



UNIVERSITAS SUMATERA UTARA (USU)
FACULTY OF AGRICULTURE
Animal Sciences Study Programme

Document Code
(to follow)

SEMESTER LEARNING PLAN (RPS)

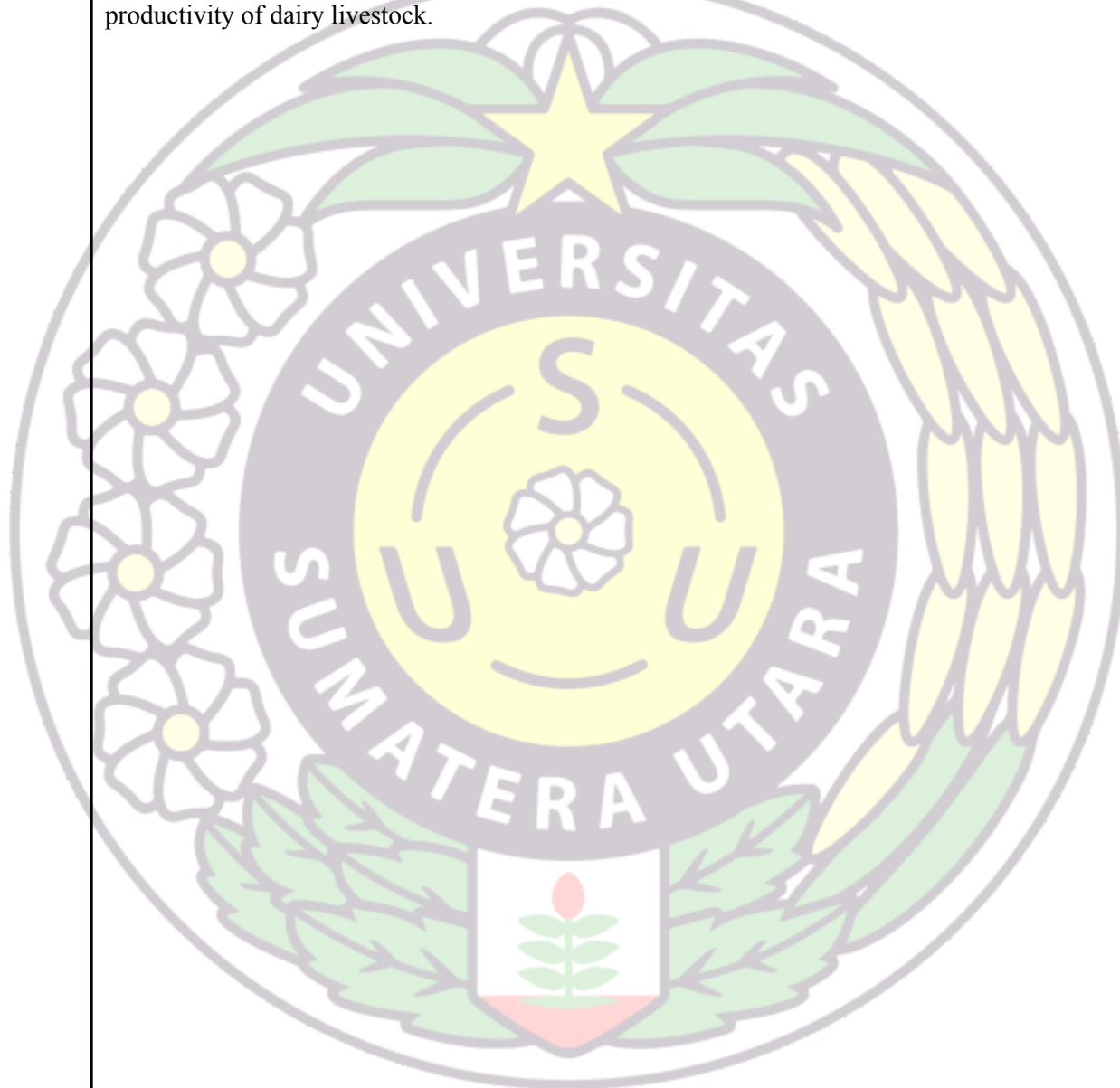
COURSE (MK)	CODE	MK family	WEIGHT (credits)		SEMESTER	Date of Preparation
Dairy Cattle Production	PTN2202	Exact	Theory = 2	Practice = 1	VI	5 February 2024
AUTHORISATION/ATTESTATION	RPS Developer Lecturer		Vice Dean I		Chairman of LINK-UP USU	
	Dr Usman Budi, S.Pt., M.Si Dian Tria Fatmila, S.Pt., M.Si Uswatun Hasanah, S.Pt., M.Si		Dr Lisnawita, S.P., M.P.		Prof. Dr Dwi Suryanto M.Sc.	
Learning Outcomes	LO-Study Programme Charged to					
	LO03	Able to identify, formulate, and find solutions to problems related to the field of animal sciences				
	LO06	Supervise and evaluate the completion of assigned work and be able to manage learning independently throughout life				
	LO08	Able to manage integrated and sustainable livestock cultivation based on integration with other agroecosystems as well as the latest applications in livestock and waste processing				
	LO11	Able to develop and understand and apply a variety of best techniques and methods that combine theories and practices relevant to animal husbandry expertise				
	Course Learning Outcomes (CLO)					CLO Weight
	CLO0310: Able to explain the factors of problems related to productivity of dairy cattle including dairy cattle breeds, anatomy and physiology of the mammary gland, milk biosynthesis, secretion of milk components, rearing and feeding dairy cattle					50.0%
CLO0607: Able to explain the evaluation of environmental conditions related to productivity dairy cattle					18.2%	

