

# **SEMESTER LEARNING PLAN (SLP)**

**GRAZING MANAGEMENT OF SMALL FARMING SYSTEM  
(23101120703)**



## **TEACHING TEAM :**

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**BACHELOR PROGRAMME IN ANIMAL HUSBANDRY  
FACULTY OF ANIMAL SCIENCE  
HASANUDDIN UNIVERSITY  
MAKASSAR  
2025**

**BACHELOR PROGRAMME IN ANIMAL HUSBANDRY  
FACULTY OF ANIMAL SCIENCE  
HASANUDDIN UNIVERSITY**

**Vision**

Vision of the study program :

Becoming an international standard in livestock education provider based on the Indonesian Maritime Continent

**Vision Strategy**

In accordance with the vision, mission, and objectives that have been set, the Animal Husbandry Study Program of the Faculty of Animal Science sets the following objectives to be achieved:

- a. Improving the quality of learning implementation that is in line with the needs of industry and society based on research and international standards;
- b. Creating networks and partnerships in the development of Animal Husbandry science and technology and its utilization in the implementation of learning;
- c. Producing graduates who have character, vision, creativity and innovation in the field of animal husbandry science and technology with an entrepreneurial perspective.

**Mission**

The mission carried out in the implementation of the Bachelor of Animal Husbandry Study Program, Faculty of Animal Husbandry, Hasanuddin University is

- 1) Organizing quality learning to produce independent and globally competitive Animal Husbandry scholars.
- 2) Developing animal husbandry science for the benefit of the nation.
- 3) Providing a conducive academic climate for implementing education with an entrepreneurial perspective.

**Graduate Profiles**

| No | Profile          | Description   |
|----|------------------|---|
| 1  | Manager          | Graduates who apply concepts and techniques in managing livestock farming and institutions related to livestock businesses such as financial institutions           |
| 2  | Young Researcher | Graduates who able to apply scientific concepts and methods in solving problems in the development of the field of Animal Husbandry                                 |
| 3  | Planners         | Graduates who able to prepare potential and problem analysis, as well as formulate plans and strategies for the development of the livestock and related industries |
| 4  | Educators        | Graduates who have the ability and skills to transfer science and technology to students in the field of animal husbandry   |
| 5  | Entrepreneur     | Graduates who able to apply business in the field of Animal Husbandry as their main business, or business development to support livestock business                 |
| 6  | Bureaucrat       | Graduates who are able to organize government duties, especially in the affairs of livestock development  |

### **Learning Outcomes imposed on the Course**

- 1) ILO-7 3 (P2) - Mastering the concept and solving livestock problems based on data, science, and scientific methods (K-02).
- 2) ILO-5 (KU2) - Able to make appropriate decisions in the context of problem solving, based on the results of data and information analysis (GS-02).
- 3) ILO-9 (KK3) - Skilled in managing livestock enterprises (SS-03).

### **Course Learning Outcomes (CLO)**

CLO-1: Students are able to analyze the types of pastures and grazing methods in the tropics (CLO3)

CLO 2: Students are able to identify the nutrient needs of pastures, as well as weed control in pastures (CPL5)

CLO-3: Students are able to formulate planning, development, rehabilitation and utilization of pastures (CPL9)

### **Sub-CLO**

Sub-CLO 1: Able to explain about pastures and their types, as well as grazing methods

( ) Sub-CLO 2: Able to build and rehabilitate pastures ( )

Sub-CLO 3: Able to improve soil fertility on pasture land

( ) Sub-CLO 4: Able to plan cropping model in pasture ( )

Sub CLO 5: Able to plan the best defoliation ( )

