



Course Specification of Dairy and Dairy product <u>Hygiene</u>

	I. Course Identification and General Information:					
1	Course Title:	Dairy and Dairy product Hygiene				
2	Course Number & Code:	PA576				
		С.Н				Total
3	Credit hours:	Theoretical	Practical	Training	Seminar	Total
		2	1	0	0	3
	Study level/		Fifth Year: S	lecond Seme	ester	
	semester at					
4	which this					
	course is					
	offered:					
5	Pre –requisite (if	MI352, MI355, MI353, MI357				
	any):					
6	Co – requisite (if	None				
	any):	Bachelor's degree (B. Sc.) Veterinary medicine				
	Program (s) in	Bachelor	's degree (B.	Sc.) Veterin	ary medicii	ne
7	which the course is					
	course is offered:					
	Language of		Fr	nglish		
8	teaching the			igiisii		
Ŭ	course:					
	Location of	·······································	Faculty of veterinary medicine			
9	teaching the		5	5		
	course:					
10	Prepared by:	Far	is Mohamme	ed Ahmed A	l-zailay	
11	Date of					
11	approval:					

II. Course description:

نائب العميد لشئون الجودة عميد الكلية عميد مركز التطوير وضمان الجودة رئيس الجامعة الجامعة د. عبدالرقيب الشامي د. عبدالرؤف الشوكاني أ.د. هدى العماد أ.د. القاسم محمد عباس Faculty Of Veterinary Medicine



To provide students with basic knowledge of hygienic milk and dairy products; to gain the skills to analyze milk samples, dairy products.

To gain knowledge: about Composition of milk, Milk production and biosynthesis of milk, Nutritive value of milk, physical properties, milk constituents, Effect of diseases on Milk constituents, Dairy microbiology, Milk-borne diseases, clean milk production, heat treatment of milk, Quality assurance and production control, Criteria for evaluation of milk and dairy products.

To gain Skills: about assisted detection of adulteration of milk and dairy products, detection of abnormal milk, detection of physical properties, tests for hygienic quality, chemical analysis of milk and dairy products.

Π	III. Intended learning outcomes (ILOs) of the course:					
(A)	(A) Knowledge and Understanding:					
Aligni	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Knowledge and Understanding.					
	Program Intended Learning Outcomes (Sub- PILOs) in:Course Intended Learning Outcomes (CILOs) in:Knowledge and UnderstandingKnowledge and Understanding					
After completing this program, students will be able to:						
A1-	Demonstrate a sound knowledge and understanding of concepts and principles of general culture, basic science, and that support veterinary medicine.	a1-	Outline the chemical composition and microbiology of dairy products.			
A2-	Clarifies basic concepts, principles, and theories related to animal production, animal health and nutrition, behavior management, breeding and care that is related to animal ethical codes.	a2-	Shows knowledge and understanding about milk-borne pathogens and spoilage organisms			
Tea	aching And Assessment Metho	ds Fo	or Achieving Learning Outcomes:			
1	Alignment of Learning Outcomes of Kn A		ge and Understanding to Teaching and nent Methods:			

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Co	urse Intended Learning Outcomes (CILOs) in Knowledge and	Teaching strategies/methods to	Methods of assessment
	Understanding	be used	
comp	leting this course, students will be able to:	 Lecture 	 Written
a1-	Outline the chemical composition	 Dialogue and 	examination
	and microbiology of dairy products.	discuss	 Quiz
a2-	Shows knowledge and understanding about milk-borne	 Practical practice 	 Oral examination
pathogens and spoilage organisms	 Scientific visits 	 Practical 	
		 Field clinical 	examination
		training	 Activities
		 brain storming 	 Reports evaluation
		■ self-learning	

(B)	(B) Intellectual Skills:				
Alignr	ment of Course Intended Learning Outcomes (CILOs) to Pr	rogram	Intended Learning Outcomes (PILOs) in: Intellectua	
Pro	Program Intended Learning Outcomes (Sub- PILOs) in Intellectual skillsCourse Intended Learning Outcomes (CILO Intellectual Skills				
After	After completing this program, students will be able to: After completing this course, students will be able to:				
B2-	Predicts an appropriate medical diagnosis for the most common disease states through analysis of clinical story data and the results of medical examinations of a sick animal.	b1-	Judge the different defemilk products	cts which present the	
B3-	Design appropriate nursing and treatment care plans for different diseases that affect animals, prioritizing treatment.	b2-	b2- Discuss the chemical pollutants & suitable measures.		
	Teaching And Assessment Metho	ds F	or Achieving Learni	ing Outcomes:	
Align	ment of Learning Outcomes of Intellectual Skill	ls to T	eaching Methods and As	sessment Methods:	
Со	Course Intended Learning Outcomes (CILOs) in Intellectual Skills.Teaching strategies/methods to be usedMethods of ass ass			Methods of assess	
After	completing this course, students will be able to:	■ D	ialogue and discuss	 Written examinat 	
b1-	Judge the different defects which present the milk & milk products	■ L	ecture	 Oral examination 	

