

Course Syllabus (Academic Year 2021)

Food Technology Program, Kanchanaburi Campus, Mahidol University

1.	Course No. and Title	: KAFT 353	Food Safety and Sa	anitation
	Credit (study hours)	: 3 (3-0-6)		
2.	Program Name	: Bachelor of Sc	ience in Food Techr	nology
3.	Course Module	: Specialized/Specific core		
	Pre-requisite	: KAFT 237		
4.	Class Semester	: 🗹 1 st Semeste	er \Box 2 nd Semester	Academic Year 2021
5.	Class Schedule & Venue	: Every Friday 9:	00-12:00 Online via	WebEx
6.	Class Coordinator	: Jarupat Luecha	a, Ph.D.	
		Email : <u>jarupat.l</u>	<u>ue@mahidol.edu</u>	

7. Course Description

Basic knowledge of food safety, regulations and requirements for food safety; effects of food processing on food safety; hygiene in food production in food factory, safety and sanitation control in the food production processes and in food products; good manufacturing practices (GMP), hazard analysis and critical control point (HACCP), risk assessment of different food types; critical thinking

8. Course Objectives / Course Learning Outcomes (CLOs)

No.	Objectives / CLOs	Expected Skills / Knowledge			
110.	Objectives / CLOS	Specific	Generic	Knowledge	PLOs
8.1	Explain principle of good	S2: Skill in controlling	G1: Decision making	K2: Food chemistry	1
	hygiene and safety in	food production	G3: Ethics	K3: Food processing	
	food processing and	process	G4: Associating skill	K6: Food engineering	
	apply food technology				
	knowledge in food			K8: Food microbiology	
	hygiene systems.				
8.2	Explain and discuss the	S8: Skill in judging food	G4: Associating skill	K2: Food chemistry	1,4,5
	impacts or influences of	quality based on	Critical thinking skill	K3: Food processing	
	food processing	provided data			

	techniques, food			K6: Food engineering	
	additives, and			K8: Food microbiology	
	microorganisms on food			Ko. FOOD MICTODIOLOgy	
	safety from scientific				
	viewpoint				
8.3	Explain and discuss risk	S8: Skill in judging food	G4: Associating skill	K2: Food chemistry	1,4,5
	assessment systems used	quality based on	G5: Business	K3: Food processing	
	in some food production.	provided data	awareness	K6: Food engineering	
				K8: Food microbiology	
				K11: Logistic	
				K14: Global& national trend &	
				policy	

9. Class Instructor List

9.1	Ronnachai Yoddumnern	(RY)	Email : ronnachai_y@hotmail.com
	อ.รณชัย ยอดดำเนิน		
9.2	Assistant Professor Plaimein Amnuaychee	wa (PA)	Email : plaimein.a@sci.kmutnb.ac.th
	ผ.ศ. ดร.ปลายมีน อำนวยชีวะ*		
9.4	Jarupat Luecha, Ph.D.	(JL)	Email : jarupat.lue@mahidol.edu
	อ.ดร.จารุภัทร ลือชา		

* Invited speaker

10. Course Outline

Week	Date	Contents	CLOs	Teaching & Learning	Instructor
1	13 Aug 2021	Food safety: Concept, Definition and Elements of food safety management	8.1	Online lecturing and	RY
2	20 Aug 2021	Consumer awareness, Ethics of food producer	8.1	assignment and case	RY
3	27 Aug 2021	Hygienic practice in primary production	8.1	studies	RY
4	3 Sep 2021	Hygienic practice in food processing	8.1-8.2		RY
5	10 Sep 2021	Plant layout and design	8.1-8.2		RY

Week	Date	Contents	CLOs	Teaching & Learning	Instructor
6	17 Sep 2021	Principle and system in food safety management (GMP, HACCP)	8.1, 8.3		RY
7	24 Sep 2021* Holiday Mahidol Day	Human factors and Personal hygiene	8.1-8.2		RY
8	1 Oct 2021	Thermal and non-thermal treatment in food safety	8.1-8.2		JL
9	8 Oct 2021	Management of chemical hazards	8.2-8.3		JL
10		Mid-term Examination (11-15 Oct 2021 At	Kanchanabur	i Campus)	
11	22 Oct 2021	Management of microbiological hazards	8.2-8.3	Online	RY
12	29 Oct 2021	Management of food allergen 1	8.2-8.3	lecturing and assignment	PA
13	5 Nov 2021	Management of food allergen 2	8.2-8.3	and case studies	PA
14	12 Nov 2021	Incident and crisis management	8.2-8.3	- studies	RY
15	19 Nov 2021	Presentation I Food safety management in Milk and Dairy products	8.2-8.3	Online presentation and discussion/ report submission	All staffs
16	26 Nov 2021	Presentation II Food safety management in meat products	8.2-8.3	Online presentation and discussion/ report submission	All Staffs
17 18	Final Examination (29 Nov- 9 Dec 2021)				

*TBA= To be announced

11. Course Assessment

					Weight
No.	Methods / Activities	Regulations	CLOs	Week	Distribution
					(%)
11.1	Midterm Examination	Open-book examination	8.1-8.3	1-7	38.5
11.2	Final Examination	Open-book examination	8.1-8.3	8-9, 11- 14	33
11.3	Term project	Assessed using rubric	8.1-8.3	15-16	20
11.4	Class participation	Instructor evaluation of class participation		1-16	8.5
				Total	100

12. Grading System

Class' av	verage score < 75.00 %	Class' av	verage score ≥ 75.00%		
Grade	Score	Grade	Score		
А	≥ 80.00 %	A	≥ 85.00 %		
B+	75.00 – 79.99%	B+	80.00 - 84.99%		
В	70.00 – 74.99%	В	75.00 – 79.99%		
C+	65.00 – 69.99%	C+	70.00 – 74.99%		
С	60.00 - 64.99%	С	65.00 – 69.99%		
D+	55.00 - 59.99%	D+	60.00 - 64.99%		
D	50.00 - 54.99%	D	55.00 - 59.99%		
F	< 50.00 %	F	< 55.00 %		

☑ Criterion-referenced evaluation

☑ Norm-referenced evaluation

13. References

Yasmine Motarjemi and Huub Lelieveld. Food safety management: A practical guide for the food industry. Acade,oc Press. Waltham, MA. 2014.

Paul L Knechtges. Food Safety: Theory and Practice. Jones & Bartlett Learning: Burlington, Mass, 2011.