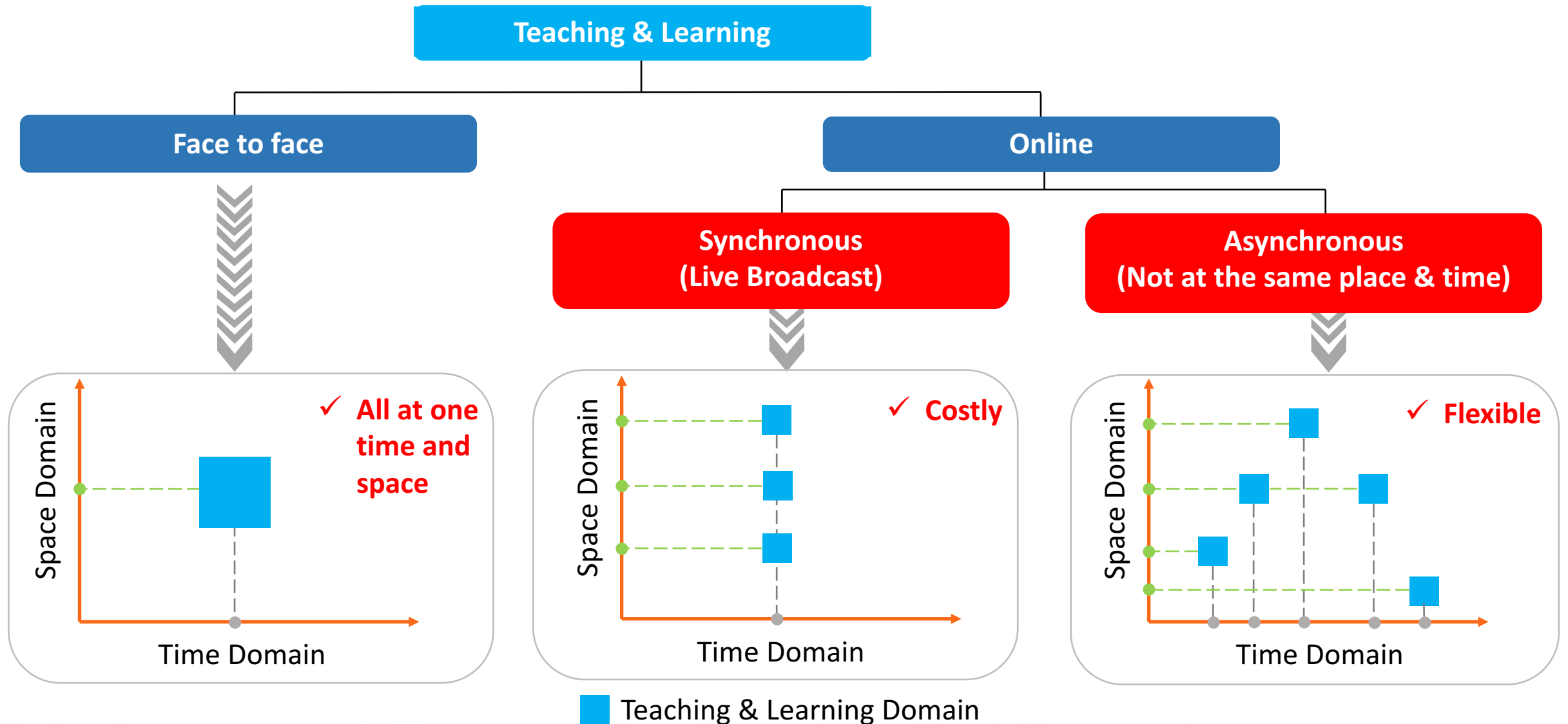


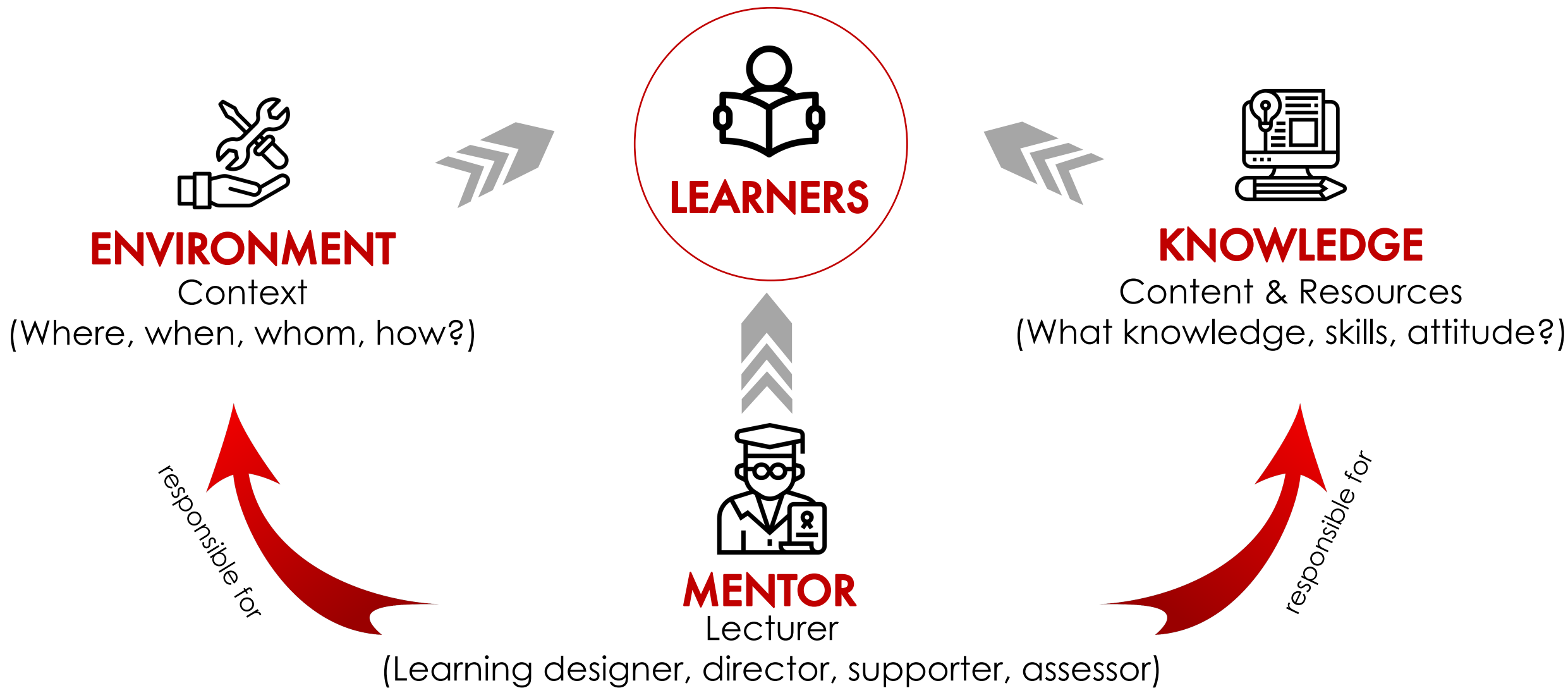
# ONLINE LEARNING DESIGNER

Assoc. Prof. Dr. Radhiah Shukri  
Faculty of Food Science & Technology  
[radhiah@upm.edu.my](mailto:radhiah@upm.edu.my)

# HOW DO ONLINE CLASS DIFFER FROM FACE-TO-FACE CLASS ?



# 4 KEY ELEMENTS OF TEACHING EXPERIENCE





# HOW DO ONLINE CLASS DIFFER FROM FACE-TO-FACE CLASS ?



**MENTOR**



- ✓ The faculty role shifts to more coaching, guiding, and mentoring
- ✓ Assessment is continuous



**LEARNERS**



- ✓ Learners are more active and direct more of their own learning experiences



**KNOWLEDGE**



- ✓ Content resources are flexible and virtually infinite



**ENVIRONMENT**



- ✓ Learning environments for gathering and dialogue are primarily asynchronous with occasional synchronous meetings

# SCOPE OF A LECTURER IN AN ONLINE CLASS



**MENTOR**



## Lecturer shifts to more coaching, guiding, and mentoring

- ✓ Prepare recorded/written mini-lectures and resource introductions
- ✓ Prepare facilitation and community-building experiences
- ✓ Monitor and guide students in their learning experiences

## Assessment is continuous

- ✓ Continuous, multi-phased with community input rather than individual-focused
- ✓ Use a combination of:
  - automated quizzes
  - frequent postings in discussion forums
  - short papers, case study practices and analyses
  - customized projects