CLO0805: Able to design a dairy livestock business based on livestock integration with estate	22.7%
CLO1109: Able to make dairy livestock feed with waste products from agriculture, plantations and fisheries	9.1%
End Capability of Each Learning Stage (Sub-CLO)	



Sub-CLO1

After attending this lecture, students will be able to explain the scope and role of dairy livestock courses to increase the productivity of dairy livestock.



Sub-CLO2

After attending this lecture, students will be able to explain the types of dairy cattle breeds

Sub-CLO3

After attending this lecture, students will be able to explain the anatomy, histology and physiology of the mammary gland.

Sub-CLO4

After attending this lecture, students will be able to explain milk biosynthesis

	Sub-CLO5	After attending this lecture, students will be able to explain the secretion of milk components										
	Sub-CLO6	After attending this lecture, students will be able to explain the management of dairy cattle rearing										
	Sub-CLO7	After attending this lecture, students will be able to explain dairy animal feeding										
	Sub-CLO8	After attending this lecture, students will be able to explain the housing of dairy cattle.										
	Sub-CLO9	After attending this lecture, students will be able to explain milking management										
	Sub-CLO10	After attending this lecture, students will be able to explain the factors that affect milk production and composition.										
	Sub-CLO11	After attending this lecture, students will be able to explain the development of dairy farming and dairy business planning.										
Correlation of CLO with Sub-CLO		Sub-CLO1	Sub-CLO2	Sub-CLO3	Sub-CLO4	Sub-CLO5	Sub-CLO6	Sub-CLO7	Sub-CLO8	Sub-CLO9	Sub-CLO10	Sub-CLO11
	CLO0310	√	√	√	√	√	√	√	√	√	√	√
	CLO0607	√					√		√		√	
	CLO0805	√					√	√	√			√
	CLO1109	√						√				
Brief Course Description	After completing the Dairy Livestock Production course, fourth semester students, Animal Husbandry Study Programme, Faculty of Agriculture, University of North Sumatra are expected to be able to explain about dairy livestock nations, mammary gland anatomy, mammary gland histology, mammary gland physiology, milk biosynthesis, secretion of milk components, dairy livestock maintenance management, dairy livestock feed, housing, milking management and factors affecting production and be able to make dairy livestock business planning. This course is conducted in Indonesian as the language of instruction, and 14 face-to-face meetings consisting of material presentation, case method, quizzes, assignments, and practicum both offline and online.											
Study Material:	BK03 Animal Production Science											

Learning Materials	<ol style="list-style-type: none"> 1. Introduction (scope and role of the course for improving dairy livestock productivity) 2. Dairy cattle nations 3. Anatomy, histology and physiology 4. Milk biosynthesis 5. Secretion of milk components 6. Dairy cattle rearing management 7. Dairy animal feed 8. Dairy livestock housing 9. Milking management 10. Factors affecting milk production and composition 11. Dairy business development and planning
References	<p>Main:</p> <ol style="list-style-type: none"> 1. Sudono, A., R. F. Rosdiana, and B. S. Setiawan. 2003. Raising Dairy Cattle Intensively. Jakarta: Agromedia Library 2. Nurdin, E. 2011. Dairy Cattle Management. Yogyakarta: Graha Ilmu 3. Makin, M. 2011. Dairy Farming Management. Yogyakarta: Graha Ilmu 4. Rukmana. 2014. Intensive Dairy Cow Raising. Bandung: Titian Ilmu 5. Brand, A. J. P., T. M. Noordhuizen, and G. A. Main. 1992. Herd Health and Production Management in Dairy Practice. Netherland: Wagenigen Press. 6. Hadiwiyoto, S. 1994. Quality Testing Techniques for Milk and its Products. Yogyakarta: Liberty Publishers. 7. Amal, M. I. 2022. Management of Dairy Farming in the Tropics. Makassar: Unhas Press 8. Murti, T. W. and S. Yasin. 2014. Management Science and Dairy Industry. Bandung: Reka Cipta Library 9. Holstein Foundation. 2012. Judging Dairy Cow. USA. Holstein Foundation Inc. 10. Sathanoo, S. and B. W. Norton. 1991. Goat Production in the Asian Humid Tropics. Thailand: Prince of Songkala University. 11. Ranjhan, S. K. 1980. Animal Nutrition in The Tropics 2nd revised. New Delhi: Vikas pub.co. 12. Senger, P. L. 2012. Pathways to Pregnancy & Parturition 3rd ed. Washington: Current Conceptions Inc. 13. Sanding Committee on Agriculture. 1990. Ruminants Feeding Standard for Australian Livestock. Victoria: CSRIO Publication. 14. Tulloh, N. M., and J. H. G. Holmes. 1992. Buffalo Production. Netherland: Elsevier Science Publishers. 15. Syukriani, D., I. Irda, and D. Kurnia. 2022. Dairy Animal Science. Padang: Payakumbuh State Agricultural Polytechnic 16. Walstra, P. and R. Jennes. 1984. Dairy Chemistry and Physics. New York: John Willey and Sons. 17. American Dairy Goat Association (ADGA). 2011. Dairy Goat Judging Supplement. USA: Holstein Foundation Inc.
	Additional:

