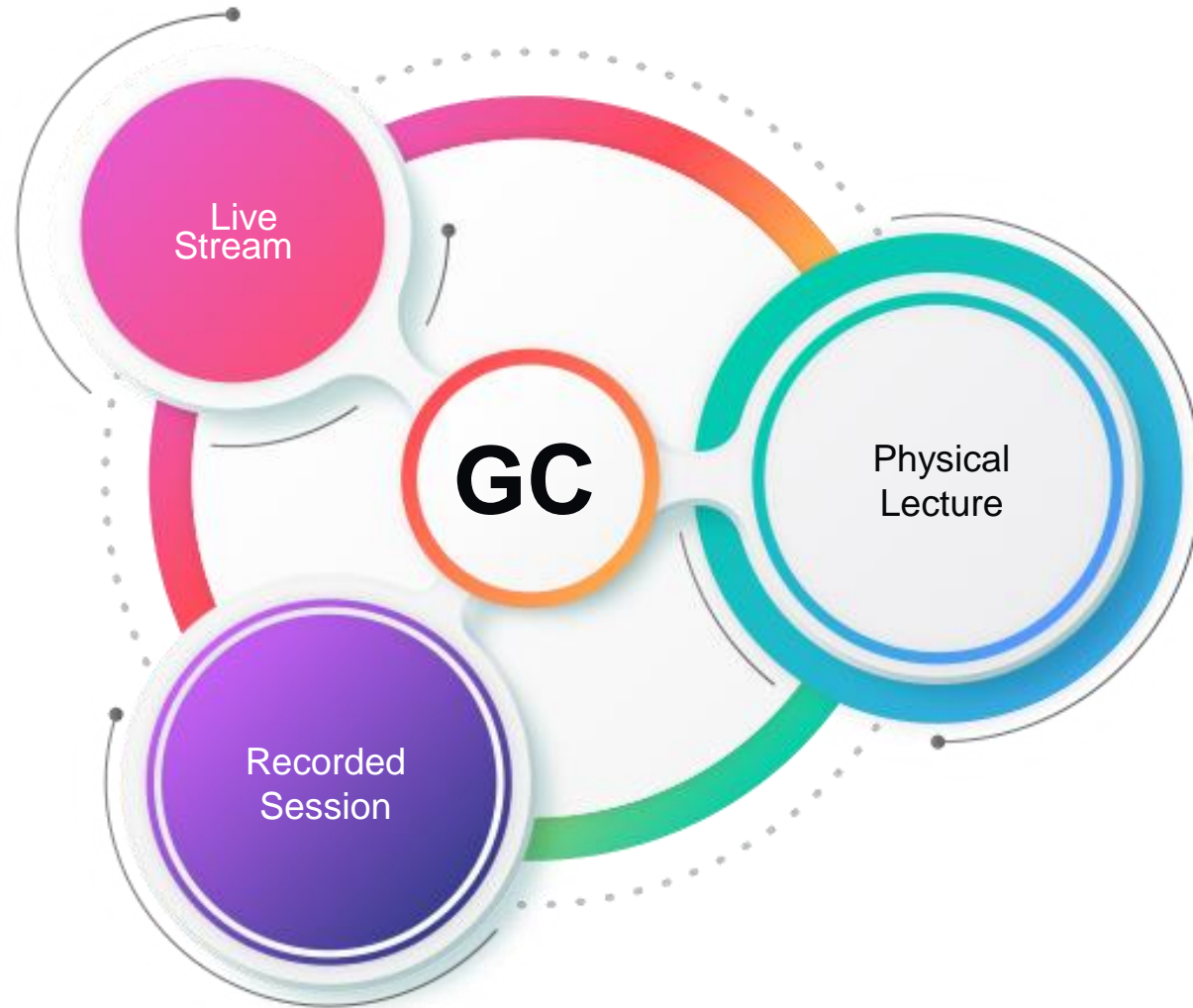
اوتورسيتي مليسيا فهغ السلطان عبد الله  
UNIVERSITI MALAYSIA PAHANG  
AL-SULTAN ABDULLAH

