Faculty Of Veterinary Medicine

Veterinary Medicine Program









Course Specification of Dairy and Dairy product Hygiene

I.	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	
4	Study level/ semester at which this course is offered:	MI352, MI355, MI353, MI357 None					
5	Pre –requisite (if any):						
6	Co –requisite (if any):						
7	Program (s) in which the course is offered:						
8	Language of teaching the course:						
9	Location of teaching the course:	Faculty of veterinary medicine					
10	Prepared by:	Far	is Mohamme	d Ahmed A	l-zailay		
11	Date of approval:						

II. Course description:

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

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products.	

II	I. Intended learning outcomes (ILO	s) of	the course:			
	(A) Knowledge and Understanding:					
A	lignment of Course Intended Learning Outcomes (CILOs) to F	_	n Intended Learning Outcomes (PILOs) in: Knowledge and		
Program Intended Learning Outcomes (Sub- PILOs) in: Knowledge and Understanding			Course Intended Learnin	ng Outcomes (CILOs) in: l Understanding		
After	completing this program, students will be able to:	After	completing this course, stud	ents 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-	a1- Outline the chemical composition and mic 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 borne pathogens and spo	l understanding about milk- pilage organisms		
Teaching And Assessment Meth			or Achieving Learni	ng Outcomes:		
C	Alignment of Learning Outcomes of Knowledge an	nd Un				
Course Intended Learning Outcomes (CILOs) in Knowledge and Understanding		Teaching strategies/methods to be used		Methods of assessment		
comp	leting this course, students will be able to:	• L	ecture	Written examination		
a1- a2-	Outline the chemical composition and microbiology of dairy products. Shows knowledge and understanding about milk horne pathogens and speilege organisms.	 Dialogue and discuss Practical practice 		 Quiz Oral examination Practical examination		
a2-	milk-borne pathogens and spoilage organisms	• So	cientific visits	 Practical examination 		

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 Field clinical training 	Activities
brain storming	Reports evaluation
self-learning	

(B)	Intellectual Skills:					
Alignn	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Intellectual skills					
Pro	ogram Intended Learning Outcomes (Sub- PILOs) in Intellectual skills	C	ourse Intended Learnin Intellectu	g Outcomes (CILOs) of		
After	completing this program, students will be able to:	After	completing this course, stud			
B2-	Predicts an appropriate medical diagnosis for the most common disease states through	b1-	Judge the different deformation & milk products	ects which present the milk		
	analysis of clinical story data and the results of medical examinations of a sick animal.		-			
B3-	Design appropriate nursing and treatment	b2-	Discuss the chemical p	ollutants & suitable control		
	care plans for different diseases that affect		measures.			
	animals, prioritizing treatment.					
Teaching And Assessment Methods For Achieving Learning Outcomes:				ng Outcomes:		
		s to Teaching Methods and Assessment Methods:				
Course Intended Learning Outcomes (CILOs) in Intellectual Skills.		Teac	ching strategies/methods to be used	Methods of assessment		
After	completing this course, students will be able to:	• D	ialogue and discuss	Written examination		
b1-	Judge the different defects which present the milk & milk products	• L	ecture	Oral examination		
b2-	Discuss the chemical pollutants & suitable	■ P ₁	ractical practice	Practical examination		
	control measures.	■ P ₁	roblem solving	Performance notice		
		■ <i>W</i>	Vorking in groups	 Achievement file 		
		■ Se	cientific visits	Reports evaluation		
		■ Fi	ield clinical training	Proposal evaluation		
		■ Si	imulation and demos			

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(C)	Professional and Practical Skills:					
Align	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Professional and Practical Skills					
	gram Intended Learning Outcomes (Sub- LOs) in Professional and Practical Skills	Co	urse Intended Learning (Professional and Pr			
After	completing this program, students will be able to:	Afte	r completing this course, stud	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		
4.70	Teaching And Assessment Met		3	0		
	ment of Learning Outcomes of Professional and Pract Course Intended Learning Outcomes (CILOs) in	ical S	Teaching and Assessm Teaching	Methods of assessment		
	Professional and Practical Skills		strategies/methods to be used	ricerous of assessment		
After	completing this course, students will be able to:		Practical practice	- Written examinations		
c1-	Apply ideal methods to collect and transfer samples for physical and chemical examination milk & milk products.		Working in groups	 Oral examinations Practical examination		
c2-	Perform full microbiological examination of and milk products.	milk	 Problem solving Scientific visits Case study Field clinical training	Performance noticeAchievement fileReports evaluationProposal evaluation		

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	■ Simulation & demos	
	Researches and	
	projects	

