



**UNIVERSITAS SUMATERA UTARA (USU)
FACULTY OF AGRICULTURE
ANIMAL SCIENCE STUDY PROGRAM**

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Code
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SEMESTER LEARNING PLAN (SLP)

COURSE	CODE	COURSE GROUP	CREDIT		SEMESTER	Date of Compilat
Livestock Based Regional Development	PTN3225	Exact	Theory = 2	Practicum = 1	VI (Six)	October 2 2024
AUTHORIZATION / APPROVAL	SLP Developer Lecturer		Vice Dean I		Chairman of LINK-UP US	
			Dr. Lisnawita, SP, MP		Prof. Dr. Dwi Suryanto M.S	
Learning Outcomes	LO-PRODI Charged to MK					
	LO08	Able to manage integrated and sustainable livestock farming based on integration with other agro-ecosystems as well as the latest applications in processing livestock products and waste.				
	LO10	Able to plan, evaluate and manage livestock businesses with agribusiness principles				
	LO12	Have coherent and up-to-date knowledge in the field of animal science and in accordance with applicable regulations and can apply aspects of animal welfare.				
	LO14	Able to communicate effectively both verbally and in writing to the public while respecting cultural diversity, values and opinions nationally and globally.				
Course Learning Outcomes (CLO)					CLO Credit	
CLO0816: Able to prepare a livestock area development plan based on livestock integration with plantations					42%	

	CLO1008: Able to explain livestock-based regional development plans based on agribusiness principles.	33%
	CLO1220: Able to explain the principles of community empowerment which include equality, participation, self-reliance, independence and sustainable principles in the livestock sector to realize improvements in institutions, businesses, income, environment, life and livestock communities.	15%
	CLO1413: Able to carry out regional development based on livestock while respecting cultural diversity in the community both nationally and globally.	10%
Final Ability of Each Learning Stage (Sub-CLO)		
Sub-CLO 1	After taking this course, students will be able to understand the basic concepts of livestock-based regional development.	
Sub CLO2	After taking this course, students will be able to explain the potential, strategies and objectives of regional development based on livestock and plantations.	
Sub-CLO 3	After taking this lecture, students will be able to explain the implementation of cattle integration with oil palm plantations based on agribusiness principles.	
Sub-CLO 4	After taking this lecture, students will be able to explain the implementation of cattle integration with corn plantations based on agribusiness principles.	
Sub-CLO 5	After taking this lecture, students will be able to explain the implementation of cattle integration with coffee plantations based on agribusiness principles.	
Sub-CLO 6	After taking this course, students will be able to explain principles and stages of community empowerment in livestock farming	
Sub-CLO 7	After taking this course, students will be able to analyze the development of livestock areas from economic, socio-cultural, infrastructure and technology, legal and institutional aspects.	

Correlation of CLO with Sub-CLO	<table border="1"> <thead> <tr> <th></th> <th>Sub-CLO1</th> <th>Sub-CL O2</th> <th>Sub-CL O3</th> <th>Sub-CL O4</th> <th>Sub-CLO5</th> <th>Sub-CLO6</th> <th>Sub-CLO7</th> </tr> </thead> <tbody> <tr> <td>CLO0816</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td></td> <td></td> </tr> <tr> <td>CLO1008</td> <td></td> <td></td> <td>√</td> <td>√</td> <td>√</td> <td></td> <td></td> </tr> <tr> <td>CLO1220</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>√</td> <td>√</td> </tr> <tr> <td>CLO1413</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>√</td> </tr> </tbody> </table>		Sub-CLO1	Sub-CL O2	Sub-CL O3	Sub-CL O4	Sub-CLO5	Sub-CLO6	Sub-CLO7	CLO0816	√	√	√	√	√			CLO1008			√	√	√			CLO1220						√	√	CLO1413							√
	Sub-CLO1	Sub-CL O2	Sub-CL O3	Sub-CL O4	Sub-CLO5	Sub-CLO6	Sub-CLO7																																		
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CLO1220						√	√																																		
CLO1413							√																																		
Brief Description of Course	<p>After completing the course Livestock Based Regional Development, sixth semester students, Animal Science Study Program Faculty of Agriculture, University of North Sumatra are expected to be able to analyze the index and status of regional development sustainability. This course is conducted using Indonesian as the language of instruction with 14 face-to-face meetings consisting of material presentations, discussions, presentations, online/offline practicums, quizzes and assignments.</p>																																								
Study Material: Learning materials	<p>BK05 Social Science and Animal Science Economics BK06 Literacy, Communication, Dissemination National and Global Scope</p> <ol style="list-style-type: none"> 1. Introduction to livestock-based regional development courses 2. The concept of developing livestock and plantation areas 3. Potential, strategies and objectives of livestock and plantation area development 4. Integration system of livestock with plantation crops 5. Community empowerment in livestock-based areas 6. Analysis of livestock area development based on several aspects of consideration 																																								
Library	Main																																								