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,			محمد عباس



ſ	b2-	Discuss the chemical pollutants & suitable	 Practical practice 	 Practical examination
l		control measures.	 Problem solving 	 Performance noti
l			 Working in groups 	 Achievement file
I			 Scientific visits 	 Reports evaluation
I			 Field clinical training 	 Proposal evaluati
l			 Simulation and demos 	
l			Researches and projects	

(C)	(C) Professional and Practical Skills:				
Align	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Professional and Practical Skills				
	Program Intended Learning Outcomes (Sub- PILOs) in Professional and Practical SkillsCourse Intended Learning Outcomes (CILOs) in Professional and Practical Skills				
After completing this program, students will be able to: After completing this course, students will be able to:				ents will be able to:	
C1-	Accurately records a comprehensive pathological story of a sick animal including information on healthy behavior and the necessary checks.	c1-		collect and transfer the chemical examination of	
C4-	Treat animal patients safely and effectively taking into account the evaluation of the results, the appropriate modification of the treatment plan and the accurate description of the appropriate medications.	c2-	Perform full microbiolog and milk products.	cical examination of milk	
	Teaching And Assessment Met	thods	s For Achieving Learni	ng Outcomes:	
	ment of Learning Outcomes of Professional and Prac				
	Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills		Teaching strategies/methods to be used	Methods of assessment	
After	completing this course, students will be able to:		 Practical practice 	- Written examinations	
c1- c2-	Apply ideal methods to collect and transfe samples for physical and chemical examination milk & milk products.	on of	 Problem solving Working in groups Problem solving 	Oral examinationsPractical examinationPerformance notice	
C2-	Perform full microbiological examination of and milk products.	IIIIK	6		

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	 Scientific visits 	- Achievement file
	Case study	- Reports evaluation
	 Field clinical training 	- Proposal evaluation
	 Simulation & demos 	
	Researches and	
	projects	

General / Transferable skillsGeneral / General / Transferable skillsAfter completing this program, students will be able to:After completingD2-Develops his scientific, professional and research capabilities and follow what is emerging in hisd1-Develops his scientific, professional and research behaviorsbehaviors	nded Learning Outcomes (C eneral / Transferable skills this course, students will be able t ate appropriate professional a
Transferable skills Transferable skills Course Inter General / Transferable skills General / Transferable skills General / Transferable skills After completing this program, students will be able to: After completing this scientific, professional and research capabilities and follow what is emerging in his d1- Demonstration	nded Learning Outcomes (C eneral / Transferable skills this course, students will be able t ate appropriate professional a
Program Intended Learning Outcomes (PILOs) in General / Transferable skillsCourse Inter GeneralAfter completing this program, students will be able to:After completingD2-Develops his scientific, professional and research capabilities and follow what is emerging in hisd1-Develops his scientific, professional and research behaviorsbehaviors	eneral / Transferable skills this course, students will be able t ate appropriate professional a
General / Transferable skillsGeneral / General / Transferable skillsAfter completing this program, students will be able to:After completingD2-Develops his scientific, professional and research capabilities and follow what is emerging in hisd1-Develops his scientific, professional and research capabilities and follow what is emerging in hisbehaviors	eneral / Transferable skills this course, students will be able t ate appropriate professional a
After completing this program, students will be able to:After completingD2-Develops his scientific, professional and research capabilities and follow what is emerging in hisd1-Demonstr behaviors	this course, students will be able t ate appropriate professional a
D2-Develops his scientific, professional and research capabilities and follow what is emerging in hisd1-Demonstration	ate appropriate professional a
capabilities and follow what is emerging in his behaviors	
1	• • • • • • • • •
	in different practice situations
field of specialization and using computer	
applications and information and communication	
technology.	
D4- Works in normal conditions, crises and d2- Draw the	way by which he should be a
	y as a member of a team in the
	community.
	5
Teaching And Assessment Methods For Achie	ving Learning Outcome
Alignment of Learning Outcomes of General and Transferable skills to	o Teaching and Assessment Me
Course Intended Learning Outcomes (CILOs) in Teaching strate	gies/methods Methods of a
General and Transferable Skills to be u	ısed
After completing this course, students will be able to: Dialogue and	d discuss • Achievemen
d1- Demonstrate appropriate professional attitudes • Working in g	groups Reports eva
di Demonstrate appropriate professionar attitudes	
and behaviors in different practice situationsG2- Draw the way by which he should be able to work	sits Proposal ev
Brutt the trug of third he should be usite to thoma	and projects • Performanc
effectively as a member of a team in the delivery	
of services to community. • Self learning	Practical ex