**LEARNERS**



**KNOWLEDGE**



**ENVIRONMENT**

# SCOPE OF STUDENTS IN AN ONLINE CLASS



MENTOR



LEARNERS



KNOWLEDGE



ENVIRONMENT

**Learners are more active and direct more of their own learning experiences**

- ✓ More emphasis on student choice and personal learning decisions
- ✓ Learners must do more thinking, writing, doing, sharing, reflecting, collaborating, and peer reviewing as part of a community of learners
- ✓ Involved in discussion forums with effective catalyst discussion questions

# SCOPE OF KNOWLEDGE IN AN ONLINE CLASS



MENTOR



LEARNERS



KNOWLEDGE



ENVIRONMENT



## Content resources are flexible and virtually infinite

- ✓ Use variety of content resources
- ✓ Can be overwhelming for students - establish a weekly rhythm with regular, rigorous milestones
- ✓ Encourage students to suggest, contribute and create additional content resources

## Give core concepts to students

- ✓ Concepts are not words, but organized and detailed knowledge clusters
- ✓ You don't have to give everything to students



**HOW MUCH CONTENT  
IS ENOUGH FOR  
ONLINE LEARNING?**



# SCOPE OF KNOWLEDGE IN AN ONLINE CLASS



MENTOR



LEARNERS



KNOWLEDGE



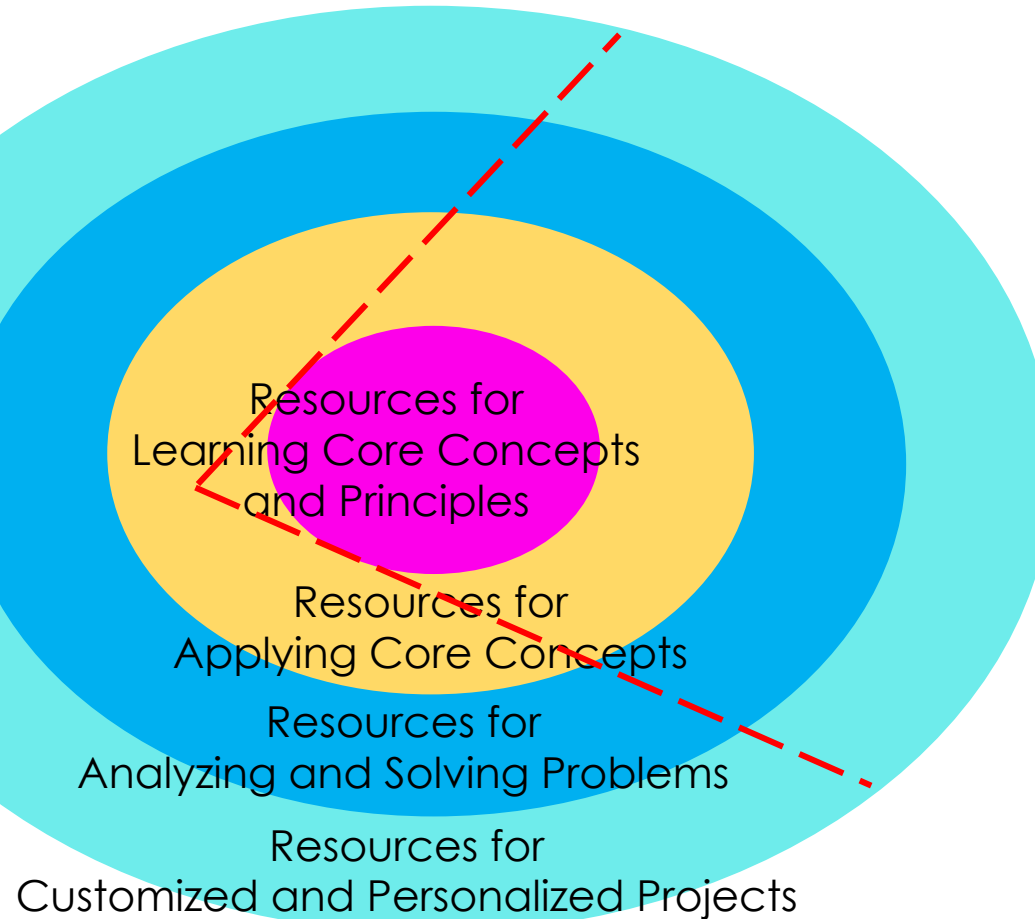
ENVIRONMENT

## OUR GOAL:

Each student is to master a slice of the pie, but to be sure that the slice includes the whole of the center with the core concepts



