Course Description Form

1. Course Name:

Liquid Dairy Products

2. Course Code:

LIDP374

3. Semester / Year:

First autumn semester 2023-2024

4. Description Preparation Date:

2024\2\1

5. Available Attendance Forms:

In presence

6. Number of Credit Hours (Total) / Number of Units (Total)

2 theoretical + 3 practical / 3.5 units

7. Course administrator's name (mention all, if more than one name)

Name: M.D. Zaman Nadhim Taher

Email: M.D. Saif Ali

8. Course Objectives

Course Objectives

theoretical:

Enabling the student to understand and absorb what is related to dairy principles

And its relationship to the dairy industry and its preservation

- Enabling the student to know the most important methods of preserving milk
- Enabling the student to become familiar with the most important sources of contamination in milk
- Empowering the student with the ability to detect types of spoilage in milk
- The student can judge the types of milk and how quickly it spoils

9. Teaching and Learning Strategies

.... practical:

Enabling the student to become familiar with the most important laboratory methods for detection and to become familiar with the most important analytical methods for analyzing milk products

Strategy

theoretical:

- -Interactive lecture
- Brainstorming
- Dialogue and discussion
- Assigning tasks and reporting
- Presentations of models of milk spoilage due to microbial contamination
- He is assigned to prepare a diligence report and discuss it with the students

practical:

- Assigning group work to reveal leadership skills
- Assigning tasks and reporting for each experiment

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2Theoretical	theoretical:	theoretical:	theoretical:	Short
	3 practical	B1: The student Rules on Shows the relationship Positive and negative in between milk and Dairy product formulation practical: B1: The student takes different samples of milk Milk Definitions - Factors Affecting milk composition Pactors Affecting milk Definitions - Factors Affecting milk Dialogue style Direct Practical: Assigning tasks and reporting		assignments, and	
2	2Theoretical 3 practical	theoretical: C1 : The student gets to known Study and identify all Properties of	theoretical: Properties of milk Chemical and physical	theoretical: Methods Audio Writing style On	Short exams, assignments, and discussions

		Milk		the board	
		Practical:	Practical:	Dialogue	
		A1: The student learns how to take models and analyze them chemically	Chemical analysis of milk	Practical: Assigning tasks and	
		,		reporting	
3	2Theoretical 3 practical	theoretical: B2 : The student is	theoretical: Types of bacteria	theoretical: Methods	Short exams,
		judged Detection of pollutants With milk and products Practical: B2: The student tests certain types of milk for microbial content	in Milk and sources pollution With it Practical: measuring the microbial content of milk	Audio Writing style On the board Dialogue style Direct Practical: Assigning tasks and reporting	assignments, and discussions
4	2Theoretical 3 practical	theoretical: A2: The student is judged Work on defining Receiving Paths And distribution of milk practical: A2: The student uses strainers to purify the milk	theoretical: Prepare milk in Farm and milk receiving Practical: purify and filter impurities	theoretical: Methods Audio Writing style On the board Dialogue style Direct Practical: Assigning tasks and reporting	exams, assignments, and discussions
5	2Theoretical 3 practical	theoretical: C2 : The student experiences a process Collect milk from Animal breeders practical :	theoretical: Milk collection centers Practical: milk	theoretical: Methods Audio Writing style On the board	exams, assignments, and discussions
		B3: The student performs the	sorting	Dialogue style Direct	

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		process of sorting		Practical:	
		milk using a		Assigning	
		separator		tasks and	
				reporting	
6	2Theoretical	theoretical:	theory:	theoretical:	Short
	3 practical	A2 : The student	Adjusting the	Methods	exams,
	•	seeks	percentage of fat		assignments, and
		To Use a susskiesse	in milk	Audio	discussions
		To Use equations	(Dearson aguara)	Writing style On	discussions
		Mathematical and	(Pearson square)	the board	
		arithmetic To		the board	
		adjust milk fat	Practical:	Dialogue	
		Practical:	pasteurization	style Direct	
			and sterilization	Practical:	
		B4: The student	of milk	Assigning	
		learns about the		tasks and	
		methods of heat		reporting	
		treatment of milk			
7	2Theoretical	theory:	theory:	theoretical:	Short
	3 practical	B3 : The student	Purification of	Methods	exams,
	•	tries	milk from		assignments, and
		Lica Durification	Impurities and	Audio	,
		Use Purification and filtration	cooling	Writing	discussions
		methods And use		style On the board	
		devices Cooling		the board	
		devices cooling	practica: milk	Dialogue	
		practical :	adulteration	style Direct	
		B5: The student		Practical:	
		discusses the types		Assigning	
		of milk		tasks and	
		adulteration		reporting	
8	2Theoretical	theory:	theory:	theoretical:	Short
	3 practical	A3 : The student	Delivery of milk	Methods	exams,
		works on to set	to the laboratory	Audio	assignments, and
		Receiving	And quality	Writing	discussions
		Paths And	control	style On	
		distribution of		the board	
		milk		Dialogue	
			practical:	style Direct	
		practical :	naturalization of		
		A3: The student	milk	Practical:	
		makes a		Assigning tasks and	
		comparison		rasks allu	

