



SCHOOL OF INDUSTRIAL TECHNOLOGY

INSTRUCTIONAL PLAN (IP)

Course: IMK410 FOODBORNE PATHOGEN
Semester: SEMESTER II, ACADEMIC SESSION 2020/2021

Note: Due to the Conditional Movement Control Order issued by the Malaysian Government, teaching and learning have been moved online, and the final examination ("Peperiksaan Akhir" or PA) has been replaced with coursework assessment.

Lecture time	Monday (10.00 am – 11.50 am / Online) and Thursday (2.00 pm – 2.50 pm / Online)
Laboratory time	-
Tutorial time	-

No.	Lecturer	Email address	Teaching load
1	Dr. Norlia Mahrer	norlia.mahrer@usm.my	1.5
2	Dr. Effarizah Mohd Esah	effarizah@usm.my	1.5

No.	Course Learning Outcomes (CLO)	* PO	¹ LT	² SS	Assessment Method
1	Menjelaskan penyebaran patogen penting dan keadaan yang membolehkan pertumbuhan patogen dalam makanan. <i>Explain the spread of important pathogens in food and situation for growth in food.</i>	1	C2		Test (13), Assignment (03)
2	Menerangkan kaedah-kaedah yang sesuai untuk mencegah, memusnahkan dan merencat pertumbuhan patogen. <i>Describe suitable methods to prevent, destroy and inhibit the growth of pathogens.</i>	1	C2		Test (13), Assignment (03)
3	Menganalisis kejadian keracunan makanan berdasarkan fakta kes. <i>Analyse the incidence of food poisoning based on cases.</i>	3	C4	CTPS3	Test (13), Assignment (03), Presentation (53)

* Programme Outcome

¹ Learning Taxonomy

² Soft Skill

Week	Date	Lecturer	Topics	Delivery	Assessments	CLO
1	22/02/2021	-	-	-		-
	25/03/2021	Dr. Norlia	Course Briefing	Online: Synchronous		-
2	29/03/2021	Dr. Norlia	Introduction to foodborne pathogens	Online: Synchronous		CLO1/CLO2
	01/04/2021		<i>Cronobacter sakazakii</i>	Online: Synchronous		CLO1/CLO2
3	05/04/2021	Dr. Norlia	<i>Escherichia coli</i>	Online: Synchronous		CLO1/CLO2
	08/04/2021		<i>Escherichia coli</i>	Online: Synchronous		CLO1/CLO2
4	12/04/2021	Dr. Norlia	<i>Vibrio</i> spp.	Online: Synchronous		CLO1/CLO2
	15/04/2021		<i>Campylobacter jejuni</i> & <i>coli</i>	Online: Synchronous		CLO1/CLO2
5	19/04/2021	Dr. Norlia	<i>Yersinia enterocolitica</i>	Online: Synchronous		CLO1/CLO2
	22/04/2021		<i>Aeromonas</i> spp.	Online: Synchronous		CLO1/CLO2
6	26/04/2021	Dr. Norlia	Mycotoxigenic fungi	Online: Synchronous		CLO1/CLO2
	29/04/2021		Public holiday: Nuzul Al-Quran	-		-
7	03/05/2021	Dr. Norlia	Norovirus	Online: Synchronous		CLO1/CLO2
	06/05/2021		Hepatitis A virus, Rotavirus	Online: Synchronous		CLO1/CLO2
8	MID-SEMESTER BREAK					
9	17/05/2021	Dr. Effarizah	Outbreak investigation	Online: Synchronous		CLO3
	20/05/2021		Identification methods	Online: Synchronous		CLO3
10	24/05/2021	Dr. Effarizah	<i>Salmonella</i> spp.	Online: Synchronous		CLO1/CLO2
	27/05/2021		<i>Bacillus cereus</i>	Online: Synchronous		CLO1/CLO2
11	31/05/2021	Dr. Effarizah	<i>Clostridium perfringens</i>	Online: Synchronous		CLO1/CLO2
	03/06/2021		<i>Clostridium botulinum</i>	Online: Synchronous		CLO1/CLO2
12	07/06/2021	Dr. Effarizah	<i>Listeria monocytogenes</i>	Online: Synchronous		CLO1/CLO2
	10/06/2021		<i>Staphylococcus aureus</i>	Online: Synchronous		CLO1/CLO2
13	14/06/2021	Dr. Effarizah	Protozoa & Helminth	Online: Synchronous		CLO1/CLO2
	17/06/2021	Dr. Effarizah Dr. Norlia	Test 1 (MCQ) Presentation slide submission	Online: Synchronous	Test (20%)	CLO1/CLO2/CLO3
14	21/06/2021	Dr. Effarizah Dr. Norlia	Presentation (Outbreak investigation)	Online: Synchronous	Presentation (10%)	CLO3
	24/06/2021		Presentation (Outbreak investigation)	Online: Synchronous		

15	28/06/2021	Dr. Effarizah Dr. Norlia	Assignment submission: (Outbreak investigation report)		Assignment 1 (20%)	CLO3
	01/07/2021	Dr. Effarizah Dr. Norlia	Assignment submission (Essay)		Assignment 2 (10%)	CL1/CLO2
16	REVISION WEEK					
17	12/07/2021	Dr. Effarizah Dr. Norlia	Test 2 (Essay)	Online: Synchronous	Test (30%)	CLO1/CLO2/CLO3
	15/07/2021	Dr. Effarizah Dr. Norlia	Assignment submission: (Infographic)		Assignment 3 (10%)	CLO3
18	19/07/2021					
	22/07/2021					
19	26/07/2021					
	29/07/2021					
20-29	SEMESTER BREAK					

40% EW component

Final Examination (0%)





Question No.	Topics	CLO	Lecturer
1	Not applicable		
2	Not applicable		
3	Not applicable		
4	Not applicable		

Coursework Assessment (100%)

Note: The final examination has been replaced by coursework assessment only

	Jenis	Kod	%
(i)	Tugasan	03	30
(ii)	Pembentangan	53	10

	Jenis	Kod	%
(iii)	Ujian	13	20

Prepared by:	Endorsed by:	Approved by:	Archived by:
Course Coordinator	Program Chairman	Dean	Asst. Registrar
			
Dr. Norlia Mahror	Prof. Dr. Fazilah Ariffin	Prof. Dr. Norli Ismail	Pn. Rasslene Rass Rasalingam
Date: 05/04/2021	Date: 6/4/2021	Date: 6/4/2021	Date: 6/4/2021