## CUSTOMIZING CONTENT RESOURCES

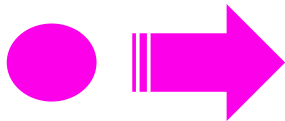
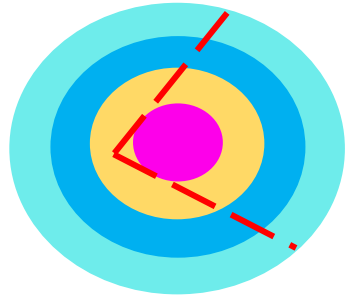


As students move outwards from the core, students apply the core concepts in more complex scenarios. By the fourth layer, students direct their own experience and work on applying concepts to complex problems where solutions may or may not be able to be known.



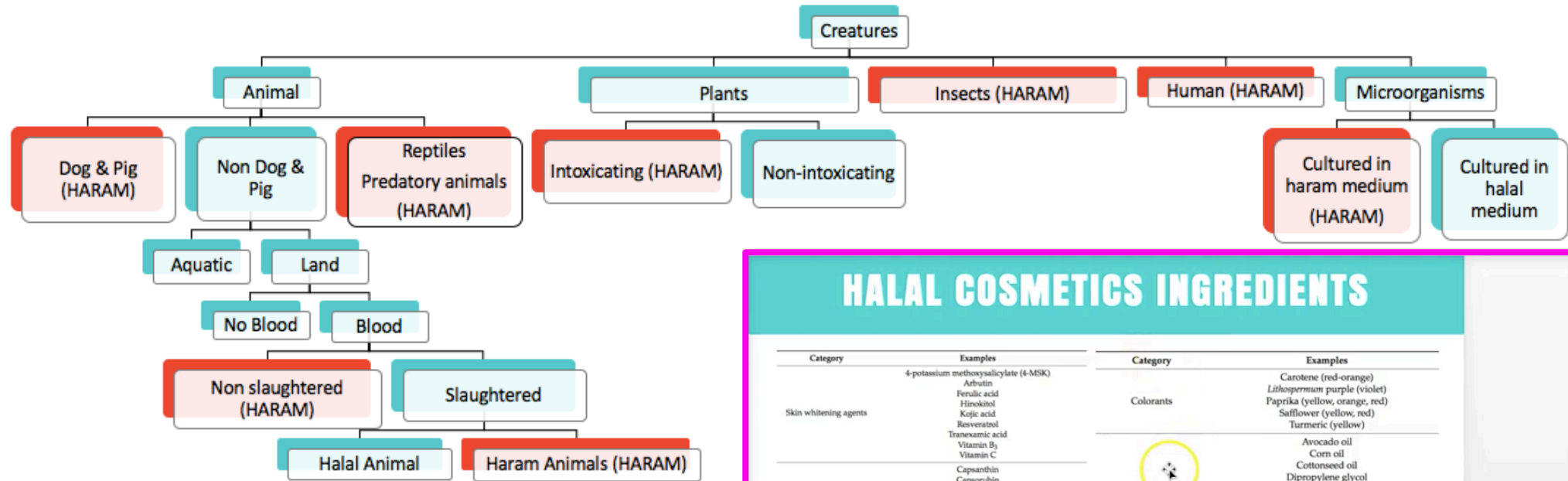
# **EXAMPLE OF CUSTOMIZING CONTENT RESOURCES**

# STEP 1- Provide learning core concepts & principles



Resources for Learning Core Concepts and Principles

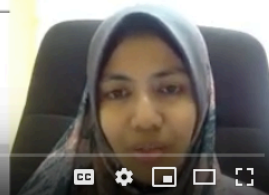
## NAJS TREE (ORGANISMS)