1. Galleger, and N. Thomsen. 1994. Principal Description of Body Condition Score in Holstein Cows. J. Dairy Sci. Vol. 77: 2695-2703
2. Handbook of Good Dairy Husbandry Practices. National Dairy Development Board
3. Sudarisman. 2007. Congenital Transmission of Infectious Bovine Rhinotracheitis (IBR) in Cattle and Buffalo in Indonesia. Wartazoa. Vol. 17(1): 29-37
4. Lab manual
5. National and international journals



Lecturer

1. Dr Usman Budi, S.Pt., M.Si.
2. Uswatun Hasanah, S.Pt., M.Si.
3. Dian Tria Fatmila, S.Pt., M.Si.

Conditional Subjects		-					
	End ability of each learning stage (Sub-CLO)	Assessment		Form of Learning; Learning Methods; Student Assignments; [Estimated Time]		Study Materials (Learning Materials)	Assessment Weight (%)
		Indicators	Criteria and Techniques	Asynchronous (5)	Synchronous (6)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Sub-CLO1: After attending this lecture, students will be able to explain the scope and role of dairy livestock courses to increase the productivity of dairy livestock.	Accuracy in explaining the scope and role of dairy livestock production courses in efforts to increase dairy livestock productivity.	Criteria: - Techniques: <i>Non test</i>	KM+PT (1 week x 3 credits x 120 minutes) Learning Methods: <i>Self-Paced Learning</i> Activities: a. Attendance b. Download and read the Syllabus (RPS), Learning Implementation Plan (SAP), Course Agreement, and	TM (1 week x 2 credits x 50 minutes) Learning Methods: a. Lecture b. Discussion Activities: a. Online/offline learning b. Class discussion c. Take notes on learning materials Media:	Subject matter: a. Scope of the dairy livestock production course b. The role of dairy livestock courses to improve dairy livestock productivity	0

				<p>Learning Materials</p> <p>a. Slides/ ppt b. Zoom meeting/ LCD c. Text book</p> <p>Moda (Learning Management System): class.usu.ac.id</p>		
2-3	Sub-CLO 2:	Accuracy in explained nations	<p>Criteria:</p> <p>Assessment Rubric</p>	<p>KM+PT (2 weeks x 3 credits x 120 minutes)</p> <p>Learning Methods: <i>Self-Paced Learning</i></p> <p>Activities:</p> <p>a. Recording attendance b. Completing the quiz c. Practicum</p> <p>Quiz 1: Quiz to measure students' understanding of dairy cattle nations</p> <p>Moda (Learning Management System): class.usu.ac.id</p>	<p>TM (2 weeks x 2 credits x 50 minutes)</p> <p>Subject matter:</p> <p>a. Nation-sub-tropical dairy cattle breeds b. Nation-tropical dairy cattle breeds c. Nation-crossbred dairy cattle breeds d. Dairy buffalo e. Dairy goats f. Dairy sheep</p>	<p>Quiz 1: 1.5%</p> <p>(CLO0310)</p>

	After attending this lecture, students will be able to explain the types of dairy cattle breeds.	dairy livestock in the commodities of cattle, buffalo, goats and sheep	Technique: <i>Test:</i> Quiz		Learning Methods: a. Lecture b. Discussion Activities: a. Online/offline learning b. Class discussion c. Take notes about the material learning Media: a. Slides/ ppt b. Zoom meeting LCD a. Text book		Sub CLO This will be <i>assessed</i> during the mid-term exam with 6.6% weight per cent of weight assessment UTS (20%) (CLO0310)
4-5	Sub-CLO 3:	a. Accuracy in explaining	Criteria: Assessment Rubric Techniques:	KM+PT (2 weeks x 3 credits x 120 minutes)	TM (2 weeks x 2 credits x 50 minutes)	Subject matter: a. Anatomy mammary glands	Assignment 1: 2.5% (CLO0310)