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	Simulation and demos	
	 Problem solving 	

IV. Course Content:						
1 – Course Topics/Items:						
	a – Theoretical Aspe	ect				
Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Numbe r of weeks	Contact hours	
1	Introduction, Milk production	a1, a2, b1, b2, c1, c2	Nutritive value of milk, Biosynthesis	1	2	
2	Physical properties of milk	a1, a2, b1, b2, c1, c2		1	2	
3	milk constituents	a1, a2, b1, b2, c1, c2	Major Components	1	2	
4	Chemical composition	a1, a2, b1, b2, c1, c2	Minor Components	1	2	
5	Heat treatment of milk	a1, a2, b1, b2, c1, c2	Boiling, pasteurization & sterilization	2	4	
6	Milk-borne diseases	a1, a2, b1, b2, c1, c2		1	2	
7	Sources of contamination	a1, a2, b1, b2, c1, c2	Interior & Exterior of udder	1	2	
8	Mastitis and milk quality	a1, a2, b1, b2, c1, c2		1	2	
9	Residues and contaminants	a1, a2, b1, b2, c1, c2	Antibiotic Residues	2	4	
10	Drying of milk	a1, a2, b1, b2, c1, c2	Spray and Roller drying	1	2	
11	Concentrated milk	a1, a2, b1, b2, c1, c2	Sweetened & Unsweetened	1	2	
12	Clean milk production, HACCP system in dairy plants	a1, a2, b1, b2, c1, c2	detergent and sanitizer	1	2	
	Number of Wee	ks /and Units Pe	r Semester	14	28	

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	b- Training Aspect:					
Order	Training Tasks	CILOs (symbols)	Number of weeks			
1	Introduction, Sampling	a1, a2, b1, b2, c1, c2	1	2		
2	Physical & chemical examination	a1, a2, b1, b2, c1, c2	1	2		
3	Determination of keeping quality raw milk	a1, a2, b1, b2, c1, c2	2	4		
4	Detection the efficiency of heat treatment	a1, a2, b1, b2, c1, c2	1	2		
5	Standard plate count	a1, a2, b1, b2, c1, c2	1	2		
6	Mastitis and milk quality	a1, a2, b1, b2, c1, c2	1	2		
7	Isolation of pathogenic M.Os, fecal pollution and indicators M.Os	a1, a2, b1, b2, c1, c2	1	2		
8	Residues in milk	a1, a2, b1, b2, c1, c2	1	2		
9	Milk production examination	a1, a2, b1, b2, c1, c2	2	4		
10	Detection of preservatives in milk	a1, a2, b1, b2, c1, c2	1	2		
11	Detection of adulteration in milk	a1, a2, b1, b2, c1, c2	1	2		
12	Student activities: Dairy plants visits	a1, a2, b1, b2, c1, c2	1	2		
	Number of Weeks /and Units Per Semester					

V. Teaching strategies of the course:

• Lectures depending on the sharing efforts of the students and supported with macromedia and multimedia aids.

- Training visits to dairy farms as well as milk processing plants.
- Practical sections: Laboratory examination of milk, milk products, by chemical and microbiological methods.
- Self-learning (Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library).
- Summer training course.
- Assays and reviews.
- Discussion groups.

3-Assessment Methods:

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- Written examination: For assessment of knowledge, back calling and Intellectual skills.
- Practical examination: For assessment of practical and professional skill.
- Oral examination: For assessment of knowledge and Intellectual skills.
- Student activities: For assessment of knowledge and general and transferable skills.