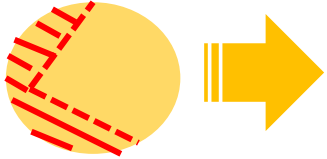
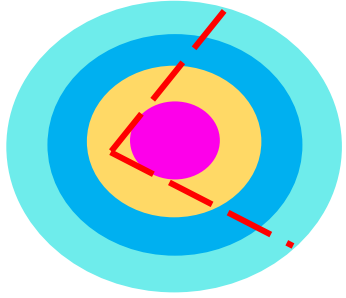
IMPORTANT: THIS NAJS TREE IS APPLICABLE UNDER

## HALAL COSMETICS INGREDIENTS

Category	Examples	Category	Examples
Skin whitening agents	4-potassium methoxysalicylate (4-MSK)	Colorants	Carotene (red-orange)
	Arbutin		<i>Lithospermum</i> purple (violet)
	Ferulic acid		Paprika (yellow, orange, red)
	Hirokitol		Safflower (yellow, red)
	Kojic acid		Turmeric (yellow)
Anti-aging agents	Resveratrol	Solvents	Avocado oil
	Tranexamic acid		Corn oil
	Vitamin B <sub>3</sub>		Cottonseed oil
	Vitamin C		Dipropylene glycol
	Capsanthin		Jojoba oil
	Capsorubin		Liquid paraffin (mineral oil)
	Delphinidin		Polyethylene glycol
	Gallic acid		Safflower oil
	Genistein		Sesame oil
	Glycyrrhizin		Water
Thickeners	Lutein		
	Phloretin		
	Salidroside		
	Sclareol		
	Trans-communic acid (TCA)		
	Umbelliferone		
	Vitamin B <sub>5</sub>		
	Carboxymethyl cellulose		
	Carnauba wax		
	Carrageenan		
	Petrolatum		



## STEP 2- Provide resources for applying core concepts



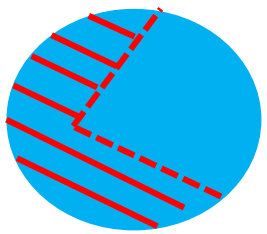
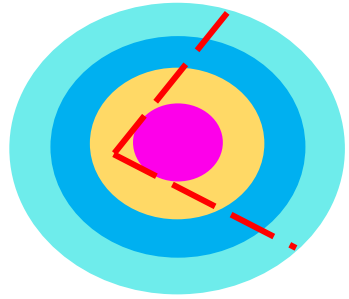
Resources for  
Applying  
Core Concepts

### Quiz

Company Maju is planning to apply for Malaysia halal certification. During audit, the auditor from JAKIM asked for the documentations of water filtering system in the processing line.

How does water filter affect the halal status of the product?

## STEP 3- Provide resources for analyzing and solving problems



Resources for  
Analyzing and  
Solving Problems



### Halal ingredients identification

This is an individual assignment.

Find 2 products (food, cosmetic or pharmaceutical product) with more than 6 lists of ingredients. These products should have a very vague and unclear list of ingredients. Note that the two products chosen should be in the same category (If you choose cosmetics, you should have 2 cosmetic products).

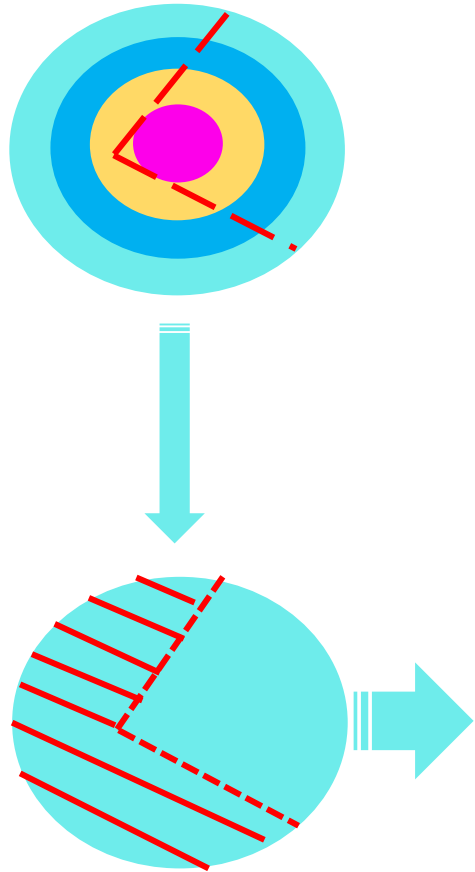
Based on the information from the list of ingredients, write a simple report (max 5 pages) that consists of the item below:

- i) Photo of each product
- ii) List of ingredients
- iii) Suggest a way of making the list of ingredients clearer.
- iv) If there are any syubhah ingredients, list the possible halal ingredients to replace it.
- v) Final thought and reflection of the activity.

