

SEMESTER COURSE PLAN (SCP)

SYSTEM OF LIVESTOCK INDUSTRY

(23101120102)



TEACHING TEAM :

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Prof. Dr. Ir. Hastang, M.Si, IPU

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 Strategic

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

SLO-3 - Mastering the concept and solving livestock problems based on data, science, and scientific methods (K-02).

SLO-5 - Able to make appropriate decisions in the context of problem solving, based on the results of data analysis and information. and information.

Course Learning Outcomes (CLO)

CLO-1: Able to identify production stages and describe the interaction of each stage/subsystem in the livestock industry (input - process - output of the livestock industry).

Sub-CLO

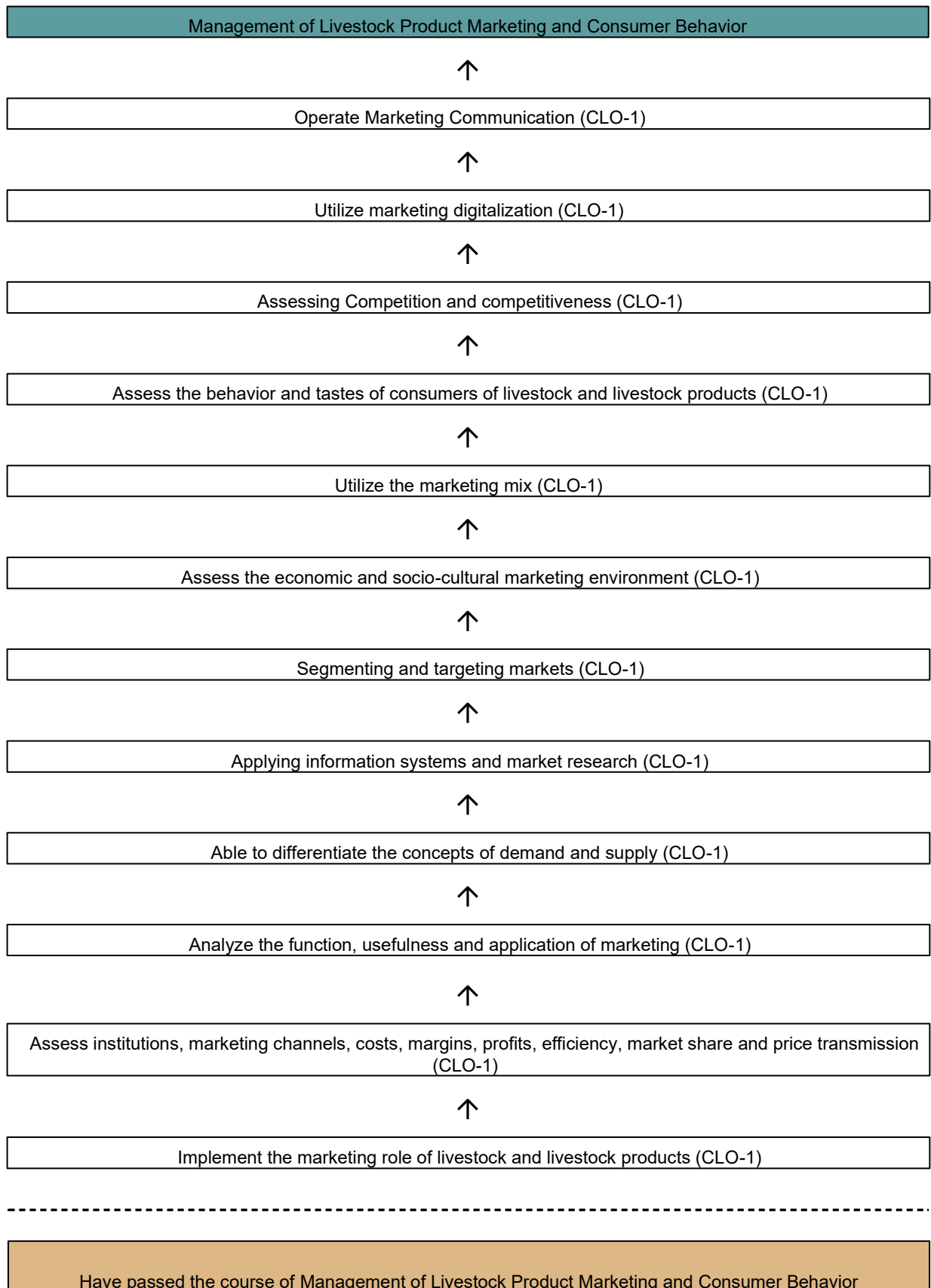
Sub-CLO 1: Able to identify the stages of production and describe the interaction of each stage/subsystem in the livestock cultivation system (input - process - output)