	I. Schedule of Assessment Tasks for Students During the Semester:				
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
1	Participation, quizzes and assignments	2-14	10	10%	a1, a2, b1, b2, c1, c2
2	Mid-Term Exam	8	10	10%	a1, a2, b1, b2, c1, c2
3	Mid-Term Practical Exam	8	10	10%	a1, a2, b1, b2, c1, c2
4	Final Practical Exam	15	10	10%	a1, a2, b1, b2, c1, c2
5	Oral Exam	16	5	5%	a1, a2, b1, b2, c1, c2
	Final Exam	16	55	55%	a1, a2, b1, b2, c1, c2
	Total		100	100%	

II. Students' Support:	
Office Hours/week	Other Procedures (if any)
From Saturday to Wednesday at 8:00 a.m. till	Student can contact with me via e-
2 p.m.	mail

III.Learning Resource (MLA style or APA style)S:1-Required Textbook(s) (maximum two)

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• Dairy Science and Technology, Second Edition (Food Science and
Technology), 2005 P. Walstra, Jan T. M. Wouters, Tom J. Geurts
• Alan, H. Varnam, Jane P. and Sutherland: Milk and milk products. Chapman & H
Recommended Readings and Reference Materials
1- A.H.Varnam: Food borne pathogens. Wolfe publishing Ltd.
2- RK. Robinson: Modern dairy technology. Library of congress.
3- Sara Martimore and Carole Wallace: HACCP A practical approach.
4- Wilkie F. Harrigan: Laboratory methods in food microbiology. Academic press
limited.
Essential References
- Dairy microbiology Vol. I and II, 2nd, 1990edition, (Robinson, R.K)
- Marth and Steel (Applied dairy microbiology)
- Milk and milk products, 1997 (Sutherland & Varnam)
Electronic Materials and Web Sites etc.
- <u>WWW.PubMed.com</u>
- Intrnational of veterinary information services (IVIS)
- <u>www.Vet.net.com</u>
- journal of food protection
- Science Direct web site
Other Learning Material:
- Department notes: available for students to purchase from the department.
- White board, overhead projector and data show presentations used during
teaching.
- Laboratory, apparatus, Chemicals, glasses reagents and media, Kits

X.	Course Policies:
1	Class Attendance:
	Mandatory to attend all course lectures
2	Tardiness:
	Not allowed at all. Students must be in class or in the practical session 10
	minutes prior to the beginning of lectures or practical session
3	Exam Attendance/Punctuality:
	Attendance is mandatory; absence is accepted with valid excuse
4	Assignments & Projects:

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	All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse
5	Cheating:
	Not tolerated and may lead to EXPELLING the student from the program
6	Plagiarism:
	Not tolerated AT ALL and may lead to EXPELLING the student from the
	program
7	Other policies:
	1. All devices must be on silent or at least on vibration during
	lectures/labs
	2. Before any exam (written, oral) we must check student's identity
	(student's card, ID, passport). Without any of these documents, the
	student will not be allowed in the exam room.
	3. Any of type/ form of cheating is not allowed no matter what.
	4. Maintain silence during lectures/exam and disturbance is not allowed.
	For any questions students should raise their hand and wait for
	permission to talk.

<u>Course Plan of Dairy and Dairy product Hygiene</u>

X Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Faris M. A. Al-zailay	zailay Office Hours					
Location & Telephone No.	Dhamar Governorate 770667223	SAT	SUN	MON	TUE	WED	THU
E-mail	Farisvet4@gmail.com	8am 2pm	8am 2pm	8am 2pm	8am 2pm	8am 2pm	-

KI.	KI. Course Identification and General Information:					
1	Course Title:	Dairy and Dairy product Hygiene				

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2-	Course Number & Code:	PA576				
		C.H			Total	
3-	Credit hours:	Th.	Seminar	Pr.	F. Tr.	TOLAT
		2	-	1		3
4-	Study level/year at which this course is offered:	Fifth Year: Second Semester				
5-	Pre –requisite (if any):	MI352, MI355, MI353, MI357				
6-	Co –requisite (if any):	None				
7-	Program (s) in which the course is offered	Bachelor's degree (B. Sc.) Veterinary medicine				
8-	Language of teaching the course:	English				
9-	System of Study:	Regular / Semester				
10-	Mode of delivery:	Lecturers, practical				
11-	Location of teaching the course:	Faculty of veterinary medicine				

II. Course Description:

To provide students with basic knowledge of hygienic production of milk and dairy products;

to gain the skills to analyze milk samples, dairy products.

To gain knowledge: about Composition of milk, Milk production and biosynthesis of milk, Nutritive value of milk, physical properties, milk constituents, Effect of diseases on Milk constituents, Dairy microbiology, Milk-borne diseases, clean milk production, heat treatment of milk, Quality assurance and production control, Criteria for evaluation of milk and dairy products.

II. Intended learning outcomes (ILOs) of the course:

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After completing this course, students will be able to:

a1- Outline the chemical composition and microbiology of dairy products.

a2- Shows knowledge and understanding about milk-borne pathogens and spoilage organisms.

b1- Judge the different defects which present the milk & milk products

b2- Discuss the chemical pollutants & suitable control measures.

c1- Apply ideal methods to collect and transfer the samples for physical and chemical examination of milk & milk products.

c2- Perform full microbiological examination of milk and milk products.

d1- Demonstrate appropriate professional attitudes and behaviors in different practice situations.

d2- Draw the way by which he should be able to work effectively as a member of a team in the delivery of services to community.