(D)	(D) General / Transferable Skills:						
1	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: General and						
The second	Transfers			O 4			
Pro	gram Intended Learning Outcomes (PILOs) in General / Transferable skills		General / Tran	g Outcomes (CILOs) in sferable skills			
After o	completing this program, students will be able to:	Afte	r completing this course, stu				
D2-	Develops his scientific, professional and research capabilities and follow what is emerging in his field of specialization and using computer applications and information and communication technology.	d1-	Demonstrate appropriate behaviors in different pr	e professional attitudes and ractice situations.			
D4-	Works in normal conditions, crises and epidemics, alone and effectively within a medical team.	d2- Draw the way by which he should be able to w effectively as a member of a team in the deliv of services to community.		r of a team in the delivery			
Teaching And Assessment Meth			For Achieving Learn	ing Outcomes:			
	Alignment of Learning Outcomes of General and Tra			l Assessment Methods:			
Co	urse Intended Learning Outcomes (CILOs) in General and Transferable Skills	Tea	ching strategies/methods to be used	Methods of assessment			
After	completing this course, students will be able to:	• I	Dialogue and discuss	 Achievement file 			
d1-	Demonstrate appropriate professional attitudes and behaviors in different practice situations		Vorking in groups scientific visits	Reports evaluationProposal evaluation			
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.		Researches and projects lelf learning	Performance noticePractical examinations			

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Simulation and demos	
Problem solving	

IV. Course Content:

1 – Course Topics/Items:

a – Theoretical Aspect

Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number 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

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ļ		plants Number of We	eeks /and Units Per Se	rmactar	14	28
	12	Clean milk production, HACCP system in dairy	a1, a2, b1, b2, c1,	detergent and sanitizer	1	2
	11	Concentrated milk	a1, a2, b1, b2, c1, c2	Sweetened & Unsweetened	1	2
	10	Drying of milk	a1, a2, b1, b2, c1, c2	Spray and Roller drying	1	2

	b- Training Aspect:			
Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
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 Pe	er Semester	14	28

V. Teaching strategies of the course:

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- 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:

- 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%				

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

III.	Learning Resource (MLA style or APA style)S:
1-	Required Textbook(s) (maximum two)
	 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 & Hall.
2-	Recommended Readings and Reference Materials
	 A.H.Varnam: Food borne pathogens. Wolfe publishing Ltd. RK. Robinson: Modern dairy technology. Library of congress. Sara Martimore and Carole Wallace: HACCP A practical approach. Wilkie F. Harrigan: Laboratory methods in food microbiology. Academic press limited.
3-	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)
4-	Electronic Materials and Web Sites etc.
	 WWW.PubMed.com Intrnational of veterinary information services (IVIS) www.Vet.net.com journal of food protection

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5- Other Learning Material:

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Science Direct web site

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- **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:				
	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.				

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Course Plan of Dairy and Dairy product Hygiene

X Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Faris M. A. Al-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 Da	airy produ	ct Hygien	e	
2-	Course Number & Code:			PA576			
			C.I	1		Total	
3-	Credit hours:	Th.	Seminar	Pr.	F. Tr.	Total	
		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.

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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:

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.	Co	urse	Con	tent:
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A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	Introduction, Milk production	1	2
2	Physical properties of milk	2	2

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

	b- Training Aspect:		
Order	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

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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 Semester	16	32

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%

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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:

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

- Alan, H. Varnam, Jane P. and Sutherland: Milk and milk products. Chapman & Hall.
- Dairy Science and Technology, Second Edition (Food Science and Technology), 2005 P. Walstra, Jan T.
 M. Wouters, Tom J. Geurts

2- Essential References.

- 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.

- WWW.PubMed.com
- Intrnational of veterinary information services (IVIS)
- www.Vet.net.com
- journal of food protection
- Science Direct web site

XI.	Course Policies:
1	Class Attendance:
	Mandatory to attend all course lectures

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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:
6	Plagiarism: Not tolerated AT ALL and may lead to EXPELLING the student from the program
7	
	Not tolerated AT ALL and may lead to EXPELLING the student from the program
	Not tolerated AT ALL and may lead to EXPELLING the student from the program Other policies:
	Not tolerated AT ALL and may lead to EXPELLING the student from the program Other policies: 5. All devices must be on silent or at least on vibration during lectures/labs
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	 Not tolerated AT ALL and may lead to EXPELLING the student from the program Other policies: 5. All devices must be on silent or at least on vibration during lectures/labs 6. 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. 7. Any of type/ form of cheating is not allowed no matter what.
	Not tolerated AT ALL and may lead to EXPELLING the student from the program Other policies: 5. All devices must be on silent or at least on vibration during lectures/labs 6. 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.

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