Sub- CLO 2: Able to identify the stages of production and describe the interactions of each stage/subsystem in the feed production system

Sub-CLO 3: Able to identify the stages of production and describe the interactions of each stage/subsystem in the livestock product production system

Sub-CLO 4: Able to describe the interaction of supporting subsystems in the livestock industry to achieve efficient production levels (input - process - output)

Learning Analysis





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

| Course | Code | Course Group | Credits | Semester | Date of Preparation |
|---------------------------------|---|---|--|----------|---------------------|
| System Of Livestock Industry | 23I01120102 | Engineering Animal Husbandry | 2 | 3 | June 2023 |
| Authority | Developer Lecturer | Course Coordinator | Head of study Program | | |
| | Prof. Dr. Ir. Jasmal A Syamsu, M.Si, IPU, ASEAN Eng Dr. Ir. Hikmah, S.Pt, M.Si, IPU, ASEAN Eng Dr. Ir. Sahiruddin, M.Si, IPM, ASEAN Eng Prof. Dr. Ir. Hastang, M.Si, IPU | Prof. Dr. Ir. Jasmal A Syamsu, M.Si, IPU, ASEAN., Eng | Dr. Agr. Ir. Renny Fatmyah Utamy, S. Pt., M. Agr., IPM | | |
| Course Learning Outcomes | ILOs that are imposed on the course | | | | |
| | ILO-3 | Mastering concepts and solving animal husbandry problems based on data, science and scientific methods. | | | |
| | ILO-5 | Able to make appropriate decisions in the context of problem solving, based on the results of data analysis and information. and information. | | | |
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| | ILO⇒ Course Learning Outcomes (CLO) | | | | |
| | Upon completion of this course, it is expected that: | | | | |
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| | CLO⇒ Sub-CLOs | |
| | CLO-1-4 | Able to identify the stages of production and describe the interaction of each stage/subsystem in the livestock cultivation system (input - process - output) |
| | | Able to identify the stages of production and describe the interactions of each stage/subsystem in the feed production system |
| | | Able to identify the stages of production and describe the interactions of each stage/subsystem in the livestock product production system |
| | | Able to describe the interaction of supporting subsystems in the livestock industry to achieve efficient production levels (input - process - output) |

Correlation between ILOs/CLOs to Sub-CLOs

| ILOs that are imposed on the course | CLO | SUB-CLO | Form Assessment+ | | | | | Weight | Value | Student Score | |
|-------------------------------------|-------|-----------|------------------------------------|--------------------|-----------------------------|--------------------------|------------|--------|-------|---------------|------------------------|
| | | | Formative | Summative | | | | | | | |
| | | | | Group Presentation | Individual Paper Assignment | Practicum/Field Practice | Case Study | | | | Group paper Assignment |
| ILO-3 | CLO-1 | SUB-CLO-1 | Attendance and Activeness in class | 6 | 0 | 0 | 0 | 0 | 6 | | |
| ILO-3 | CLO-1 | SUB-CLO-2 | Attendance and Activeness in class | 3.5 | 3.5 | 0 | 0 | 0 | 7 | | |
| ILO-3 | CLO-1 | SUB-CLO-3 | Attendance and Activeness in class | 8 | 4 | 0 | 0 | 0 | 12 | | |
| ILO-3 | CLO-1 | SUB-CLO-4 | Attendance and Activeness in class | 7 | 0 | 0 | 3 | 0 | 10 | | |
| ILO-3 | CLO-1 | SUB-CLO-5 | Attendance and Activeness in class | 3.25 | 0 | 0 | 3.25 | 0 | 6.5 | | |
| ILO-3 | CLO-1 | SUB-CLO-6 | Attendance and Activeness in class | 3.25 | 0 | 0 | 3.25 | 0 | 6.5 | | |