V. Course Content:					
A – Th	A – Theoretical Aspect:				
Order	Order Topics List Week Due Contact H				
1	Introduction, Milk production	1	2		
2	Physical properties of milk	2	2		
3	milk constituents	3	2		
4	Chemical composition	4	2		
5	Heat treatment of milk	5,6	4		
6	Milk-borne diseases	7	2		
7	Mid-Term Exam	8	2		
8	Sources of contamination	9	2		
9	Mastitis and milk quality	10	2		
10	Residues and contaminants	11,12	4		
11	Drying of milk	13	2		
12	Concentrated milk	14	2		

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13	Clean milk production, HACCP system in dairy plants	15	2
14	Final Exam	16	2
Number of Weeks /and Units Per Semester		16	32

	b- Training Aspect:				
Ord er	Training Tasks	Week Due	Contact hours		
1	Introduction, Sampling	1	2		
2	Physical & chemical examination	2	2		
3	Determination of keeping quality raw milk	3,4	4		
4	Detection the efficiency of heat treatment	5	2		
5	Standard plate count	6	2		
6	Mastitis and milk quality	7	2		
7	Mid-Term Exam	8	2		
8	Isolation of pathogenic M.Os, fecal pollution and indicators M.Os	9	2		
9	Residues in milk	10	2		
10	Milk production examination	11,12	4		
11	Detection of preservatives in milk	13	2		
12	Detection of adulteration in milk	14	2		
13	Student activities: Dairy plants visits	15	2		
14	Final Exam	16	2		
	Number of Weeks /and Units Per Semester1632				

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V. Teaching strategies of the course:

- Lectures depending on the sharing efforts of the students and supported with macromedia and multimedia aids.
- Training visits to dairy farms as well as milk processing plants.
- Practical sections: Laboratory examination of milk, milk products, by chemical and microbiological methods.
- Self-learning (Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library).
- Summer training course.
- Assays and reviews.

Discussion groups.

/I. Assessment Methods:

- Written examination: For assessment of knowledge, back calling and Intellectual skills.
- Practical examination: For assessment of practical and professional skill.
- Oral examination: For assessment of knowledge and Intellectual skills.
- Student activities: For assessment of knowledge and general and transferable skills.

No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Participation, quizzes and assignments	2-14	10	10%
2	Mid-Term Exam	8	10	10%
3	Mid-Term Practical Exam	8	10	10%
4	Final Practical Exam	15	10	10%
5	Oral Exam	16	5	5%
	Final Exam	16	55	55%
	Total		100	100%

II. Learning Resources:

1

1- Required Textbook(s) (maximum two).

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	 Dairy microbiology Vol. I and 2 2nd, 1990edition, (Robinson, R.K) Dairy Science and Technology, Second Edition (Food Science and Technology, 2005 P. Walstra, Jan T. M. Wouters, Tom J. Geurts Marth and Steel (Applied dairy microbiology) Milk and milk products, 1997 (Sutherland & Varnam)
3	- Electronic Materials and Web Sites etc.
	- <u>WWW.PubMed.com</u>
	- Intrnational of veterinary information services (IVIS)
	- <u>www.Vet.net.com</u>
	- journal of food protection
	- Science Direct web site

XI.	Course Policies:		
1	Class Attendance:		
	Mandatory to attend all course lectures		
2	Tardiness:		
	Not allowed at all. Students must be in class or in the practical session 10		
	minutes prior to the beginning of lectures or practical session		
3	Exam Attendance/Punctuality:		
	Attendance is mandatory; absence is accepted with valid excuse		
4	Assignments & Projects:		
	All assignments and projects are to be submitted on their due date. Any		
	assignment turned in after the due date will not be accepted without valid and		
	reasonable excuse		
5	Cheating:		
	Not tolerated and may lead to EXPELLING the student from the program		
6	Plagiarism:		
	Not tolerated AT ALL and may lead to EXPELLING the student from the		
	program		
7	Other policies:		

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Faculty Of Veterinary Medicine



1.	All devices must be on silent or at least on vibration during lectures/labs
2.	Before any exam (written, oral) we must check student's identity (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room.
3.	Any of type/ form of cheating is not allowed no matter what.
	Maintain silence during lectures/exam and disturbance is not allowed. For any questions students should raise their hand and wait for permission to talk.

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