	<ol style="list-style-type: none"> 1. Bahri, S. 2012. Sustainable Livestock Development Strategy by Utilizing Local Resources. Journal of Agricultural Research and Development. 31(4):142-152 2. Fahrudin, Adi. 2012. Empowerment, Participation and Strengthening of Community Capacity. Bandung: Humaniora 3. Hikmat, Harry. 2006. Community Empowerment Strategy. Bandung: Humaniora 4. Mahi, AK 2016. Regional Development. Kencana: Jakarta 5. Mayulu, H. and TP Daru. 2019. Regional Livestock Development Policy. Journal of Tropical Agrifood. 1(2): 49-60 6. Saud, MY 2019. Regional Development Based on Agriculture. Nasya Expanding Management: Pekalongan 7. Suharto, Edi. 2005. Building Society Empowering the People. Bandung: Refika Aditama 8. Suyitman, SH Sutjahjo, C. Herison and Muladno. 2009. Sustainability Status of Livestock-Based Areas in Situbondo Reg for the Development of Agropolitan Areas. Journal of Agro Economics. 27(2): 165-191 9. Weriantoni, DP Melenia and Indriyani. 2024. Regional Development Based on LQ. Azka Library: West Sumatra 						
	<p>Supporters</p> <ol style="list-style-type: none"> 1. Practical Guide Book 2. Scientific Articles 3. International and national journals 						
Supporting lecturer							
Required Courses	-						
Meeting	Final ability of each learning stage (Sub-CLO)	Evaluation		Form of Learning; Learning methods; Student Assignments; [Estimated Time]		Study Materials (Learning materials)	Assessment Cr (%)
		Indicator	Criteria and Techniques				
(1)	(2)	(3)	(4)	Asynchronous (5)	Synchronous (6)	(7)	(8)

1 & 2	<p>Sub-CLO 1:</p> <p>After taking this course, students will be able to understand the basic concepts of livestock-based regional development.</p>	<p>Accuracy in explaining basic concept of regional development based on livestock and plantations</p>	<p>Criteria: Using assessment rubrics</p> <p>Technique: <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>Activity:</p> <ol style="list-style-type: none"> Attendance presence Introduction Download and read the Syllabus (RPS), Learning Implementation Plan (SAP), Course Agreement, and Learning Materials <p>Mode (Learning Management System): class.usu.ac.id</p>	<p>TM (1 week x 2 credits x 50 minutes)</p> <p>Learning methods:</p> <ol style="list-style-type: none"> <i>Lecture</i> <i>Discussion</i> <p>Activity:</p> <ol style="list-style-type: none"> <i>Online/offline learning</i> <i>Class discussion</i> Make notes about learning materials <p>Media:</p> <ol style="list-style-type: none"> Slides/ ppt Zoom meeting/ LCD <p>Text book</p>	<p>Subject:</p> <ol style="list-style-type: none"> Introduction to the course on livestock-based regional development Basic concept of regional development based on livestock and plantations
3 & 4	<p>Sub-CLO 2:</p> <p>After taking this course, students will</p>	<p>Accuracy in explaining potential, strategies and objectives of</p>	<p>Criteria: Using assessment rubrics</p>	<p>KM+PT (1 week x 3 credits x 120 minutes)</p>	<p>TM (1 week x 2 credits x 50 minutes)</p>	<p>Subject:</p> <ol style="list-style-type: none"> Regional development