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|--|---|------------|------------------------------------|-------|------|---|------|------|------|--|--|
| ILO-3 | CLO-1 | SUB-CLO-7 | Attendance and Activeness in class | 3.5 | 0 | 0 | 3.5 | 0 | 7 | | |
| ILO-3 | CLO-1 | SUB-CLO-8 | Attendance and Activeness in class | 0 | 3.25 | 0 | 0 | 3.25 | 6.5 | | |
| ILO-3 | CLO-1 | SUB-CLO-9 | Attendance and Activeness in class | 6.25 | 0 | 0 | 6.25 | 0 | 12.5 | | |
| ILO-3 | CLO-1 | SUB-CLO-10 | Attendance and Activeness in class | 3.5 | 3.5 | 0 | 0 | 0 | 7 | | |
| ILO-3 | CLO-1 | SUB-CLO-11 | Attendance and Activeness in class | 3.5 | 3.5 | 0 | 0 | 0 | 7 | | |
| ILO-3 | CLO-1 | SUB-CLO-12 | Attendance and Activeness in class | 0 | 7 | 0 | 0 | 5 | 12 | | |
| | | | | 47,75 | | | | | 100 | | |
| Course Description | <p>The livestock industry system is a series of management activities and operationalizes inputs, processes and outputs. Inputs are raw materials, labor, land, transportation, electricity, facilities and infrastructure needed in livestock production. Materials include livestock as seedlings, feed, medicines, etc. Processes are all activities that operationalize the change from initial materials to the desired final production. While output is all the final results obtained from the process stage and is suitable for sale or market. In relation to this, the focus of the Livestock Industry System is the effort to control an efficient, competitive, profitable and sustainable livestock industry production process. The subject matter of this course is the interaction between the stages or flow of production in animal husbandry (input - process - output), the application of management principles, the utilization of resources and infrastructure, management control to improve quality, the concept of competitiveness and marketing.</p> | | | | | | | | | | |
| Learning Materials / Subject Matter | <p>Write down the study materials and elaborate on the learning materials in the subject matter that will be studied by students in accordance with the Sub-CLOs mentioned above.</p> <ol style="list-style-type: none"> 1. Stages of production and interaction of livestock cultivation subsystems <ol style="list-style-type: none"> a. Beef ruminant cultivation b. Dairy ruminant farming c. Broiler poultry farming d. Layer poultry farming 2. Stages of production and interaction of feed production and use subsystems <ol style="list-style-type: none"> a. Production planning, supply and stocking of feed ingredients subsystem b. Feed formulation, processing and packaging subsystem c. Feed warehousing and distribution subsystem 3. Stages of production and interaction of livestock product harvesting and processing subsystems <ol style="list-style-type: none"> a. Meat, milk and egg harvesting subsystem b. Processing and packaging subsystem of processed livestock products c. Supply chain system, and system requirements wet and semi-wet pre-harvest cold chain requirements | | | | | | | | | | |