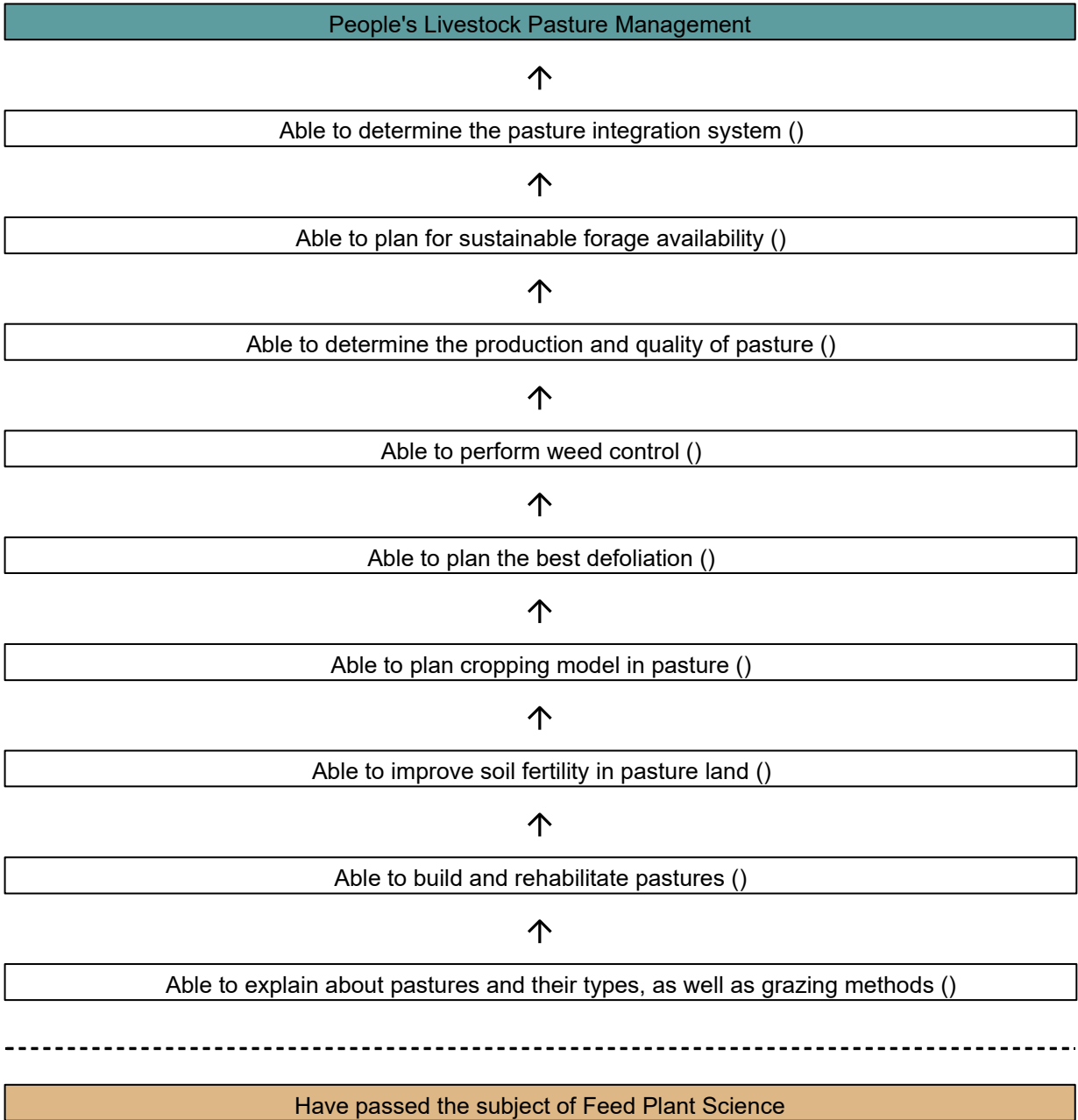
Sub CLO 6: Able to perform weed control ( )

Sub-CLO 7: Able to determine the production and quality of pasture ( )

Sub CLO 8: Able to plan the availability of forage in a sustainable manner ( )

Sub CLO 9: Able to determine pasture integration system ( )