	<p>After attending this lecture, students will be able to explain the anatomy, histology and physiology of the mammary gland.</p>	<p>mammary gland anatomy b. Accuracy in explaining blood circulation / system lymphatica c. Accuracy in explaining the nervorum system d. Accuracy in explaining mammary gland histology e. Accuracy in explaining mammary gland development f. Accuracy in explaining synthesis and milk release</p>	<p><i>Test:</i> <i>Assignment</i></p>	<p>Learning Methods: <i>Self-Paced Learning</i></p> <p>Activities: a. <i>Recording attendance</i> b. <i>Completing assignment</i> c. <i>Practicum</i></p> <p>Assignment 1: Make a resume of udder anatomy and physiology (picture, description, and function), collected in pdf form.</p> <p>Moda (Learning Management System): kelas.usu.ac.id</p>	<p>Learning Methods: a. Lecture b. Discussion</p> <p>Activities: a. Online/offline learning b. Class discussion c. Take notes on learning materials d. Presentation</p> <p>Media: a. Slides/ ppt b. Zoom meeting/ LCD c. Text book</p>	<p>b. Circulation blood / lymphatica system c. System nervorum d. Histology mammary glands e. Mammary gland development f. Milk synthesis and release</p>	<p>Sub CLO This will be assessed during the mid-term exam with a weight of 6.6% per cent of the UTS assessment weight (20%) (CLO310)</p>
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6	<p>Sub-CLO 4:</p> <p>After attending this lecture, students will be able to explain milk biosynthesis</p>	<p>a. Accuracy in explaining fat biosynthesis b. Accuracy in explaining</p>	<p>Criteria: Using the assessment rubric</p> <p>Techniques: <i>Non test</i></p>	<p>KM+PT (1 week x 3 credits x 120 minutes)</p> <p>Learning Methods: <i>Self-Paced Learning</i></p> <p>Activities:</p>	<p>TM (1 week x 2 credits x 50 minutes)</p> <p>Learning Methods: a. Lecture b. Discussion</p> <p>Activities:</p>	<p>Subject matter:</p> <p>a. Fat biosynthesis b. Protein biosynthesis c. Lactose biosynthesis</p>	<p>Sub CLO</p> <p>This will be <i>assessed</i> during the midterm exam with a weight of 6.6% per cent of the weight</p>
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		<p>protein biosynthesis</p> <p>c. Accuracy in explaining lactose biosynthesis</p>		<p>a. <i>Recording attendance</i></p> <p>b. <i>Practicum</i></p> <p>Moda (Learning Management System): kelas.usu.ac.id</p>	<p>a. Online/offline learning</p> <p>b. Class discussion</p> <p>c. Take notes on learning materials</p> <p>Media:</p> <p>a. Slides/ ppt</p> <p>b. Zoom meeting/ LCD</p> <p>c. Text book</p>		<p>test assessment (20%) (CLO0310)</p>
7	<p>Sub-CLO 5:</p> <p>After attending this lecture, students will be able to explain the secretion of milk components</p>	<p>a. Accuracy in explaining water and vitamin secretion</p> <p>b. Accuracy in explaining mineral secretion</p>	<p>Criteria: Assessment Rubric</p> <p>Technique: <i>Test: Quiz</i></p>	<p>KM+PT (2 weeks x 3 credits x 120 minutes)</p> <p>Learning Methods: <i>Self-Paced Learning</i></p> <p>Activities:</p> <p>a. <i>Recording attendance</i></p> <p>b. <i>Completing the quiz</i></p> <p>c. <i>Practicum</i></p> <p>Quiz 2: Quiz to measure student understanding of milk component secretion</p> <p>Mode (Learning Management System):</p>	<p>TM (2 weeks x 2 credits x 50 minutes)</p> <p>Learning Methods:</p> <p>a. Lecture</p> <p>b. Discussion</p> <p>Activities:</p> <p>a. Online/offline learning</p> <p>b. Class discussion</p> <p>c. Take notes on learning materials</p> <p>d. Presentation</p> <p>Media:</p> <p>a. Slides/ ppt</p> <p>b. Zoom meeting/ LCD</p> <p>c. Text book</p>	<p>Subject matter:</p> <p>a. Secretion of water and vitamins</p> <p>b. Secretions mineral</p>	<p>Quiz 2: 1% (CLO0310)</p>