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| | <p>d. Product handling and distribution</p> <p>4. Environmental/external factors and techniques to improve production efficiency in the livestock industry</p> <p>a. Livestock business system</p> <p>b. External environment of livestock agribusiness activities</p> <p>c. Supply chain system and value chain of livestock business</p> <p>d. Analysis of subsystem relationships in improving the efficiency of livestock business production</p> |
| Reference | Key Reference |
| | <p>New York.</p> <p>Gupta S and Starr M. 2014. Production and Operations Management Systems. CRC Press - Taylor and Francis Group. Boca Raton, London, New York.</p> <p>Jahnke HE. 1982. Livestock Production Systems And Livestock Development In Tropical. Kieler Wissenschaftsverlag Vauk Postfach 4403, D - 2300 Kiel 1, Germany.</p> <p>Rosati A, A. Tewolde and C. Mosconi. 2007. Animal production and animal science worldwide. Wageningen Academic Publishers The- Netherlands.</p> <p>FAO. 1999. Livestock Industries of Indonesia prior to the Asian Financial Crisis. FAO Regional Office for Asia-Pacific. RAP Publication 1999/37.</p> <p>Lowinsider. industrial system definition. https://www.lawinsider.com/dictionary/industrial-system</p> |
| | Additional Reference |
| | <p>1. Siregar,A.R. 2011. Globalisasi Persaingan Usaha, Humaiora, Bandung</p> <p>2.Siregar, A.R. 2013. Perilaku Terhadap Persaingan Usaha, IPB Press, Bogor</p> <p>2. Kotler, P dan G. Armstrong. 1996. Dasar-dasar Pemasaran.Jilid 2.Edisi Bahasa Indonesia.Prentice Hall.</p> <p>3. Kotler, P. 2001. Manajemen Pemasaran di Indonesia : Analisis, Perencanaan, Implementasi dan Pengendalian. Salemba Empat. Jakarta.</p> <p>4. Mubyarto. 1995. Pengantar Ekonomi Pertanian. Edisi Ketiga. LP3ES. Jakarta.</p> <p>5. Salvatore, D. 1991. Teori Ekonomi Mikro, Teori dan Soal Jawab. Penerbit Erlangga. Jakarta.</p> |

| Teaching Team | | | | | | | |
|---------------------|---|---|---|--|--------|--|-------------------------|
| Course requirements | | | | | | | |
| Meaning To | Sub CLO (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 describe the objectives, concepts, classification, scope of the livestock industry system | Completeness of explanation of the objectives, concepts, classification, scope of the livestock industry system | Criteria: Accuracy of explanation, Form: written exam (test) and structured assignment | Form of Learning: Lecture <input type="checkbox"/> MP: Group discussion. TM (1x2x50") | | <ul style="list-style-type: none"> - Definition of - Scope - Relationship with other fields of science | 5 |
| 2 | Able to describe the objectives, concepts, classification, scope of the livestock industry system | Completeness of description Operational industry efficiency | Criteria: Accuracy of discussion and conclusion. Form: Structured assignments, presentations and discussions | BP: Case study MP: Interactive lecture, Group Discussion (SgD), TM: (1 x 2 x 50 | | <ul style="list-style-type: none"> - Absolute operational efficiency - Relative operational efficiency - Evaluation of efficiency and performance index - Efficiency improvement - Implementation in animal husbandry | 10 |

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| 3 | Able to perform performance measurement system | Ability to identify properties and perform measurements performance measurement system performance measurement | Criteria: Accuracy in identifying and analyzing. Form: laboratory practicum, group presentation group presentations and exam (test) | BP: Case Study and Practicum Learning method: Case study & Simulation (RpS) and presentation. group TM: (2x2x50") | <ul style="list-style-type: none"> - Introduction of system - PMS (Performance System Measurement) to increase service value Structural model of <ul style="list-style-type: none"> - Stages modeling - Measurement methods and strategies Implementation in the field of animal husbandry | 5 |
| 4 | Able to do Promotion and Marketing of livestock industry products | Completeness of Promotion and Marketing of livestock industry products | Criteria: Accuracy of explanation Form of structured assignments and exams (tests) | BP: Case study, PBL and giving exam TM: (1x2x50") | <ul style="list-style-type: none"> - Industry system application in promotion - Application of industrial system in marketing - Product sampling technique | 5 |