Universiti Malaysia Pahang  
Al-Sultan Abdullah  
Global Classroom  
**(GC)**



Global Classroom ACTIVITIES

# GC Session Implementation Mode



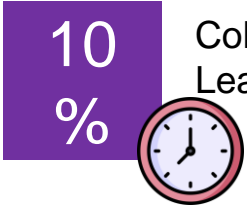
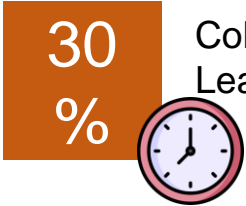
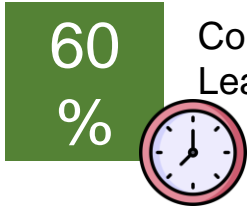
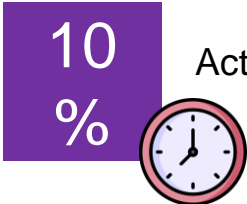
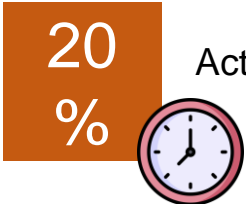
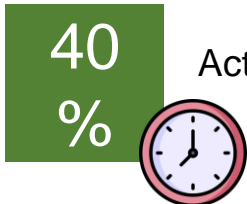


All in one teaching plan template



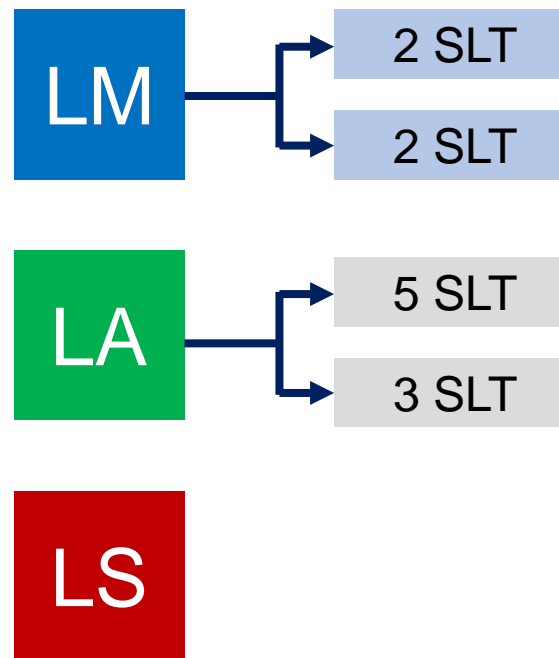
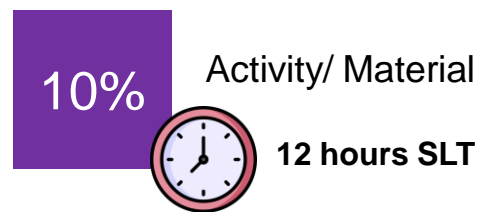
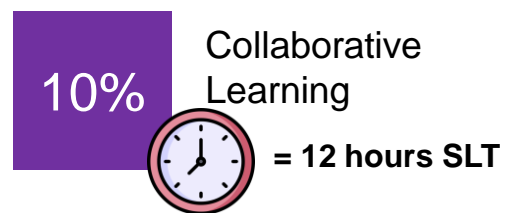
[TEACHING PLAN](#)

- ✓ Sample teaching plan covers all CIREL initiatives into a subject .
- ✓ Initiatives include Micro Credential + GC + PTG
- ✓ Scan the QR code on the right for full view of the sample teaching plan.