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	be able to explain the potential, strategies and objectives of regional development based on livestock and plantations.	regional development based on livestock and plantations	Technique: <i>Test:</i> <i>Quiz</i>	Learning methods: <i>Self-Paced Learning</i> Activity: a. Attendance presence b. Reviewing the materials for the 2nd week meeting c. Introduction d. Quiz Quiz 1 : Quiz to measure students' understanding in meetings week 1-3 Mode (Learning Management System): class.usu.ac.id	Learning methods: a. <i>Lecture</i> b. <i>Discussion</i> Activity: a. <i>Online/offline learning</i> b. <i>Class discussion</i> c. Make notes about learning materials Media: a. Slides/ ppt b. Zoom meeting/ LCD c. Text book	b. The goal of livestock-based regional development potential and strategies
5	Sub-CLO 3: After taking this lecture, students will be able to explain the implementation	a. Accuracy in explaining Implementation of integration of cattle with oil palm	Criteria: Using assessment rubrics	KM+PT (1 week x 3 credits x 120 minutes) Learning methods:	TM (1 week x 2 credits x 50 minutes) Learning methods:	Subject: Integration of cattle farming and oil palm plantations

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	of cattle integration with oil palm plantations based on agribusiness principles.	plantations based on agribusiness principles	Technique: <i>Non-test</i>	<i>Self-Paced Learning</i> Activity: a. Attendance presence b. Reviewing the materials for the week 4 meeting c. Introduction Mode (Learning Management System): class.usu.ac.id	a. <i>Lecture</i> b. <i>Discussion</i> Activity: a. <i>Online/offline learning</i> b. <i>Class discussion</i> c. Make notes about learning materials Media: a. Slides/ ppt b. Zoom meeting/ LCD c. Text book	
6	Sub-CLO 4: After taking this lecture, students will be able to explain the implementation of cattle integration with corn plantation crops based on agribusiness principles.	a. Accuracy in explaining implementation of integration of cattle farming with corn plantations based on agribusiness principles	Criteria: Using assessment rubrics Technique: <i>Test: Assignments</i>	KM+PT (1 week x 3 credits x 120 minutes) Learning methods: <i>Self-Paced Learning</i> Activity: a. Attendance presence b. Reviewing the materials for	TM (1 week x 2 credits x 50 minutes) Learning methods: a. <i>Lecture</i> b. <i>Discussion</i> Activity: a. <i>Online/offline learning</i> b. <i>Class discussion</i>	Subject: Integration of cattle farming and corn plantation crops

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				<p>the week 5 meeting</p> <p>c. Introduction</p> <p>d. Task</p> <p>Task:</p> <p>a. Divide the groups evenly (the lecturer divides)</p> <p>b. Create a paper with TNR font size 12, 1.5 spacing, sent in PDF format</p> <p>c. Group presentation</p> <p>Mode (Learning Management System): class.usu.ac.id</p>	<p>c. Make notes about 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>	
7	<p>Sub-CLO 5:</p> <p>After taking this lecture, students will be able to explain the implementation of cattle integration with coffee plantation crops</p>	<p>Accuracy in explaining Implementation of integration of cattle farming with coffee plantations based on agribusiness principles</p>	<p>Criteria: Using assessment rubrics</p> <p>Technique: <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:</p> <p>a. <i>Lecture</i></p> <p>b. <i>Discussion</i></p>	<p>Subject: Integration of cattle farming and coffee plantation crops</p>

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	based on agribusiness principles.			Activity: a. Attendance presence b. Reviewing the materials for the week 4 meeting c. Introduction Mode (Learning Management System): class.usu.ac.id	Activity: a. <i>Online/offline learning</i> b. <i>Class discussion</i> c. Make notes about learning materials Media: a. Slides/ ppt b. Zoom meeting/ LCD c. Text book	
8	MID-SEMESTER EXAM (MID TERM EXAM)					15%
9 & 10	Sub-CLO 6: After taking this course, students will be able to understand the principles and stages of community empowerment in livestock farming.	Accuracy in explaining community empowerment in livestock-based areas	Criteria: Using assessment rubrics Technique: <i>Non-test</i>	KM+PT (1 week x 3 credits x 120 minutes) Learning methods: <i>Self-Paced Learning</i> Activity: a. Attendance presence b. Review meeting materials before	TM (1 week x 2 credits x 50 minutes) Learning methods: a. <i>Lecture</i> b. <i>Discussion</i> Activity: a. <i>Online/offline learning</i> b. <i>Class discussion</i>	Subject: Goals, principles and stages of community empowerment <i>Diasses</i> according to student attendance and activity Quiz 2: 10%