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| | | | | | | e Implementation in the field of animal husbandry | |
| 5 | Able to do. System integration and modeling | Completeness of system integration and modeling | Accuracy of explanation. Banrtuk: group assignments, presentations and exams (tests) | BP: Case study, PT, presentation. Learning method Case study Discussion TM: (2x2x50"). | | <ul style="list-style-type: none"> - System integration - Types of production system models - system identification - mathematical model - dynamic model - Multidisciplinary system - Implementation in animal husbandry field | 10 |
| 6 | Able to integrate Occupational Health and Safety Management System | Completeness of integration of Occupational Health and Safety Handling System | Criteria: Accuracy of explanation. Form: discussion and exam (test) | BP: Case study, and giving exam MP: Disclusion (SgD) TM: 1x2x50" | | <ul style="list-style-type: none"> - Financial and delivery system - Optimization model - System policy - Implementation in the field of animal husbandry | 10 |

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| 7 | Able to develop production system modeling | Completeness of production system modeling | Criteria: Accuracy of explanation. Form: Structured assignments, interaction and written exams (tests) | BP: Case study MP: Discovery Learning TM: (2x2x50") | | <ul style="list-style-type: none"> - Production planning and production - Production modeling - inventory system - Production process and system - Implementation in the field of animal husbandry | 10 |
| 8 | Able to apply human resource management and work comfort | Ability to manage human resources and work comfort work comfort | Criteria: Accuracy of assessment, measurement and analysis Form: simulation or practicum, group presentation | BP: Case study, practicum and presentation MP: Small Group Discussion, TM: 2x2x50" Practice: 1x1x170" | | <ol style="list-style-type: none"> 1. Human factors 2. Ergonomics (work comfort) Mental management HR 3. Implementation in the field of animal husbandry | 10 |
| 9 | Able to carry out management, information and decision-making techniques | Completeness of explanation of management, information and decision-making techniques | Criteria: Accuracy of explanation and planning documents and implementation of the quality assurance system. Form: practicum/simulation, group presentations and taking the exam (test) | BP: Project, and SgD MP: Project Based Learning TM: 3x2x50" Practice: 2x1x170" | | <ol style="list-style-type: none"> 1. Basics of project management 2. Needs in project management 3. Principles in decision making | 5 |

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| | | | | | | 4. Implementat ion in the field of animal husbandry | |
| 10 | Able to develop and implement change management | Completeness of the plan and implementation of change management | Criterion: Accuracy of explanation. Form: discussion and exam (test) | BP: Case study, and give exam MP: Disclusion (SgD) TM: 1x2x50" | | -Definition -Principles of change management -System integration concept framework -Management for change planning -Implementation in the field of animal husbandry | 5 |
| 11 | Able to develop a process control system to improve quality | Completeness of the arrangement of the process control system plan to improve quality | Criteria: Accuracy of explanation. Form: Structured assignments, interaction and written exams (tests) | BP: Case study MP: Discover y Learning TM: (2x2x50") | | - Approach es to production process control - Integration of production process <i>control: run-to- run control</i> Implementatio n in the field of animal husbandry | 5 |
| 12 | Able to develop short- term control | Ability to exercise short- term control | Criteria: Accuracy of assessment, measurement and analysis | BP: Case study, practicum and presentation MP: Small | | - Data pooling - Input process - Two-stage charting | 5 |

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| | | | Form: simulation or practicum, group presentation | Group Discussion, TM: 2x2x50" Practice: 1x1x170" | | <ul style="list-style-type: none"> - Implementation on farm - Performance assessment - Implementation in animal husbandry | |
| 13 | Able to do project scheduling | Completeness of arrangement Industrial project Scheduling farm | <p>Criteria: Accuracy of explanation and planning documents and implementation of quality assurance system.</p> <p>Form: practicum/simulation, group presentations and taking exams (tests)</p> | <p>BP: Project, and SgD MP: Project Based Learning</p> <p>TM: 3x2x50"</p> <p>Practice: 2x1x170"</p> | | <ul style="list-style-type: none"> - Introduction - Estimation of project activity duration - Relationship between Activities - Create production process/project scheduling - Path analysis for several production examples - Implementation in the field of animal husbandry | 5 |
| 14 | Assignment presentation and Learning evaluation | Assignment Completion | <p>Criteria: Accuracy of explanation and planning documents and implementation of quality assurance system.</p> <p>Form: practicum/simulation, group</p> | <p>BP: Project, and SgD MP: Project Based Learning</p> <p>TM: 3x2x50"</p> <p>Practice: 2x1x170"</p> | | <ul style="list-style-type: none"> -Presentation of each group's assignment in class -Learning feedback -Material analysis and delivery | 10 |