## Learning Analysis





**HASANUDDIN UNIVERSITY  
FACULTY OF ANIMAL  
SCIENCE  
BACHELOR PROGRAMME IN ANIMAL HUSBANDRY  
SEMESTER COURSE PLAN**

| Course                                     | Code   | Course Group  | Credit Points             | Semester | Date of Preparation                                    |
|--|--|---|---------------------------|----------|--|
| Grazing Management of Small Farming System | 23I01120703  | Nutrition   | 3                         | 3        | 24 September 2024                                      |
| <b>Authority</b>                           | <b>Developer Lecturer</b>  |   | <b>Course Coordinator</b> |          | <b>Head of study Program</b>                           |
|  | Dr. Rinduwati, S.Pt.,MP<br>Prof. Dr. Ir. Budiman<br>Marhamah Nadir, SP., M.Si., Ph.D.                                      |   | Dr. Rinduwati, S.Pt, MP   |          | Dr. Agr. Ir. Renny Fatmyah Utamy, S. Pt., M. Agr., IPM |
| <b>Course Learning Outcomes</b>            | <b>ILOs that are imposed on the course</b>   |   |                           |          |  |
|  | <b>ILO-3</b>   | Mastering concepts and solving animal husbandry problems based on data, science and scientific methods.                     |                           |          |  |
|  | <b>ILO-5</b>   | Able to make appropriate decisions in the context of problem solving, based on the results of data and information analysis |                           |          |  |
|  | <b>ILO-9</b>   | Able to run a livestock entrepreneurship  |                           |          |  |
|  | <b>ILO⇒ Course Learning Outcomes (CLO)</b>   |   |                           |          |  |
|  | <b>Upon completion of this course, it is expected that:</b>  |   |                           |          |  |
|  | <b>ILO-3</b>   | CLO-1 Students are able to analyze the types of grasslands and grazing methods in the tropics.                              |                           |          |  |
|  | <b>ILO-5</b>   | CLO-2 Students are able to identify pasture nutrient needs, as well as weed control in pastures.                            |                           |          |  |
|  | <b>ILO-9</b>   | CLO-3 Students are able to formulate planning, development, rehabilitation and utilization of pastures.                     |                           |          |  |
|  | <b>CLO⇒ Sub-CLOs</b>   |   |                           |          |  |
| <b>CLO 1</b>                               | Sub-CLO 1: Able to respond to the history of dairy cattle development in foreign countries and in Indonesia. ILO 8 (CLO-1) |   |                           |          |  |

|  |  |
|--|--|
|  | Sub-CLO 2: Able to apply maintenance management on dairy cows (calves, heifers, lactating cows, dry cows, and studs, as well as cull cows (baby beef) and cull studs; dairy buffaloes, dairy goats, and dairy sheep. ILO 7 (CLO-1) |
|  | Sub-CLO 3: Able to analyze diseases that often affect calves, heifers, and adult cattle (infectious diseases, endo- and ecto-parasitic diseases, and metabolic diseases) and their preventive measures. ILO 7 (CLO-1)              |
|  | Sub-CLO 4: Able to implement milking management and milk handling and management. ILO 7 (CLO-1)  |
|  | Sub-CLO 5: Able to analyze the types of pollution due to dairy livestock waste and how to handle and utilize them. ILO 8 (CLO-1)   |
|  | Sub-CLO 6: Able to implement strategies for preparing dairy cattle rations and how to feed them. ILO 7 (CLO-1)   |
|  | Sub-CLO 7: Able to organize the institution, layout, and income analysis of dairy cattle business. ILO 8 (CLO-1)   |

**Correlation between ILOs/CLOs to Sub-CLOs**

| ILOs that are imposed on the course | ILO | SUB CLO   | Form Assessment+ |           |                     |            |                        | Weight | Value | Student Score |
|-------------------------------------|-----|-----------|------------------|-----------|---------------------|------------|------------------------|--------|-------|---------------|
|                                     |     |           | Formative        | Summative |                     |            |                        |        |       |               |
|                                     |     |           |                  | Quiz      | Interactive Lecture | Case Study | Group Paper Assignment |        |       |               |
| ILO-8                               | 0   | SUB-CLO-3 |                  | 11        | 0                   | 4          | 0                      | 0      | 10    |               |
| ILO-8                               | 0   | SUB-CLO-4 |                  | 3         | 0                   | 4          | 28                     | 15     | 15    |               |
| ILO-8                               | 10  | SUB-CLO-5 |                  | 0         | 0                   | 8          | 0                      | 0      | 10    |               |
| ILO-8                               | 0   | SUB-CLO-6 |                  | 0         | 2.5                 | 0          | 14                     | 0      | 5     |               |
| ILO-8                               | 0   | SUB-CLO-7 |                  | 2         | 0                   | 0          | 0                      | 10     | 10    |               |
| ILO-8                               | 0   | SUB-CLO-8 |                  | 0         | 0                   | 8          | 0                      | 10     | 10    |               |
|                                     |     | SUB-CLO-9 |                  | 0         | 0                   | 24         | 42                     | 10     | 10    |               |
|                                     |     |           |                  | 7.5       | 12.5                | 60         | 10                     | 10     | 100   |               |