				<p>mid-term exam and mid-term exam evaluation</p> <p>c. Introduction d. Quiz</p> <p>Quiz 2 : Quiz to measure student understanding after mid-term exam evaluation</p> <p>Mode (Learning Management System): class.usu.ac.id</p>	<p>c. Make notes about learning materials d. Presentation</p> <p>Media: a. Slides/ ppt b. Zoom meeting/ LCD c. Text book</p>	
11, 12, 13, 14 & 15	<p>Sub-CLO 7: After taking this course, students will be able to analyze the development of livestock areas from economic, socio-cultural, infrastructure and technology, legal</p>	<p>Accuracy in analyzing the development of livestock areas from the perspective of economic, socio-cultural, infrastructure and technology, legal and institutional entrepreneurship aspects</p>	<p>Criteria: Using assessment rubrics</p> <p>Technique: <i>Test: Assignments</i></p>	<p>KM+PT (2 weeks x 3 credits x 120 minutes)</p> <p>Learning methods: <i>Self-Paced Learning</i></p> <p>Activity: a. Attendance presence</p>	<p>TM (2 weeks x 2 credits x 50 minutes)</p> <p>Learning methods: a. <i>Lecture</i> b. <i>Discussion</i></p> <p>Activity: a. <i>Online/offline learning</i></p>	<p>Subject: a. Development of livestock areas based on economic aspects b. Development of livestock areas based on socio-cultural aspects c. Development of livestock areas based on</p>

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Task 2: 10%

	and institutional aspects.			<p>b. Reviewing the meeting materials for weeks 10, 11, 12, 13 and 14</p> <p>c. Introduction</p> <p>d. Task</p> <p>Task 2:</p> <p>a. Divide the groups evenly (the lecturer divides)</p> <p>b. Create a paper with TNR font size 12, 1.5 spacing, sent in PDF format</p> <p>c. Group presentation</p> <p>Mode (Learning Management System): class.usu.ac.id</p>	<p>b. <i>Class discussion</i></p> <p>c. Make notes about 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>infrastructure and technology aspects</p> <p>d. Development of livestock areas based on legal aspects</p> <p>e. Development of livestock areas based on institutional aspects.</p>
16	FINAL SEMESTER EXAM (FINAL EXAM)				30%	

Assessment Design:

CLO Code and Percentage	Sub-CLO Code	Evaluation Form	Percentage (%)	Total	Implementation of Evaluation
CLO0816 (42%)	Sub-CLO1	MID TERM EXAM	4	42	Week 8
	Sub-CLO2	Quiz	5		Week 3
	Sub-CLO3	MID TERM EXAM	4		Week 8
	Sub-CLO4	Project Based Learning	25		Week 8
	Sub-CLO5	MID TERM EXAM	4		Week 8
CLO1008 (33%)	Sub-CLO3	MID TERM EXAM	4	33	Week 8
	Sub-CLO4	Project Based Learning	25		Week 8
	Sub-CLO5	MID TERM EXAM	4		Week 8
CLO1220 (15%)	Sub-CLO6	FINAL EXAM	10	15	Week 15
	Sub-CLO7	Quiz	5		Week 11
CLO1413 (10%)	Sub-CLO7	FINAL EXAM	10	10	Week 15
Total			100%	100%	

Assessment Plan:

Evaluation Form	Sub-CLO	Assessment Instrument [Frequency]		Invoice (proof)	Assessment Credit (%)
		Formative	Summative		
Quiz/Q&A	Sub-CLO2 and Sub-CLO7	Assessment rubric [2 times]	-	Quiz answers uploaded to kelas.usu.ac.id	5
Assignment	Sub-CLO7	Assessment rubric [2 times]	-	Assignment answers uploaded to kelas.usu.ac.id	5
Project Based Learning	Sub-CLO4 and Sub-CLO7	Feedback results case analysis [3 times]	Assessment rubric [2 times]	Logbook/worksheet/slides uploaded to kelas.usu.ac.id	30
Case Method	Sub-CLO4 and Sub-CLO7	Feedback results case analysis [2 times]	Assessment rubric [2 times]	Logbook/worksheet/slides uploaded to kelas.usu.ac.id	20
Written exam 1 (MID TERM EXAM)	Sub-CLO1, Sub-CLO2, Sub-CLO3, Sub-CLO4 and Sub-CLO5	-	Assessment rubric [1 time]	Written exam result sheet	20
Written exam 2 (FINAL EXAM)	Sub-CLO6 and Sub-CLO7	-	Assessment rubric [1 time]	Written exam result sheet	20
Total					100%