# Simulation : Global Classroom Implementation

	BASIC GC	STANDARD GC	ADVANCED GC
Learning time	<p>10% Collaborative Learning = 12 hours SLT</p> 	<p>30% Collaborative Learning = 36 hours SLT</p> 	<p>60% Collaborative Learning = 72 hours SLT</p> 
Activity / Material	<p>10% Activity/ Material = 12 hours SLT</p> 	<p>20% Activity/ Material = 24 hours SLT</p> 	<p>40% Activity/ Material = 48 hours SLT</p> 
Assessment		<p>10% Assessment (minimum)</p> 	<p>20% Assessment (minimum)</p> 
GC Index	AVERAGE	GOOD	EXCELLENT

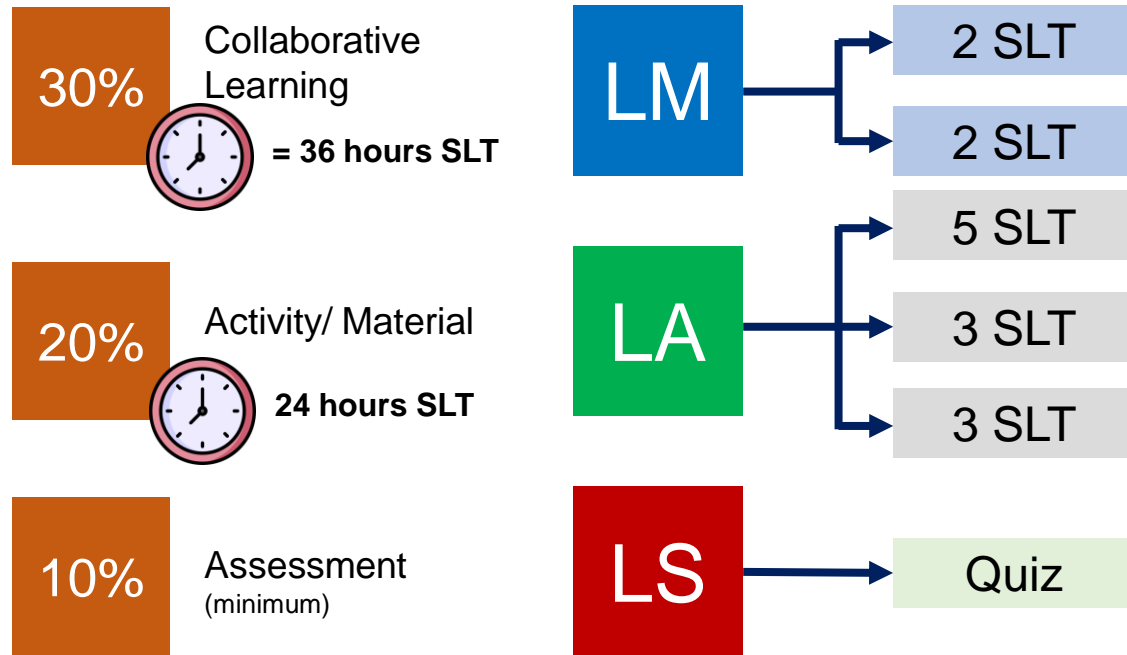
Example Global Classroom for 3 credit hour subject (1 credit hour =40 SLT)