|                           |   |
|---------------------------|---|
| <b>Course Description</b> | The People's Animal Husbandry Pasture Management course is a compulsory course which is an advanced course after the Feed Plant Science course for students of the Bachelor of Animal Husbandry Study Program. This course is presented in the third semester, discussing the types of pastures, rehabilitation / development and improvement of pasture fertility, pasture development models, defoliation and pasture ecosystems, carrying capacity, weed control, integration of feed crops with agricultural / plantation / forestry crops. |
|---------------------------|---|

|  |   |
|--|---|
| <b>Learning Materials / Subject Matter</b> | <ol style="list-style-type: none"> <li>1. Types of pastures and grazing methods</li> <li>2. Development and rehabilitation of natural pastures</li> <li>3. Identification of nutrient requirements and soil fertility improvement in pastures</li> <li>4. Pasture development model</li> <li>5. Defoliation and PP ecosystem Weed control</li> <li>6. Stocking rate and tamping capacity</li> <li>7. Sustainable availability of forage Integration of feed crops with agricultural/plantation/forestry crops</li> </ol>  |
| <b>Reference</b>                           | <b>Key Reference</b>  |
|  | <ol style="list-style-type: none"> <li>1. Humphreys, L.R. 1991. Tropical Pasture Utilization. Cambridge University Press, New York and Melbourne</li> <li>2. Humphreys, L.R. 1981. Environmental Adaptation of Tropical Pasture Plants. Mcmillan Scientific and Medical London.</li> <li>3. Mannetje, L.'t. 1978. The Role of Improved Pastures for Beef Production in The Tropics. Trop. Grassland 12, 1-9.</li> <li>4. McIlroy, R.J. 1976. Pengantar Budidaya Padang rumput Tropika. Pradnya Paramita, Jakarta.</li> <li>5. Reksohadiprojo, S. 1994. Produksi Tanaman Hijauan Makanan Ternak Tropik. BFFE, Yogyakarta.</li> <li>6. Subagyo, I. Dan Kusmartono. 1988. Ilmu Kultur Padangan. Nuffic. Universitas Brawijaya. Malang.</li> <li>7. Susetyo, S. 1980. Padang Penggembalaan. Departemen Ilmu Makanan Ternak Fakultas Peternakan Institut Pertanian Bogor, Bogor.</li> <li>8. Susetyo, I. Kismono dan B. Suwardi. 1981. Hijauan Makanan Ternak. Direktorat Jendral Peternakan Departemen Pertanian, Jakarta.</li> <li>9. Whiteman, P.C. 1980. Tropical Pasture Science. Oxford University Press, London.</li> </ol> |
|  | <b>Additional Reference</b>   |
| <b>Teaching Team</b>                       | Prof. Dr. Ir. Budiman, MP,<br>Dr. Rinduwati, S.Pt., MP,<br>Marhamah Nadir, SP, M.Sc, Ph.D   |
| <b>Course requirements</b>                 | <p style="text-align: center;">Grazing Management of Small Farming System</p>   |