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		between regular		reporting	
		and naturalized			
		milk			
9	2Theoretical	theory:	theory:	theoretical:	Short
	3 practical	A4 : The student	Milk	Methods	exams,
		tries	homogenization	Audio	assignments, and
		Use pasteurization	and Thermal	Writing	discussions
		methods And	transactions	style On	
		sterilize milk And		the board	
		keep it for the		Dialogue	
		longest time		style Direct	
		practical :	Practical: grafted milk products	Practical:	
		A4: The student	, min products	Assigning	
		manufactures		tasks and	
		flavored milk		reporting	
10	2Theoretical	theory:	theory:	theoretical:	Short
	3 practical	A5 : The student	Sweetened	Methods	exams,
		tries	condensed	Audio	assignments, and
		Manufacture of	Milk	Writing	discussions
		condensed milk		style On	0.100000010110
		Sweetened Using		the board	
				Dialogue	
		modern methods	Practical:	style Direct	
		practical :	whipped cream	Practical:	
		A4: The student		Assigning	
		tests types of		tasks and	
		whipped cream		reporting	
11	2Theoretical	theory:	theory:	theoretical:	Short
	3 practical	A6: The student	Flavored milk	Methods	exams,
		tries	products	Audio	assignments, and
		Manufacture of		Writing	discussions
		grafted milk By		style On	
		modern methods	practical: cheese	the board	
		practical :	making	Dialogue style Direct	
		B6: The student			
		makes types of		Practical: Assigning	
		cheese		tasks and	
				reporting	
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12	2Theoretical	theory:	theory:	theoretical:	Short
	3 practical	A7: The student tries Manufacture of dried dairy By modern methods practical: A6: The student learns about methods of manufacturing fermenters	Dried Dairy Products practical: manufacturing lactic ferments	Methods Audio Writing style On the board Dialogue style Direct Practical: Assigning tasks and reporting	exams, assignments, and discussions
13	2Theoretical 3 practical	theory: A1: Student runs circlesDiscussion regarding safety Milk and ways to protect it Practical: A6: The student learns about the factors related to butter production	theory: Report and discuss Practical: making butter	theoretical: Methods Audio Writing style On the board Dialogue style Direct Practical: Assigning tasks and reporting	short exams, assignments, and discussions
14	2Theoretical 3 practical	Theory: A8: Student identification of health risks Its impact on human health and the impact of negligence on Public Health practical: A6: The student makes the game	My theory: A field visit to some Dairy factories and submit a report Common microorganisms In milk contamination practical: making gems	theoretical: Methods Audio Writing style On the board Dialogue style Direct Practical: Assigning tasks and reporting	exams, assignments, and discussions
15	2Theoretical 3 practical	Theory: A8: Student	theory: A field visit to	theoretical: Methods	Short exams,

			identification of health risks Its impact on human health and the impact of negligence on Public Health practical: A3: The student determines the validity of the milk samples	some Dairy factories and submit a report Common microorganism In milk contamination Practical: Solve a problem	Audio Writing style On the board Dialogue style Direct Practical: Assigning tasks and reporting		nments, and ussions
11. Course Evaluation							
T	T Calendar methods		Calendar date (one week)	Class		Relative weight %	
1	Final theoretical report + practical experience report			My theory is week 15 My work week is 1- 15	7theoretical + 6 practical		13%
2	2 Short test (1) Quiz			week (3)	4theoretica 2 practical	4theoretical + 2 practical	
3	3 Midterm Exam (theoretical and practical)			week (9)	10theoretic	10theoretical + 5 practical	
4	Short test 2 Quiz			week (12)	4theoretica	l +	20%

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily

Final practical test

اختبار نظري نهائي

المجموع

2 practical

20%

40%

100%

20

40

100

Practical exam week

A week of

theoretical exam

oral, monthly, or written exams, reports etc				
12. Learning and Teaching Resources				
Required textbooks (curricular books, if any)	Books on liquid dairy products			
Main references (sources)				
Recommended books and references (scientific journals,	Liquid Dairy Products Book			
reports)	(1982)			
Electronic References, Websites	The World Health Organization			
	and the Food and Drug Administration			
	American			

Instructor of theoritical part

Instructor of practical part

Dr. Zaman nadhim taher

Saif Ali

Chairman of the scientific committee

Head of the department of Food science

Prof. Dr. Moafak mahmood ahmed

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