				class.usu.ac.id			
8	MID SEMESTER EXAMINATION						15%
9	<p>Sub-CLO 6:</p> <p>After attending this lecture, students will be able to explain the management of dairy cattle rearing</p>	<p>a. Accuracy in explaining the care of puppies from birth to weaning</p> <p>b. Accuracy in explaining the care of heifers</p> <p>c. Accuracy in explaining lactating livestock</p>	<p>Criteria: Using the assessment rubric</p> <p>Techniques: <i>Test:</i> <i>Case Method</i></p>	<p>KM+PT (2 weeks x 3 credits x 120 minutes)</p> <p>Learning Methods: <i>Self-Paced Learning</i></p> <p>Activities:</p> <ol style="list-style-type: none"> <i>Recording attendance</i> <i>Completing assignment</i> <i>Practicum</i> <p>Case Method 1:</p> <ol style="list-style-type: none"> Divide the group evenly (lecturer divides) Make a paper on dairy cattle maintenance management of a maximum of 15 pages from table of contents to bibliography TNR font size 12 spacing 1.5 sent in pdf form 	<p>TM (1 week x 2 credits x 50 minutes)</p> <p>Learning Methods:</p> <ol style="list-style-type: none"> Lecture Discussion <p>Activities:</p> <ol style="list-style-type: none"> Online/offline learning Class discussion Take notes on learning materials <p>Media:</p> <ol style="list-style-type: none"> Slides/ ppt Zoom meeting/ LCD Text book 	<p>Subject matter:</p> <ol style="list-style-type: none"> Care of puppies from birth to weaning Care of heifers Care of lactating cattle 	<p>Case method 1 : 20% (CLO0310, CLO0607 & CLO0805)</p>

				c. Group 1 presentation Moda (Learning Management System): kelas.usu.ac.id			
10-11	Sub-CLO 7: After attending this lecture, students will be able to explain dairy animal feeding	a. Accuracy in explaining the principles of feed management b. Accuracy in explaining the utilisation and nutrient requirements of dairy cattle c. Accuracy in explaining the preparation of livestock rations d. Accuracy in explaining feeding management	Criteria: Using the assessment rubric Techniques: <i>Test:</i> a. Case Method b. Assignment	KM+PT (2 weeks x 3 credits x 120 minutes) Learning Methods: <i>Self-Paced Learning</i> Activities: a. Recording attendance b. Completing assignment c. Practicum Case Method 2: a. Divide the group evenly (lecturer divides) b. Make a paper on dairy cattle feed management with a maximum of 15 pages from table of contents to bibliography fonts TNR size 12 spaces	TM (1 week x 2 credits x 50 minutes) Learning Methods: a. Lecture b. Discussion Activities: a. Online/offline learning b. Class discussion c. Take notes on learning materials Media: a. Slides/ ppt b. Zoom meeting/ LCD c. Text book	Subject matter: a. Feed management principles b. Nutrient utilisation c. Nutrient requirements of dairy cattle d. Preparation of dairy cattle rations e. Feeding management	PBL 1: 10% & Assignment 2: 2.5% (CLO0310, CLO0607 & CLO1109)



1.5 sent in pdf form
c. Group 2
presentation

Assignment 2: Make a resume on the needs, nutrient utilisation, and ration preparation of dairy cattle (A4; TNR 12 pt; maximum 5 pages), collected in pdf form

Moda (Learning Management System):
kelas.usu.ac.id

12	<p>Sub-CLO 8:</p> <p>After attending this lecture, students will be able to explain the housing of dairy cattle.</p>	<p>a. Accuracy in explaining the housing system</p> <p>b. Accuracy in explaining the layout of the cage location</p> <p>c. Accuracy in explaining measures</p>	<p>Criteria: Using the assessment rubric</p> <p>Techniques: <i>Test:</i> <i>Case Method</i></p>	<p>KM+PT (2 weeks x 3 credits x 120 minutes)</p> <p>Learning Methods: <i>Self-Paced Learning</i></p> <p>Activities:</p> <p>a. <i>Recording attendance</i></p> <p>b. <i>Completing assignment</i></p> <p>c. <i>Practicum</i></p> <p>Case Method 3:</p>	<p>TM (1 week x 2 credits x 50 minutes)</p> <p>Learning Methods:</p> <p>a. Lecture</p> <p>b. Discussion</p> <p>Activities:</p> <p>a. Online/offline learning</p> <p>b. Class discussion</p> <p>c. Take notes on learning materials</p>	<p>Subject matter:</p> <p>a. Housing system</p> <p>b. Location layout</p> <p>c. Size-cage size and shape</p> <p>d. Cage construction</p>	<p>PBL 2: 10% (CLO0310, CLO0607 & CLO0805)</p>
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		<p>and cage shape</p> <p>d. Accuracy in explaining cage construction</p>		<p>a. Divide the group evenly (lecturer divides)</p> <p>b. Make a paper on dairy cattle housing management of a maximum of 15 pages from table of contents to bibliography TNR font size 12 spacing 1.5 sent in pdf form</p> <p>c. Group presentation 3</p> <p>Moda (Learning Management System): kelas.usu.ac.id</p>	<p>Media:</p> <p>a. Slides/ ppt</p> <p>b. Zoom meeting/ LCD</p> <p>c. Text book</p>		
13	<p>Sub-CLO 9:</p> <p>After attending this lecture, students will be able to explain milking management</p>	<p>a. Accuracy in explaining milking techniques and programmes</p> <p>b. Accuracy in explaining the types and ways</p>	<p>Criteria: Using the assessment rubric</p> <p>Techniques:</p> <p><i>Test:</i></p> <p><i>Case Method</i></p>	<p>KM+PT (2 weeks x 3 credits x 120 minutes)</p> <p>Learning Methods:</p> <p><i>Self-Paced Learning</i></p> <p>Activities:</p> <p>a. <i>Recording attendance</i></p>	<p>TM (2 weeks x 2 credits x 50 minutes)</p> <p>Learning Methods:</p> <p>a. Lecture</p> <p>b. Discussion</p> <p>Activities:</p> <p>a. Online/offline learning</p>	<p>Subject matter:</p> <p>a. Milking techniques and programmes</p> <p>b. Types and working of milking machines</p> <p>c. Procedure milking</p>	<p>PBL 3: 10% (CLO0310)</p>