| Week | Sub CLO<br>(End ability of each learning stage)                                    | Assesment   |   | Forms and Methods of Learning [time estimate]   |        | Content  | Weight of Assesment (%) |
|------|--|---|---|---|--------|--|-------------------------|
|      |  | Indicator   | Technique & Criteria  | Offline   | Online |  |                         |
| 1    | 2  | 3   | 4   | 5   | 6      | 7  | 8                       |
| 1    | Able to explain about pasture grazing and its types, as well as grazing methods () | <p><b>Formative:</b></p> <p>-</p> <p><b>Sumative:</b><br/>Ability to explain the types of pastures and grazing methods.</p> | <p><b>Kriteria</b></p> <p><b>Formative:</b></p> <p><b>Kriteria</b></p> <p><b>Sumative:</b></p> <p>Quizzes (5) assessed with rubric I011240004</p> <p><b>Assessment Technique:</b></p> <p>Test</p>   | <p><b>Studying:</b></p> <p>Small group discussion, cooperative learning, collaborative learning</p> <p>1 x 2 x 50</p> |        | Scope of grazing land<br>Types of pastures that exist in various parts of the world<br>Grazing methods | 15                      |
| 2-3  | Able to establish and rehabilitate pastures ()                                     | <p><b>Formative:</b></p> <p>-</p> <p><b>Sumative:</b><br/>Ability to plan pasture construction and rehabilitation</p>       | <p><b>Kriteria</b></p> <p><b>Formative:</b></p> <p><b>Kriteria</b></p> <p><b>Sumative:</b></p> <p>Interactive Lecture (2)<br/>Case Study (15) assessed with rubric I011240002.</p> <p><b>Assessment Technique:</b></p> <p>Test and Non test</p> | <p><b>Studying:</b></p> <p>Small group discussion, other methods</p> <p>2 x 2 x 50</p>                                |        | Improvement of grazing management<br>Reseeding or oversowing<br>Pasture construction                   | 15                      |

|     |  |   |   |  |  |   |    |
|-----|--|---|---|--|--|---|----|
| 4-5 | Able to improve soil fertility in pasture land ( | <p><b>Formative:</b></p> <p>-</p> <p><b>Sumative:</b><br/>Ability to improve soil fertility in pasture land</p> | <p><b>Kriteria</b></p> <p><b>Formative:</b></p> <p><b>Kriteria</b></p> <p><b>Sumative:</b></p> <p>Group Paper Assignment (10)</p> <p><b>Assessment Technique:</b></p> <p>Test and Non Test</p>        | <p><b>Studying:</b><br/>Small Group Discussion, Other Methods. 2 x 2 x 50</p> <p><b>Practicum, Studio Practice, Workshop Practice, Field Practice:</b><br/>Case Study, Collaborative Learning</p> <p>1 x 1 x 170</p>                                     |  | <p>Organic fertilization<br/>Chemical fertilization<br/>Fertilization dosage<br/>Fertilization time<br/>Fertilization frequency<br/>Fertilization frequency</p> | 12 |
| 6   | Able to plan a cropping model in pasture ( )     | <p><b>Formative:</b></p> <p>-</p> <p><b>Sumative:</b><br/>Ability to plan cropping model in pasture</p>         | <p><b>Kriteria</b></p> <p><b>Formative:</b></p> <p><b>Kriteria</b></p> <p><b>Sumative:</b></p> <p>Case Study (15) assessed with rubric I011240002</p> <p><b>Assessment Technique:</b></p> <p>None</p> | <p><b>Studying:</b><br/>Small group discussion, other methods. 3 x 2 x 50"</p> <p><b>Practicum, Studio Practice, Workshop Practice, Field Practice:</b><br/>Small group discussion, collaborative learning, project-based learning</p> <p>1 x 2 x 50</p> |  | <p>Single cropping<br/>Mixed cropping<br/>Three-strata system</p>   | 15 |

|      |                                      |   |   |  |  |  |    |
|------|--------------------------------------|---|---|--|--|--|----|
| 9-10 | Able to plan the best defoliation () | <p><b>Formative:</b></p> <p>-</p> <p><b>Sumative:</b></p> <p>Ability to organize the best defoliation</p> | <p><b>Kriteria</b></p> <p><b>Formative:</b></p> <p><b>Kriteria</b></p> <p><b>Sumative:</b></p> <p>Group Presentation (10) assessed with rubric I011240001</p> <p><b>Assessment Technique:</b></p> <p>None</p> | <p><b>Studying:</b></p> <p>Collaborative learning, other methods</p> <p>1 x 2 x 50</p> <p><b>Practicum, Studio Practice, Workshop Practice, Field Practice:</b></p> <p>Case Study, Collaborative Learning, Project-based Learning</p> <p>1 x 1 x 170</p> |  | <p>Defoliation frequency<br/>Defoliation intensity<br/>Defoliation interval<br/>Pasture ecosystem</p> <p>(Pustaka: 4, 9, 11, 10, 13, 15)</p> | 10 |
| 11   | Able to perform weed control ()      | <p><b>Formative:</b></p> <p>-</p> <p><b>Sumative:</b></p> <p>Ability to identify and control weeds</p>    | <p><b>Kriteria</b></p> <p><b>Formative:</b></p> <p><b>Kriteria</b></p> <p><b>Sumative:</b></p> <p>Interactive Lecture (2.5) Quiz (2.5)</p> <p><b>Assessment Technique:</b></p> <p>None</p>                    | <p><b>Studying:</b></p> <p>Collaborative Learning, Project-based Learning, Other Methods. (Project-based Learning), Other methods</p> <p>1 x 2 x 50"</p>   |  | <p>Physical<br/>Biology<br/>Chemistry</p>  | 5  |