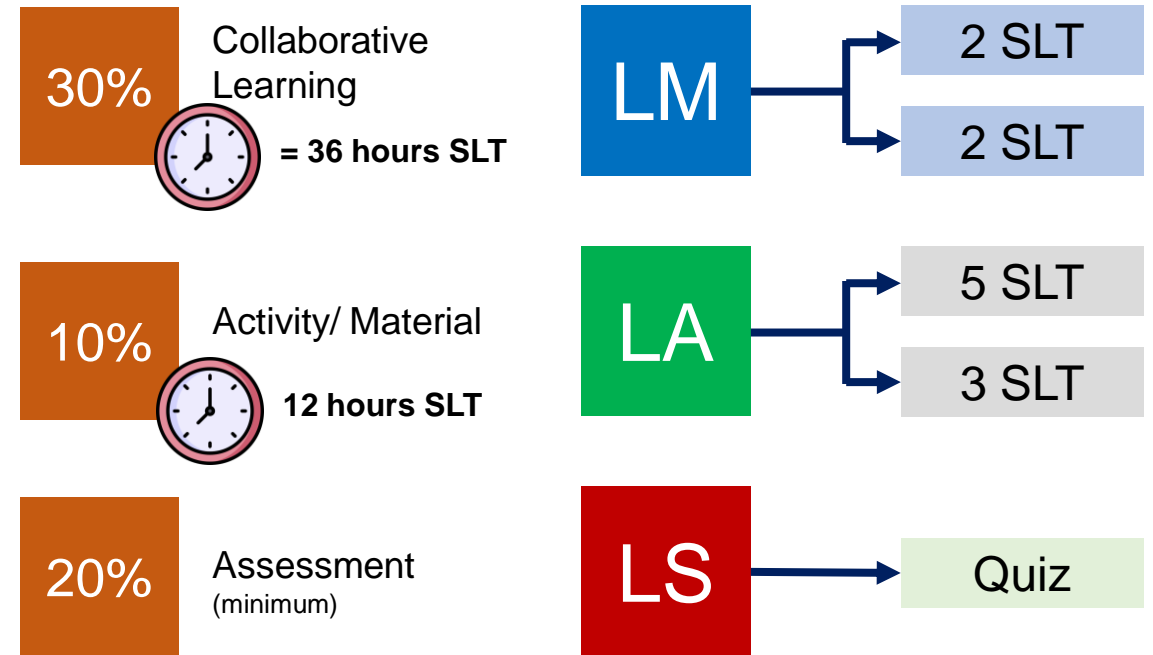
# Standard

# Global Classroom

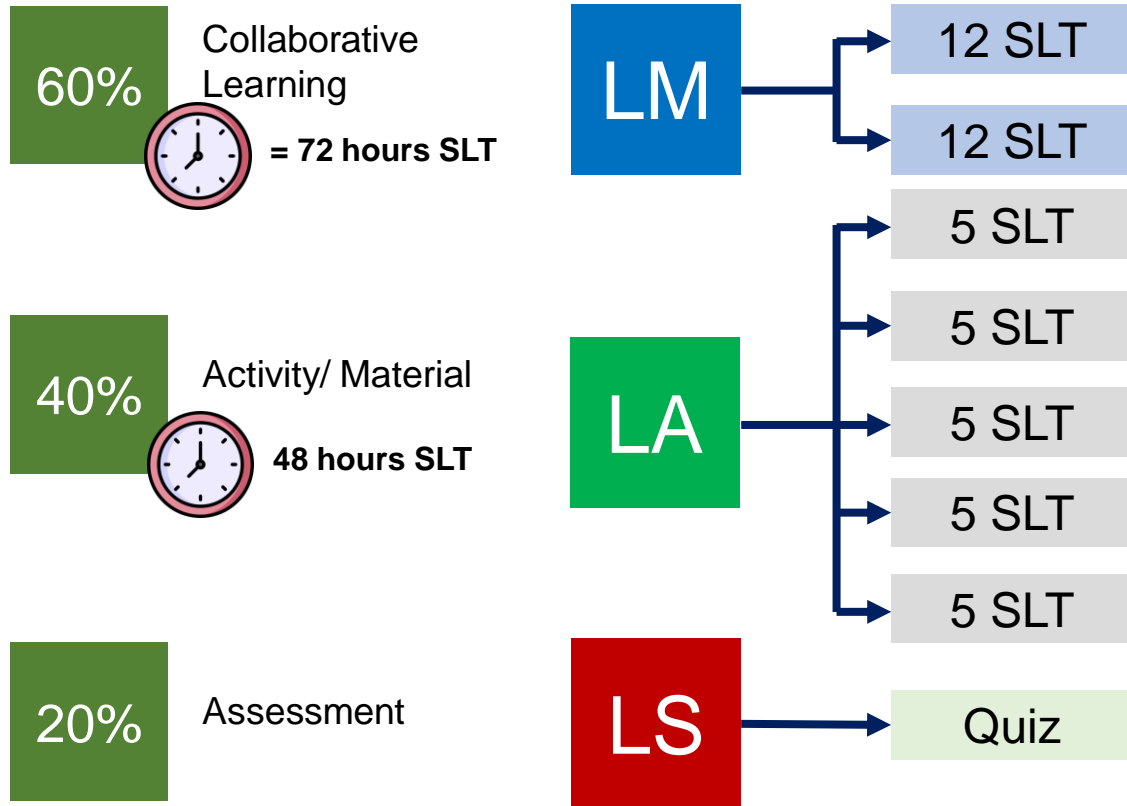
Simulation : 1



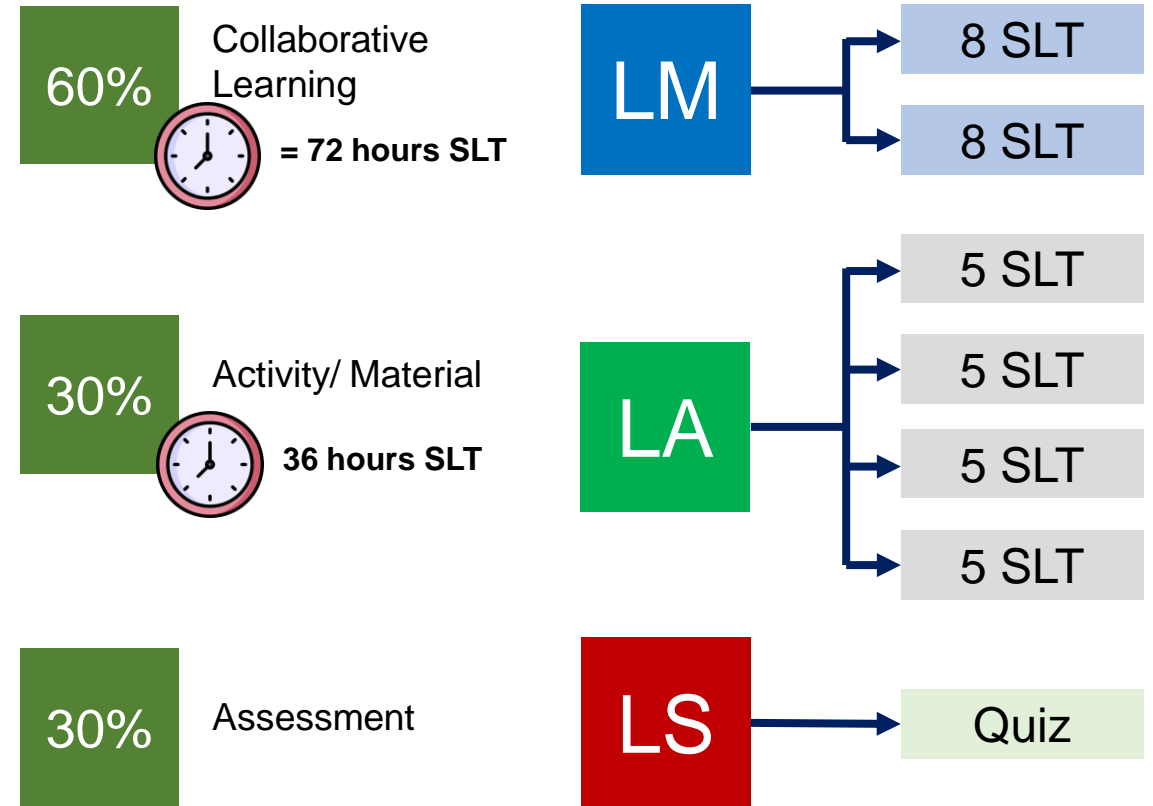
Simulation : 2



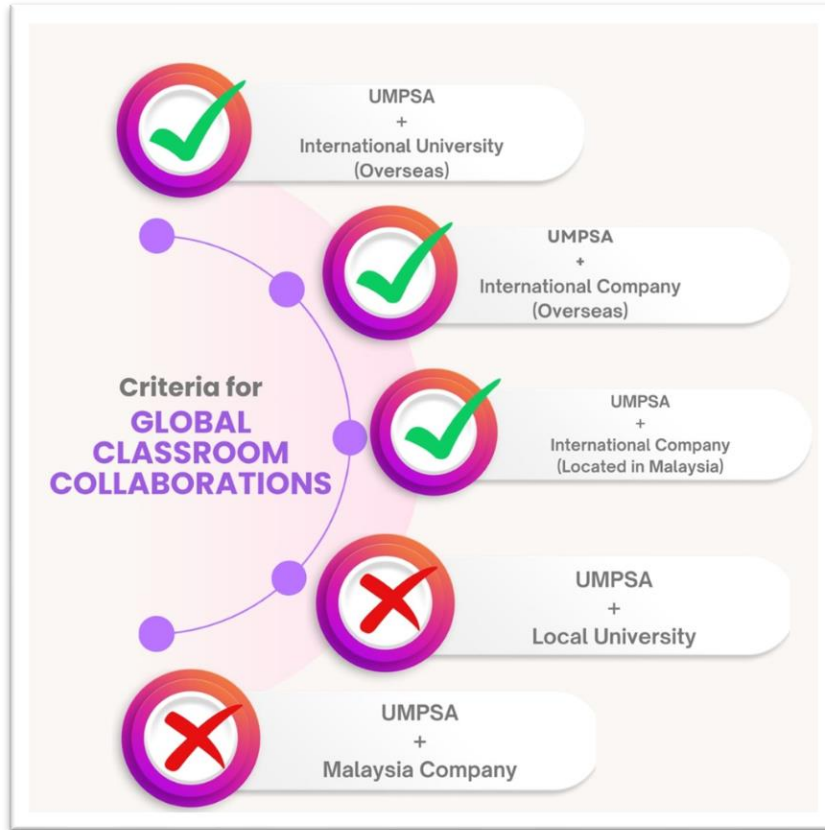
## Simulation : 1



## Simulation : 2



# Proses Kerja Pelaksanaan GC



- Please fill in the **(form A)** below if you are interested in conducting Global Classroom in your lecture.
- Submit full report for Global Classroom session **(Form B)** with approval by faculty to CIREL.

<https://cirel.umpsa.edu.my/>

GLOBAL CLASSROOM

