Course Description Form

1. Course Name:

Butter and ice cream

2. Course Code:

BUIC471

3. Semester / Year:

Second semester(spring)/ 2023-2024

4. Description Preparation Date:

1/2/2024

5. Available Attendance Forms:

Attendance lesson

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

30 hours/30 units+ 45 hours/

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

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8. Course Objectives

Theoretical:

- * Enabling the student to understand what is related to the manufacture of butter and ice cream and to identify the widespread types of them
- * Enabling the student to become familiar with the most important and common defects of butter and ice cream
- * The student can judge different types of butter and ice cream

practical:

- Enabling the student to learn about th most important laboratory methods for producing butter and ice cream

9. Teaching and Learning Strategies

Theoretical:

practical:

Assigning group work and revealing

- Interactive lecture
- Brainstorming
- Dialogue and discussion
- Assigning tasks and reporting
- Presentations of samples of cheese
- The student is assigned to prepare a report entitled:

His diligence prepares him for discussion wit students

students' skills - assignment Assignments to write a report for each experiment.

10. Course Structure

Week	Hours	Required Learning	Name of Unit or subject	Learning method	Evaluation
		Outcomes			method
First	2Theoretical	Theoretical:	Theoretical:	Theoretical:	Short exams,
	3Practical	a 1/ Recognizes butter	A historical overview	Auditory methods	
		Its standard recipes	the butter industry -	Writing style on	or discussions
		_	definition	the blackboard	
		Practical	Butter	Direct dialogue st	
			practical	practical :	
		Explains the scientific ba		Assigning tasks a	
		of the milk sorting proc		reporting	
Second	2Theoretical	Theoretical:	Theoretical:	Theoretical:	Short exams,
	3Practical	b 1/ It enumerates	General steps for	Auditory methods	
		principles on wh	making butter/sortin	<u> </u>	or discussions
		separation equipment designed		the blackboard	
		uesigneu		Direct dialogue	
		Practical	practical	style	
		b 7/ Proves the method for		practical :	
		controlling the fat percent		Assigning tasks a	
		in cream		reporting	
Third	2Theoretical	Theoretical:	Theoretical:		Short exams,
	3Practical	C1/ Explains the benefit		Auditory methods	
		of pasteurization	cream intended for	Writing style on	or discussions
		For cream	making butter	the blackboard	
		And its methods and the		Direct dialogue	
		way to shake it	practical	style	
		practical	Chemical tests for	practical:	
		b 8/ Proves the method	cream	Assigning tasks a	
		determining the acidity		reporting	
- I		cream			
Fourth	2Theoretical 3Practical		Theoretical:		Short exams,
	3F Factical	a 2/ He lists the		Auditory methods	_
		disadvantages of butter			or discussion
		terms of flavour, textur	_	the blackboard	
		and colour	Cream calculations.	Direct dialogue	
		practical		style	
		b 9/ It links calculations t		practical:	
		estimate the amount of		Assigning tasks a	
		cream and the amount		reporting	

		milk needed to produce			
Fifth	2Theoretical	Theoretical:	Theoretical:	Theoretical:	Short exams,
. 11111	3Practical	b 2/ Enumerates the raw			
		materials used in the	Margarine	Auditory methods	
			practical	Writing style on	or discussions
		manufacture of margar	Cream calculations	the blackboard	
		practical		Direct dialogue	
		c5/ It is recommended to		style	
		adjust the fat percentag		practical:	
		in cream or milk		Assigning tasks a	
				reporting	
Sixth	2Theoretical	Theoretical:	Theoretical:	Theoretical:	Short exams,
	3Practical	a 3/ Explains how to mak	Desirable qualities o	Auditory methods	
		Margarine	margarine	Writing style on	or discussion
		practical	practical	the blackboard	
		c 6/ Shows the alkalis us	Testing the acidity of	Direct dialogue	
		in neutralizing the acidi	cream and adjusting	style	
		of cream	the acidity with	practical :	
			different alkalis	Assigning tasks a	
				reporting	
Seventh	2Theoretical	Theoretical:	Theoretical:	1 0	Short exams,
	3Practical	a 4/ Mentions the method	Ghee	Auditory methods	
		making ghee	practical	Writing style on	or discussion
			Butter industry	the blackboard	
		practical	Dated Madestry	Direct dialogue	
		c7/ Applies the steps of		style	
		making butter and ice		practical:	
		cream		Assigning tasks a	
		Cicam		reporting	
eighth	2Theoretical	Theoretical:	Theoretical:		Short exams,
Olginai	3Practical	a 5/ He is familiar with a	A historical overvie		
		types of milk ice cream	of milk ice cream -	Writing style on	or discussion
		types of mink ice cream	Definition of milk ice	•	of discussion
				Direct dialogue	
		nuatical	cream	•	
		practical	nuactical	style	
		c8/ Proves Butter	practical	practical:	
		calculations.	Butter industry	Assigning tasks a	
Ninth	2Theoretical	Th	TDI	reporting	Cla cut
INIIIIII	3Practical	Theoretical:	Theoretical:		Short exams,
	31 ractical	C2/ Calculates the calor	Nutritional value of	Auditory methods	
		obtained from milk	yogurt ice cream	Writing style on	or discussion
		cream	practical	the blackboard	
			Ghee (free fat)	Direct dialogue	
		practical		style	
		c9/ Shows how to ma		practical:	
		ghee		Assigning tasks a	
				reporting	
Tenth	2Theoretical	Theoretical:	General steps for		Short exams,
	3Practical	b 3/ List the ingredients	Ingredients used in t	Auditory methods	
		involved in making mill	manufacture of dair	Writing style on	or discussions
		ice cream	and non-dairy ice	the blackboard	
			cream	Direct dialogue st	
_					