|       |  |  |   |   |  |  |    |
|-------|--|--|---|---|--|--|----|
| 12-13 | Able to determine the production and quality of pasture () | <p><b>Formative:</b></p> <p>-</p> <p><b>Sumative:</b></p> <p>Ability to calculate and determine production and quality of pastures</p> | <p><b>Kriteria</b></p> <p><b>Formative:</b></p> <p><b>Kriteria</b></p> <p><b>Sumative:</b></p> <p>Case Study (10)</p> <p><b>Assessment Technique:</b></p> <p>None</p>                                 | <p><b>Studying:</b></p> <p>Small Group Discussion, Other Methods.</p> <p>2 x 2 x 50</p> <p><b>Practicum, Studio Practice, Workshop Practice, Field Practice:</b></p> <p>Case Study, Project-based Learning</p> <p>1 x 1 x 170</p> |  | <p>Stocking rate</p> <p>Holding capacity</p> <p>Botanical composition</p> <p>Quality</p> | 10 |
| 14    | Able to plan for sustainable forage availability ()        | <p><b>Formative:</b></p> <p>-</p> <p><b>Sumative:</b></p> <p>Ability to plan for sustainable forage availability</p>                   | <p><b>Kriteria</b></p> <p><b>Formative:</b></p> <p><b>Kriteria</b></p> <p><b>Sumative:</b></p> <p>Case Study (10) assessed with rubric I011240002</p> <p><b>Assessment Technique:</b></p> <p>None</p> | <p><b>Studying:</b></p> <p>I Small group discussion, other methods.</p> <p>1 x 2 x 50</p>   |  | <p>Feed supplementation in the dry season</p>  | 10 |

|       |   |  |   |   |  |  |           |
|-------|---|--|---|---|--|--|-----------|
| 15-16 | Able to determine pasture integration system () | <p><b>Formative:</b></p> <p>-</p> <p><b>Sumative:</b></p> <p>Ability to determine pasture integration system</p> | <p><b>Kriteria</b></p> <p><b>Formative:</b></p> <p><b>Kriteria</b></p> <p><b>Sumative:</b></p> <p>Case Study (10)<br/>assessed with rubric<br/>I011240001</p> <p><b>Assessment<br/>Technique:</b></p> <p>None</p> | <p><b>Studying:</b></p> <p>Case Study,<br/>Collaborative<br/>Learning</p> <p>1 x 2 x 50</p> |  | <p>Pasture<br/>integration with<br/>agricultural crops<br/>Pasture<br/>integration with<br/>plantation crops<br/>Pasture<br/>integration with<br/>forestry</p> | <p>10</p> |
|-------|---|--|---|---|--|--|-----------|

**Matrix ILO, CLO, and Assessment Method**

| <b>ILO / CLO</b> | <b>CLO-1</b>  |
|------------------|---|
| ELO-3 (P2)       | Quiz (7.5% weight)<br>Interactive Lecture (12.5% weight)<br>Case Study (60% weight)<br>Group Paper Assignment (10% weight)<br>Group Presentation (10% weight) |
| ELO-5 (KU2)      | Quiz (7.5% weight)<br>Interactive Lecture (12.5% weight)<br>Case Study (60% weight)<br>Group Paper Assignment (10% weight)<br>Group Presentation (10% weight) |
| ELO-9 (KK3)      | Quiz (7.5% weight)<br>Interactive Lecture (12.5% weight)<br>Case Study (60% weight)<br>Group Paper Assignment (10% weight)<br>Group Presentation (10% weight) |