Due date is on the 24th March 2020.



## STEP 4- Provide resources for customized and personalized projects



### Mini Project

Assume that you are a halal executive in a food manufacturing company.

- a) Choose a food product that has high risk in having non-halal ingredients.
- b) Design a standard operating procedure on ingredient screening of the food.
- c) Visually, draw a flow chart of the processing steps.
- d) Identify all the halal critical points in the processing procedures and come up with plan of action if any of the critical points were breached.
- e) Present your mini project in an interactive video form and submit by 24<sup>th</sup> May 2020.

Resources for  
Customized and  
Personalized Projects

# SCOPE OF ENVIRONMENT IN AN ONLINE CLASS



MENTOR



LEARNERS



KNOWLEDGE

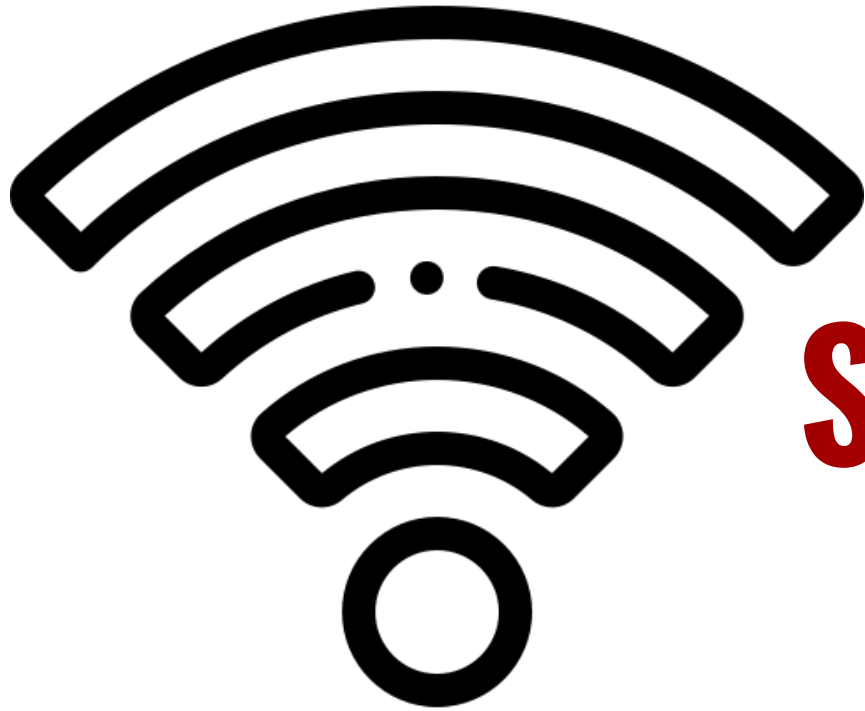


ENVIRONMENT






**Learning environments for gathering and dialogue are primarily asynchronous with occasional synchronous meetings**

- ✓ Primarily asynchronous—available at different times
- ✓ Expect that learners reflect on what they have learned from the resource assignments before they come to class (online) to participate in the course activities, such as posting their reflections in the discussion areas
- ✓ Synchronous gatherings for
  - consensus-building discussions
  - question-and-answer sessions
  - peer critiques
  - collaborative project work