		<p>dairy machine work</p> <p>c. Accuracy in explaining the milking procedure</p>		<p>b. <i>Completing assignments</i></p> <p>c. <i>Practicum</i></p> <p>Case Method 4:</p> <p>a. Divide the group evenly (lecturer divides)</p> <p>b. Make a paper on milking management maximum 15 pages from table of contents to bibliography TNR font size 12 spacing 1.5 sent in pdf form</p> <p>c. Group presentation 4</p> <p>Moda (Learning Management System): kelas.usu.ac.id</p>	<p>b. Class discussion</p> <p>c. Take notes on learning materials</p> <p>Media:</p> <p>a. Slides/ ppt</p> <p>b. Zoom meeting/ LCD</p> <p>c. Text book</p>		
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14	<p>Sub-CLO 10:</p> <p>After participating in this lecture, students will be able to explain the factors that lead to</p>	<p>Accuracy in explaining the factors that affect milk production and composition based on aspects</p>	<p>Criteria: Using the assessment rubric</p> <p>Techniques: <i>Non test</i></p>	<p>KM+PT (1 week x 3 credits x 120 minutes)</p> <p>Learning Methods: <i>Self-Paced Learning</i></p>	<p>TM (1 week x 2 credits x 50 minutes)</p> <p>Learning Methods: c. Lecture d. Discussion</p>	<p>Subject matter: a. Genetic factors influencing milk production and composition</p>	<p>Sub CLO</p> <p>This will be <i>assessed</i> during the UAS with a weight of 20 % per cent</p>
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15	<p>Sub-CLO 11:</p> <p>After attending this lecture, students will be able to explain the development of dairy farming and dairy business planning.</p>	<p>a. Accuracy in explaining the development of dairy farming</p> <p>b. Accuracy in explaining dairy cattle business</p>	<p>Criteria: Using the assessment rubric</p> <p>Techniques: <i>Test:</i> <i>Case Method</i></p>	<p>KM+PT (2 weeks x 3 credits x 120 minutes)</p> <p>Learning Methods: <i>Self-Paced Learning</i></p> <p>Activities:</p> <p>a. <i>Recording attendance</i></p> <p>b. <i>Completing assignment</i></p> <p>c. <i>Practicum</i></p> <p>Case Method 5:</p> <p>d. Divide the group evenly (lecturer divides)</p> <p>e. Make a paper on the development of animal husbandry and</p>	<p>TM (1 week x 2 credits x 50 minutes)</p> <p>Learning Methods:</p> <p>a. Lecture</p> <p>b. Discussion</p> <p>Activities:</p> <p>a. Online/offline learning</p> <p>b. Class discussion</p> <p>c. Take notes on learning materials</p> <p>Media:</p> <p>a. Slides/ ppt</p> <p>b. Zoom meeting/ LCD</p> <p>c. Text book</p>	<p>Subject matter:</p> <p>a. Dairy farming development</p> <p>b. Dairy business planning</p>	<p>Case method 2: 10% (CLO0310 & CLO0805)</p>
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				dairy cattle business planning maximum 15 pages from table of contents to bibliography font TNR size 12 spacing 1.5 sent in pdf form f. Group 5 presentatio n Moda (Learning Management System): kelas.usu.ac.id			
16	FINAL SEMESTER EXAMINATION						20%

Matrix of Fulfilment of CLO with Evaluation Types and Processes

Form of Evaluation	CLO0310	CLO0607	CLO0805	CMPK1109
Quiz	Quiz grading			
Tasks	Task assessment	Task assessment	Task assessment	
Project Based Learning (PBL) (presentation and participation in discussion, and <i>practicum/field visit</i> report)	Presentation assessment rubric	Presentation assessment rubric	Presentation assessment rubric	Presentation assessment rubric

Case Method (presentation and participation in discussion, and practicum/field visit report)	Presentation assessment rubric	Presentation assessment rubric	Presentation assessment rubric	
UTS (Mid Semester Exam)	Mid-term test assessment (multiple choice questions and essay questions)			
UAS (Final Semester Exam)	UAS assessment (multiple choice questions and essay questions)	UAS assessment (multiple choice questions and essay questions)		