**Evaluation Type and Assessment Weight**

| <b>Type</b>            | <b>Assessment Weight</b> |
|------------------------|--------------------------|
| Quiz                   | 7.5                      |
| Interactive Lecture    | 12.5                     |
| Case Study             | 60                       |
| Group Paper Assignment | 10                       |
| Group Presentation     | 10                       |
| Total                  | 100                      |

**Assessment and Evaluation of Student Achievement of CLO**

| ILOs imposed on the Course | CLO    | SUB CLO    | Form of Assessment* |          |                     |            |                        |                    | Weight | Value | Student Score |
|----------------------------|--------|------------|---------------------|----------|---------------------|------------|------------------------|--------------------|--------|-------|---------------|
|                            |        |            | Formative           | Sumative |                     |            |                        |                    |        |       |               |
|                            |        |            |                     | Quiz     | Interactive Lecture | Case Study | Group Paper Assignment | Group Presentation |        |       |               |
| ILO-8                      | CLO- 1 | SUB- CLO-3 |                     | 11       | 0                   | 4          | 0                      | 0                  | 0      |       |               |
| ILO-8                      | CLO- 1 | SUB- CLO-4 |                     | 3        | 0                   | 4          | 28                     | 15                 | 15     |       |               |
| ILO-8                      | CLO- 1 | SUB- CLO-5 |                     | 0        | 0                   | 8          | 0                      | 0                  | 0      |       |               |
| ILO-8                      | CLO- 1 | SUB- CLO-6 |                     | 0        | 2.5                 | 0          | 14                     | 0                  | 0      |       |               |
| ILO-8                      | CLO- 1 | SUB- CLO-7 |                     | 2        | 0                   | 0          | 0                      | 10                 | 10     |       |               |
| ILO-8                      | CLO- 1 | SUB- CLO-8 |                     | 0        | 0                   | 8          | 0                      | 10                 | 10     |       |               |
|                            |        | SUB- CLO-9 |                     | 0        | 0                   | 24         | 42                     | 10                 | 10     |       |               |
|                            |        |            |                     | 7.5      | 12.5                | 60         | 0                      | 10                 | 10     |       |               |



**HASANUDDIN UNIVERSITY  
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BACHELOR PROGRAMME IN ANIMAL  
HUSBANDRY**