# Initiative GC 2024 > Mini Symposium

## University Teaching & Learning Innovation Carnival (UTLIC) 2024

“Education Without Borders: Empowering e-Learning through Micro-Credentials and Global Classrooms”

Date: 1st August 2024, Thursday

Target participants: Academicians / Students / Academic Centre

(Fees: RM30-Certificate & Lunch)

Officiating: Vice Chancellor / Deputy Vice Chancellor (Academic & International) / Sponsor

### **Objective:**

1. Sharing session from staff who have done Global Classroom & Micro-Credentials
2. Invited speakers from universities abroad
3. Award presentation session for the most active GC 2023 (New Proposal)
4. Award for MC 2023

# Insentif RM500

## HEBAHAN PEMAKLUMAN STATUS INSENTIF PEMBELIAN PERKAKASAN DIGITAL PENGAJARAN & PEMBELAJARAN DALAM TALIAN (PDP-DT)

Merujuk kepada mesyuarat Pengurusan PSPe bersama Bendahari UMPSA pada 5 Januari 2024:

- i. Tiada lagi pembayaran bagi tuntutan **Insentif Pembelian Perkakasan Digital bagi Pengajaran & Pembelajaran Dalam Talian (PDP-DT)** bermula dan berkuatkuasa Januari 2024.
- ii. Staf akademik & tenaga pengajar UMPSA boleh dan digalakkan untuk menggunakan kemudahan rakaman bagi tujuan pembangunan bahan PDP-DT yang disediakan oleh Pusat Sumber Pengajaran & e-Pembelajaran (PSPe) di kampus Gambang dan Pekan.

Sekian untuk makluman.

Terima kasih