Assessment Plan

Form of Evaluation	Weight	Frequency
Quiz	10	2 (held on week 3 and 7)
Tasks	10	2 (held on week 5 and 11)
Case Method	20	2 (held on week 9, 15)
PBL	30	3 (held on week 10, 12, 13)
UTS	15	1 (held on week 8)
UAS	15	1 (held on week 16)
Total	100%	

Explanation:

a) Quiz 5%

During the semester there will be 2 quizzes organised in class. The quizzes will be conducted via e-learning and are scheduled in advance. The material tested is announced by the lecturer and written in the RPS.

b) Task 5%

During the semester there will be 2 structured task. The task given are an effort to add insight by making a resume related to the material written in the RPS.

c) Case Method 20%

During the semester there will be case methods, each student will make a paper and report on each case method in groups. Case method in this course is conducted 2 times. The papers that have been made will be presented by students. Students will be assessed according to their participation in the presentation and accuracy in the presentation, as well as their participation in the question and answer session when other groups are presenting.

d) Project based learning 30%

During the semester there will be PBL, each student will make a paper and report from each PBL in groups. PBL in this course is conducted 3 times. The papers that have been made will be presented by students. Students will be assessed according to their participation in the presentation and accuracy in the presentation, as well as their participation in the question and answer session when other groups make presentations.

e) UTS 15%

The midterm exam covers all the material that has been covered since the beginning of the semester until the 7th meeting, both readings and lectures. This exam is conducted in class with multiple choice, short form, and essay questions.

f) UAS 15%

The end-of-semester exam covers all the material that has been covered from the 9th to the 15th meeting, both readings and lectures. This exam is conducted in class with multiple choice, short answer, and essay questions.



ASSESSMENT RUBRIC

Post Test Quiz Assessment Rubric (10%)

Pre/Post test questions there are 5 essay questions done on a sheet of paper (done 2 times during 1 semester)

Value per item	Criteria
20	Can answer the question correctly, the steps of working on the problem are correct, and completely correct
15	The steps are correct, but there are a few mistakes
10	Most of the steps are correct, but there are many errors
5	The steps of working on the problem are not correct, unable to solve the problem

*Maximum score **100 (5 items x 20 points)**

Minimum score = 25 (5 items x 5 points)

Quiz 1 score : $20 \times \sum \text{nilai per butir soal}$ (maximum score is 100) Quiz

2 score: $20 \times \sum \text{nilai per butir soal}$ (maximum score is 100)

Total score if taking the entire post test quiz with a perfect score $200 \times 10\%$ [quiz percentage] = 20

Group Presentation Assignment Assessment Rubric (50%)

