Republic of Iraq

The Ministry of Higher Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala College: Agriculture

Department: Animal production

Stage: second

Lecturer name: Dhilal Mehdi Qualification: Assistant Professor

Place of work: Coll. Of

Agriculture

Flow up of implementation celli pass play

Course Instructor	Assist. Prof. Dhilal Mehdi Abdul-kadir Alrubaye					
E-mail	dhilalmahdi@uodiyala.edu.iq					
Title	Dairy principles					
Course Coordinator	Spring Course \ 2024-2025					
Course Objective	The goal is to learn the student to how to benefit from milk in the					
	manufacture of various food products, As Yogurt, Butter, Cream Chocolate milk					
	and Cheese.					
Course Description	The student shoul learn what is the science of the Dairy products- What tests are					
	performed on milk upon receipt? how to benefit from milk in the manufacture of					
Textbook	various food products, As Yogurt, Butter, Cream Chocolate milk and Cheese.					
TEXTOOOK	1. Al-Shabibi.M.; Shukri, M.; Touma, S. and Al – Takriti .1999. Principles of					
	dairy science. The Ministry of Higher education					
	2. Al- Takriti ,H. and Alkual . K. 1984. Principles of dairy manufacturing. The					
	Ministry of Higher education 3.Jasem, H. 1987. Impact of processing on milk. The Ministry of Higher education 4. Muhanna, N. 2002. Manufacturring and functional properties of milk proteins. Egypt 5. Faculty members of the department of dairy science and technology. Fundamentals of dairy science and technology. College of					
	Agriculture, Egypt					
	6. Abu-foul, N.2009. Dairy products industry. Gaza					
	 Al-Khafaji. Z. Biology of microscopic food. Metri, W. 2022. Introduction of food science (dairy products) Al-Omar.2014.Dairy health and technology. Al-baath university publication Al-Hawari, M. Dairy technology and products. College of Agriculture, 					
	Egypt					
	11. Hussein ,S.	2022. Dairy prin	022. Dairy principles. College of Agriculture, Egypt			
	12. Hammad, M. 2020. Dried and condensed milk. College of Agriculture, Egy					
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam	
	20%	15%	5%		60%	
General Notes						

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Flow up of implementation celli pass play

The state of the s						
week	Date	Topics Covered	Practical Part			
1	1st week	Teaching the student the concept of dairy science and	Teaching the student the concept of			
1		how to secrete milk from animals	milk			
2 2 nd week	2nd wools	Introducing the student to the concept of milk, its types,	Types of simple and complex milk			
	pasteurized, sterilized and dried, its components and					
		nutritional value	samples			
		Introduce the student to the genetic and environmental	Tests conducted on milk before it is			
3	3rd Week		received in factories and dairy			
	factors affecting the composition of milk	plants, How to check for in milk				
4 4th Week	4th Wools	The student introduces the properties of milk and studies	What's tests are done on milk			
	them	vy nat 8 tests are done on milk				
5	5 th Week	Defining the students diseases transmitted in milk	How to estimate acidity in milk			
6 6 th Week	Introducing the student to the methods used to prevent	What is meant by natural acidity and advanced acidity in milk				
	the transmission of diseases through milk and its					
	products to humans					
7 7 th Week	The student gets to know how milk is prepared in dairy	Microbiological tests on milk				
	/ WCCK	factories	When objects tests on link			
	The student will learn about the effect of temperature					
8	8 th Week	pasteurization, and education on milk in terms of its	Milk protein stability tests			
		nutritional value and sensory properties				
9	9 th Week	The student gets to Know the microorganisms present	How to estimate the fat content of			
) WEEK	milk	milk			
10 10 th Week	The student will Know how to modify the percentage of	Yogurt making				
	fat in milk					
11 11 th Week	11 th Week	The student will Know how to naturalize milk and what	Butter making			
	11 ,, con	is meant by naturalized milk				
12 12 th Weel	12 th Week	For the student to Know how cream is manufactured and	Chocolate milk manufacturing			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	the factors affecting its manufacture				
13	13 th Week	The student will Know how to manufacture Yogurt and	Cheese making			
		Cheese				
14	14 th Week	The student will be familiar with the secondary	Milk adulteration. How to detect it.			
		components of milk; milk sorting, Whey, and Churning				
15	15 th Week	Exam	Exam			

Instructor's signature

Asst. prof. Dhilal Mehdi Abdul-kadir

15 / 1 / 2025

Dean Signature:

Prof. Dr.Raaed Ibrahim Khalil

15/1/2025