		practical	practical	practical :	
		d 1/ Calculate the purity	Creamy ice cream	Assigning tasks a	
		of ghee	Creamy ice cream	reporting	
Eleventh	2Theoretical	Theoretical:	Theoretical:	1 0	Short exams,
	3Practical	b 4/ Determine the	Properties of the	Auditory methods	
		properties of ice cream	mixture	Writing style on	•
		mixture	practical	the blackboard	or discussions
		mature	Calculate the	Direct dialogue st	
		practical	ingredients of the	practical:	
		d 2/ He experiments with	creamy ice cream	Assigning tasks a	
		making creamy ice crean	mixture	reporting	
Twelveth	2Theoretical	Theoretical:	Theoretical:		Short exams,
	3Practical	b 5/ Preparation steps	How to make milk ic	Auditory methods	assignments,
		Ice cream mix	cream	Writing style on	_
		practical	practical	the blackboard	
		d 3/ Calculate the	Calculate the	Direct dialogue st	
		components of a creamy	ingredients of the	practical :	
		ice cream mixture	creamy ice cream	Assigning tasks a	
		(Pearson	mixture	reporting	
		square)			
Thirteenth	2Theoretical	Theoretical:	Theoretical:		Short exams,
	3Practical	C3/ List the disadvanta	Disadvantages of	Auditory method	
		of ice cream	milk ice cream	Writing style on	or discussions
		In terms of flavour, text	practical	the blackboard	
		and colour		Direct dialogue	
			Calculate the ingredie	_	
		practical	of the creamy ice crea	_	
		d 4/ Calculate	mixture	Assigning tasks	
		components of a creamy cream mixture (sim		and	
		mixture calculation)		reporting	
Fourteenth	2Theoretical	Theoretical:	Theoretical:	Theoretical:	Short exams,
	3Practical	C4/ He explains the	Theoretical.	Auditory method	
		Soft ice cream	Soft ice cream	Writing style on	
		practical	/sherbet/water ice crea		of discussion
		d 5/ Experience industry	practical	Direct dialogue	
		Water ice cream.	Water ice cream?	style	
				practical :	
				Assigning tasks	
				and	
				reporting	
	2Theoretical	Theoretical:	Theoretical:		Short exams,
Fifteenth		1 4/0		Auditory method	assignments,
Fifteenth	3Practical	e 1/ Communicates wit			_
Fifteenth	3Practical	one of the laboratories	Solve the problem	Writing style on	or discussions
Fifteenth	3Practical	one of the laboratories Dairy producing	Solve the problem		or discussions
Fifteenth	3Practical	one of the laboratories Dairy producing practical	Solve the problem	Writing style on	or discussions
Fifteenth	3Practical	one of the laboratories Dairy producing practical e 2 / Communicates wit	_	Writing style on the blackboard	or discussions
Fifteenth	3Practical	one of the laboratories Dairy producing practical	_	Writing style on the blackboard Direct dialogue	or discussions

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc . The average is calculated from 25 for theory, as well as for practical, with an average of 15.

12. Learning and Teaching Resources		
Required textbooks (curricular books, if any)	Book Butter and Ice Cream (Al-Samarrai and others)	
Main references (sources)	Dairy ice cream (slim)	
Recommended books and references (scientific	Many books and magazines, including Technolo of Cheese Making Journal of Dairy Science	
journals, reports)	of Cheese Making Journal of Dairy Science	
Electronic References, Websites	Internet sites such as Google	

Instructor of theoritical part

Instructor of practical part

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