**STUDENT STRUCTURED ASSIGNMENT PLAN**

|   |  |            |   |                 |           |
|---|--|------------|---|-----------------|-----------|
| <b>COURSE</b>   | Grazing Management of Small Farming System |            |   |                 |           |
| <b>CODE</b>   | 23101120703                                | <b>SKS</b> | 3 | <b>SEMESTER</b> | 3 (three) |
| <b>INSTRUCTOR</b>   | Dr. Rinduwati, S.Pt., MP.                  |            |   |                 |           |
| <b>ASSIGNMENT TYPE</b>  | <b>ASSIGNMENT COMPLETION TIME</b>          |            |   |                 |           |
| Document/Paper  | 2 Weeks                                    |            |   |                 |           |
| <b>ASSIGNMENT TITLE</b>   |  |            |   |                 |           |
| Types of Grasslands and Grazing Methods in Tropical Regions   |  |            |   |                 |           |
| <b>SUB-LEARNING OUTCOMES OF THE COURSE</b>  |  |            |   |                 |           |
| Sub-CPMK-1 Able to explain about grazing pastures and their types, as well as grazing methods of grazing: (CPMK-1)  |  |            |   |                 |           |
| <b>ASSIGNMENT DESCRIPTION</b>   |  |            |   |                 |           |
| <p>The students' assignment is a group assignment to write a paper on "Grassland Diversity and Grazing Strategies in Tropical Regions." The paper should be written according to the following procedure:</p> <ol style="list-style-type: none"> <li>1) Each group chooses 1 of the sub-topics: Diversity of Grasslands and Grazing Strategies in Tropical Regions for 1 group.</li> <li>2) Discuss among group members to identify the stages of the process for each selected subtopic. Information related to the selected subtopic can be obtained from textbooks and journals.</li> <li>3) Write the paper with the following structure: <ol style="list-style-type: none"> <li>I. Introduction</li> <li>II. Discussion</li> <li>III. Conclusion</li> <li>IV. References</li> </ol> </li> <li>4) Group Presentation</li> </ol> |  |            |   |                 |           |
| <b>METHOD OF ASSIGNMENT COMPLETION</b>  |  |            |   |                 |           |
| 1. Conducted in groups using the Small Group Discussion (SGD) learning method   |  |            |   |                 |           |
| <b>OUTPUT FORMAT AND STRUCTURE</b>  |  |            |   |                 |           |
| <p>a. Subject: Grasslands, Grazing<br/>b. Output Format: Paper</p>  |  |            |   |                 |           |
| <b>INDICATORS, CRITERIA, AND WEIGHTING OF ASSESSMENT</b>  |  |            |   |                 |           |
| <p><b>Indicators:</b></p> <ol style="list-style-type: none"> <li>1. Systematicity: 10%</li> <li>2. Accuracy of analysis: 25%</li> <li>3. Depth of material: 30%</li> <li>4. Novelty and reputation of reference materials: 10%</li> <li>5. Team cohesion: 10%</li> <li>6. Mastery of material: 15%</li> </ol>   |  |            |   |                 |           |
| <b>IMPLEMENTATION SCHEDULE</b>  |  |            |   |                 |           |
| 2 weeks   |  |            |   |                 |           |
| <b>OTHER</b>  |  |            |   |                 |           |
| <b>REFERENCE LIST</b>   |  |            |   |                 |           |
| <ol style="list-style-type: none"> <li>1. Humphreys, L.R. 1991. Tropical Pasture Utilization. Cambridge University Press, New York and Melbourne</li> <li>2. Humphreys, L.R. 1981. Environmental Adaptation of Tropical Pasture Plants. Mcmillan Scientific and Medical London.</li> <li>3. Mannelje, L.'t. 1978. The Role of Improved Pastures for Beef Production in The Tropics. Trop. Grassland 12, 1-9.</li> <li>4. McIlroy, R.J. 1976. Pengantar Budidaya Padang rumput Tropika. Pradnya Paramita, Jakarta.</li> <li>5. Reksohadiprojo, S. 1994. Produksi Tanaman Hijauan Makanan Ternak Tropik. BFFE, Yogyakarta.</li> <li>6. Subagyo, I. Dan Kusmartono. 1988. Ilmu Kultur Padangan. Nuffic. Universitas Brawijaya. Malang. 7.</li> </ol>   |  |            |   |                 |           |

Susetyo, S. 1980. Padang Penggembalaan. Departemen Ilmu Makanan Ternak Fakultas Peternakan Institut Pertanian Bogor, Bogor.  
 Susetyo, I. Kismono dan B. Suwardi. 1981. Hijauan Makanan Ternak. Direktorat Jendral Peternakan Departemen Pertanian, Jakarta.  
 Whiteman, P.C. 1980. Tropical Pasture Science. Oxford University Press, London.

| Definition of 1 credit hour in LEARNING FORMAT |  |                          | Hours                    |
|--|--|--------------------------|--------------------------|
| A  | Lecture, Response, Tutorial  |                          |                          |
|  | Face-to-face   | Structured Assignments   | Independent Study        |
|  | 50 minutes/week/semester   | 60 minutes/week/semester | 60 minutes/week/semester |
|  |  |                          | 2.83                     |
| B  | Seminars or other similar forms of learning  |                          |                          |
|  | Face-to-face   | Independent study        |                          |
|  | 100 minutes/week/semester  | 70 minutes/week/semester |                          |
|  |  |                          | 2.83                     |
| C  | Practical training, studio practice, workshop practice, field practice, research, community service, and/or other equivalent forms of learning |                          |                          |
|  | 170 minutes/week/semester  |                          | 2.83                     |

| No | Student Learning Methods   | Code |
|----|--|------|
| 1  | Small Group Discussion   | SGD  |
| 2  | Role-Play & Simulation   | RPS  |
| 3  | Discovery Learning   | DL   |
| 4  | Self-Directed Learning   | SDL  |
| 5  | Cooperative Learning   | CoL  |
| 6  | Collaborative Learning   | CbL  |
| 7  | Contextual Learning  | CtL  |
| 8  | Project-Based Learning   | PjBL |
| 9  | Problem-Based Learning & Inquiry   | PBL  |
| 10 | Or other learning methods that can effectively facilitate the fulfillment of graduate learning outcomes. |      |