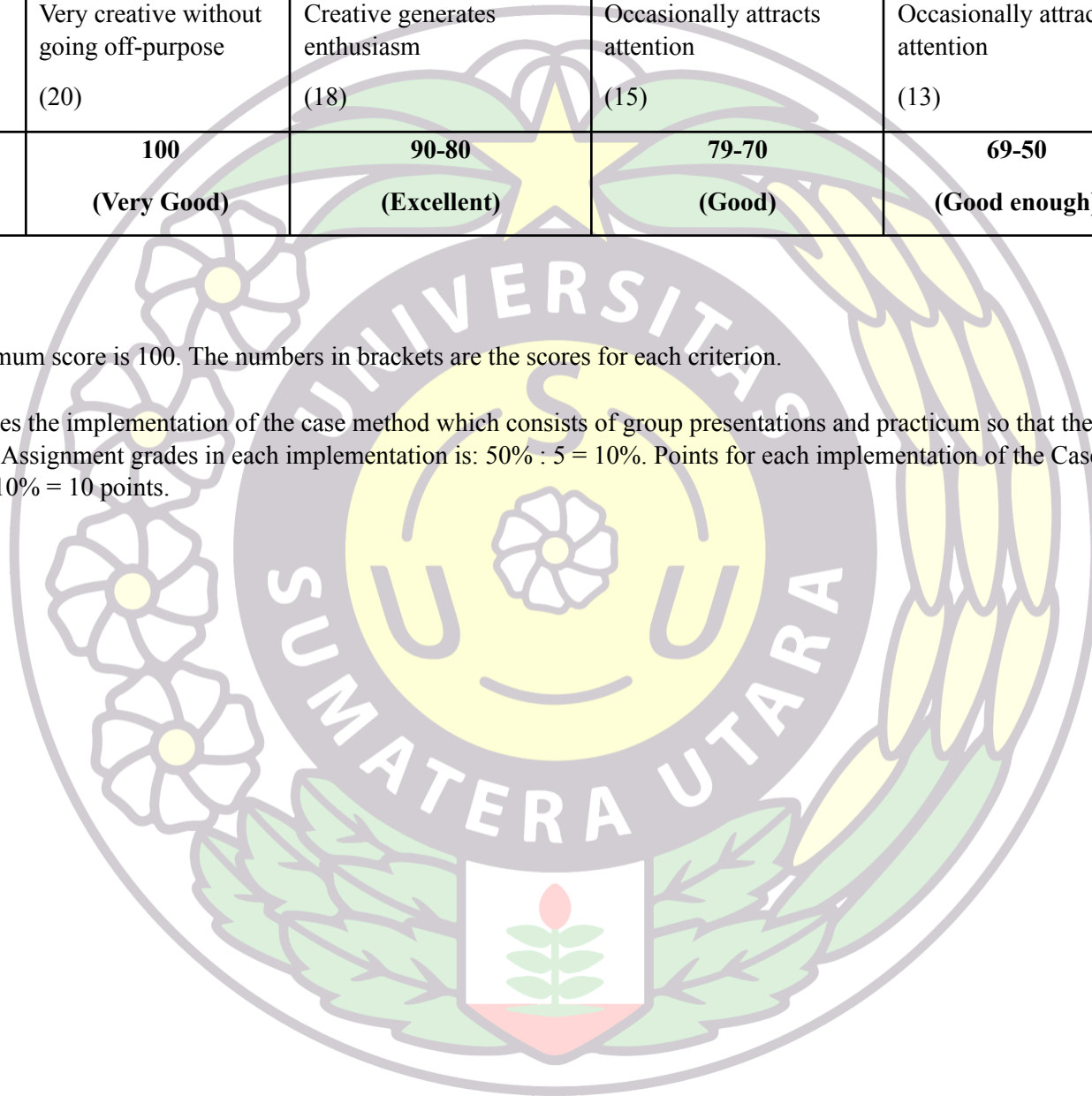
It	Evaluation criteria				
Contents	Complete, with good additional material (20)	Complete (18)	Same as text book (16)	Incomplete, but most of the material has been covered (14)	Substantially incomplete (12)
Answering discussion questions	Able to answer all questions correctly (20)	Can answer most of the questions correctly but there are questions that are not answered (18)	Can answer some questions correctly, others do not reach the target and there are questions that are not answered (16)	Most answers do not reach the target and some questions are not answered (14)	Can't answer all questions (12)
Presentation	Clear, concise with good flow (20)	Clear, concise with sometimes poor flow (18)	Moderate presentation skills (16)	Presentation stutters (14)	Presentation not running (12)
Group organisation	Very good organisation, supporting each other's presentations (20)	Good organisation (18)	Medium organisation, some people are less organised (16)	There is a lack of organisation, so there is often miscommunication (14)	Organisation was chaotic so the presentation was very disrupted (12)

Creativity	Very creative without going off-purpose (20)	Creative generates enthusiasm (18)	Occasionally attracts attention (15)	Occasionally attracts attention (13)	Boring, makes you sleepy (11)
TOTAL	100 (Very Good)	90-80 (Excellent)	79-70 (Good)	69-50 (Good enough)	59-40 (Less Good)

Description:

The total maximum score is 100. The numbers in brackets are the scores for each criterion.

There are 5 times the implementation of the case method which consists of group presentations and practicum so that the percentage of Case Method Group Assignment grades in each implementation is: $50\% : 5 = 10\%$. Points for each implementation of the Case Method Group Project: $100 \times 10\% = 10$ points.



Essay Exam Scoring Rubric:

Assessment Criteria	4 Very good	3 Good	2 Simply	1 Less
Understanding of the Question	Understand the question exactly once (25)	Understand the question (20)	Does not understand the question fully and correctly (15)	Not understanding the question (10)
Contents	Answers show understanding participants integrate information that has been learnt and/or assigned to read during lectures properly and appropriately. (25)	Answers demonstrate an understanding of the material in question and integrate some of the information learnt and/or assigned to read during lectures. (20)	Answers show a lack of understanding of the material in question and only integrate a small portion of the information that has been learnt and/or assigned to read during the lecture. (15)	The answer shows a lack of understanding of the material in question so it is not clear and does not integrate information that has been learnt and/or assigned to read during lectures. (10)
Clarity of Writing	All the ideas of the writing are presented well and clearly. (25)	Most of the ideas are well-written and clear. (20)	Some of the ideas are well-written and clear. (15)	The idea of the writing is not conveyed well and clearly. (10)
Language Clarity	Uses foreign/Indonesian language well and correctly few grammatical errors and	Using foreign languages /Indonesia well and correctly with few grammatical errors and	Using foreign languages /Indonesia fairly well and correctly with	Does not use foreign/Indonesian language properly and correctly because the writing contains many mistakes

	word choice that does not interfere with understanding (25)	word choices that interfere with understanding. (20)	some grammatical and word choice errors (15)	grammar and word choice (10)
Total	81-100 (Excellent)	61-80 (Good enough)	41-60 (Enough)	0-40 (Less)

Multiple Choice Exam Scoring Rubric:

Value per item	Criteria
100/many questions	Can answer the question correctly
0	The answer is not correct / does not match the answer key that has been provided