Explanation:

- a) Quiz 5%

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

b) Assignment 5%

During the semester there will be 1 structured assignments. The assignment given is an effort to add insight by making a resume related to the material written in the RPS.

c) Project-based learning 30%

During the semester there will be case methods, each student will make a paper and report on each case method in groups. Project based learning in this course is conducted 1 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 present.

d) 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 1 time. 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 present.

e) Mid-semester exam (UTS) (mid-test) 20%

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

f) Final-semester exam (UAS) (final-test) 20%

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 form, and essay questions.

Post Test Quiz Assessment Rubric (10%)

The Pre/Post test questions consist of 5 essay questions done on one sheet of paper (done twice during 1 semester)

Value per question item	Criteria
20	Can answer questions correctly, complete the steps correctly, and completely correct
15	The steps for completing the questions are correct, there are a few errors.
10	Most of the steps in completing the questions are correct, there are many errors.

5	The steps for completing the question are not correct, the question cannot be completed
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***Maximum score = 100 (5 questions x 20 points)**

Minimum score = 25 (5 questions x 5 points)

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

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

Group Presentation Assignment Assessment Rubric (10%)

Matter	Evaluation criteria				
Contents	Complete, with great additional material (20)	Complete (18)	Same as text book (16)	Not complete, but most of the material is 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 some questions that are not answered (18)	Able to answer some questions correctly, some others did not reach the target and there were questions that were not answered (16)	Most of the answers do not reach the target and there are unanswered questions. (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 working (12)
Group organization	Very good organization, supporting each other's presentations (20)	Good organization (18)	Medium organization, some people are less organized (16)	Lack of organization often results in communication errors (14)	The organization was chaotic so the presentation was very disrupted. (12)
Creativity	Very creative without going off target (20)	Creativity creates enthusiasm (18)	At times it attracts attention (15)	At times it attracts attention (13)	Boring, makes you sleepy (11)
TOTAL	100 (Very Good)	90-80 (Very well)	79-70 (Good)	69-50 (Pretty good)	59-40 (Not good)

Information :

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

Essay Exam Assessment Rubric:

Assessment criteria	4 Very good	3 Good	2 Enough	1 Not enough
Understanding the Questions	Understand the question exactly once (25)	Understanding the questions (20)	Not understanding the question fully and correctly (15)	Don't understand the question (10)
Contents	Answers show understanding in-depth understanding of the material being asked and participants integrate the information that has been studied and/or assigned to be read during the lecture well and appropriately (25)	The answers demonstrate understanding of the material being asked and integrate some of the information that has been studied and/or assigned to be read during the lecture. (20)	The answer shows a lack of understanding of the material being asked and only integrates a small portion of information that has been studied and/or assigned to be read during lectures. (15)	The answer shows a lack of understanding of the material being asked so it is unclear and not integrated. information that has been studied and/or assigned to be read during lectures. (10)
Clarity of Writing	All written ideas are conveyed well and clearly. (25)	Most of the ideas in the writing are well and clearly conveyed. (20)	Some of the ideas in the writing are conveyed well and clearly. (15)	The ideas in the writing are not conveyed well and clearly. (10)
Clarity of Language	Uses foreign/Indonesian languages well and	Uses foreign/Indonesian languages well and	Uses foreign/Indonesian language quite well and	Does not use foreign/Indonesian

	correctly with minimal grammatical errors and word choices that do not interfere with understanding (25)	correctly with minimal grammatical errors and word choices that interfere with understanding. (20)	correctly with some grammatical errors and word choices (15)	language properly and correctly because the writing contains many grammatical errors and word choices (10)
Total	81-100 (Very well)	61-80 (Pretty good)	41-60 (Enough)	0-40 (Not enough)

Multiple Choice Exam Scoring Rubric:

Value per question item	Criteria
100/ many questions	Can answer questions correctly
0	The answer is not quite right/does not match the answer key provided.