**WHAT ABOUT  
STUDENT'S INTERNET  
CONNECTION?**

# INTERNET BANDWIDTH

	Low 	Medium 	High 
SPEED	Below than 1.5 Mbps	1.5 Mbps to 2.5 Mbps	More than 2.5 Mbps
APPS	<b>Group messaging</b> (e.g., Whatsapp, Telegram)	<b>PutraBLAST Gamification apps</b> (e.g., Quizizz, Kahoot) YouTube, FlipGrid, H5P	<b>Virtual Conference</b> (Big Blue Button, Zoom, Microsoft Team, Webex) <b>Google suite</b> (Doc, Slides, Drawing)
APPROACHES	Micro learning (slide as pdf, voice note, image with caption, text messages)	<ul style="list-style-type: none"> <li>• Presentation slide</li> <li>• Interactive content</li> <li>• Survey</li> <li>• Quiz</li> <li>• Collaborative activities</li> </ul>	<ul style="list-style-type: none"> <li>• all approaches of low and medium bandwidth</li> <li>• <b>Virtual conference</b></li> </ul>
ACTION	<ol style="list-style-type: none"> <li>1. Choose a focused content to learning outcome and save as image. Write description as caption and upload.</li> <li>2. Create Q&amp;A activity.</li> <li>3. Respond to students' answers</li> </ol>	<ol style="list-style-type: none"> <li>1. Upload interactive learning content</li> <li>2. Conduct collaborative activity</li> <li>3. Create assessment using gamification apps</li> <li>4. Respond to students' answers</li> </ol>	<ol style="list-style-type: none"> <li>1. Conduct virtual conference using various functions Conduct collaborative activity</li> <li>2. Create assessment using gamification apps</li> <li>3. Respond to students' answers</li> </ol>



\*Lecturers are encouraged to **conduct surveys** of students' internet access before sharing in order to plan for the development of virtual classes

\*Please **check the internet bandwidth** on relevant apps like Ookla and speedtest.tn

**YOUR PLAN OF ACTION?**



## **DO A SURVEY**

Check the internet availability & speed



## **CHOOSE MODE OF TEACHING & LEARNING**

This mode is based on the internet speed



## **CHOOSE SUITABLE PLATFORMS & MODE OF EXECUTION**

Decide which online tools/apps to use



## **PREPARE THE CONTENT**

Core concept, resources, assessments



**EXAMPLE**

Hi and assalamualaikum students. We will be conducting online class from 1st April-30th April 2020. I would like to do a survey on your internet availability and speed for choosing the right teaching and learning platform. Please give your answer based on the options below:

A: Good internet speed (Wifi or Data)

B: Medium internet speed (Wifi or Data)

C: Poor internet speed (Data)

Students

1. Azam -
2. Badrul -
3. Chuah Jia Yee -
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.

5:30 AM

## OTHER APPS FOR SURVEY

Google Form  
Survey Monkey

# ONLINE LEARNING DESIGN FOR COVID-19 PKP

<b>Survey platform</b>	Whatsapp
<b>Internet speed</b>	90% Low 10% Medium
<b>Teaching &amp; Learning Mode</b>	90% asynchronous (Micro learning) 10% synchronous (Q&A session)
<b>Apps</b>	Whatsapp (Major platform) Loom (Screen recording) Clipchamputilities (Reduce size of video file)
<b>Content</b>	1 core concept video lecture (2-3 minutes) 2 complete notes (pdf) Multiple short audio lectures with a few important note screenshots (1-2 minutes) List of other resources (Websites, You Tube)
<b>Assessments</b>	<ul style="list-style-type: none"><li>• Quiz</li><li>• Picture of mindmap (Handwritten or apps)</li><li>• Find product in their house and relate with the topic (Picture &amp; recorded audio)</li><li>• Q&amp;A and discussion in Whatsapp (1X synchronous – Ask ALL students to prepare with questions)</li><li>• Case study (Submit via Whatsapp with students name as file name)</li></ul>



# ONLINE LEARNING LESSON PLAN

TEACHING DATE	TOPIC	LESSON OUTCOME	BLOOM'S TAXANOMY (COGNITIVE, PSYCHOMOTOR, AFFECTIVE) & SOFT SKILLS	DELIVERY (Lecturer)	FACE-TO-FACE LEARNING HOURS	STUDENT LEARNING TIME	ASSESSMENT
6-12 April 2020	Introduction to International standards specification and Organization	1. Explain the International standards specification 2. Explain the International standards organization 3. <u>Evaluate and recommend on causes of toxicant from different commodities</u>	C2  C2  C5	<u>Core concept mini lecture</u>  <u>Notes</u>  <u>Short audio lecture</u>	0	2 h- <u>Self Learning</u> 30 min- <u>Lecture</u>	<u>Quiz (LO1 &amp; 2)</u>  <u>Mind map (LO3)</u>





Judith V. Boettcher · Rita-Marie Conrad

# The Online Teaching

## Survival Guide

SECOND EDITION

Simple and Practical Pedagogical Tips

**JOSSEY-BASS**  
A Wiley Brand