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|----|--|--|---|--|--|--|-----|
| | | | presentations and taking exams (test) | | | | |
| 16 | | | | | | | 100 |
| | | | | | | | |

Matrix ILO, CLO, and Assessment Method

| ILO / CLO | CLO-1 | CLO-2 |
|-------------|--|-------|
| ILO-4(KU1) | <p>Group Presentation (Weight 6%) Individual Paper Assignment (Weight 3.5%) Group Presentation (Weight 3.5%) Individual Paper Assignment (Weight 4%) Group Presentation (Weight 8%) Case Study (Weight 3%) Group Presentation (Weight 7%) Case Study (Weight 3.25%)</p> <p>Group Presentation (Weight 3.25%) Case Study (Weight 3.25%) Group Presentation (Weight 3.25%) Case Study (Weight 3.5%) Group Presentation (Weight 3.5%) Individual Paper Assignment (Weight 3.25%) Group Paper Assignment (Weight 3.25%) Group Presentation (Weight 6.25%) Case Study (Weight 6.25%) Individual Paper Assignment (Weight 3.5%) Group Presentation (Weight 3.5%) Group Presentation (Weight 3.5%) Individual Paper Assignment (Weight 3.5%) Group Paper Assignment (Weight 5%) Individual Paper Assignment (Weight 7%)</p> | |
| ILO-7 (KK1) | <p>Group Presentation (Weight 6%) Individual Paper Assignment (Weight 3.5%) Group Presentation (Weight 3.5%) Individual Paper Assignment (Weight 4%) Group Presentation (Weight 8%) Case Study (Weight 3%) Group Presentation (Weight 7%) Case Study (Weight 3.25%)</p> <p>Group Presentation (Weight 3.25%) Case Study (Weight 3.25%) Group Presentation (Weight 3.25%) Case Study (Weight 3.5%) Group Presentation (Weight 3.5%) Individual Paper Assignment (Weight 3.25%) Group Paper Assignment (Weight 3.25%) Group Presentation (Weight 6.25%) Case Study (Weight 6.25%) Individual Paper Assignment (Weight 3.5%) Group Presentation (Weight 3.5%) Group Presentation (Weight 3.5%) Individual Paper Assignment (Weight 3.5%) Group Paper Assignment (Weight 5%) Individual Paper Assignment (Weight 7%)</p> | |
| ILO-9 (KK3) | <p>Group Presentation (Weight 6%) Individual Paper Assignment (Weight 3.5%) Group Presentation (Weight 3.5%) Individual Paper Assignment (Weight 4%) Group</p> | |

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| | <p>Presentation (Weight 8%) Case Study (Weight 3%) Group Presentation (Weight 7%) Case Study (Weight 3.25%) Group Presentation (Weight 3.25%) Case Study (Weight 3.25%) Group Presentation (Weight 3.25%) Case Study (Weight 3.5%) Group Presentation (Weight 3.5%) Individual Paper Assignment (Weight 3.25%) Group Paper Assignment (Weight 3.25%) Group Presentation (Weight 6.25%) Case Study (Weight 6.25%) Individual Paper Assignment (Weight 3.5%) Group Presentation (Weight 3.5%) Group Presentation (Weight 3.5%) Individual Paper Assignment (Weight 3.5%) Group Paper Assignment (Weight 5%) Individual Paper Assignment (Weight 7%)</p> | |
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Evaluation Type and Assessment Weight

| Type | Assessment Weight |
|-----------------------------|-------------------|
| Group Presentation | 47.75 |
| Individual Paper Assignment | 24.75 |
| Case Study | 19.25 |
| Group Paper Assignment | 8.25 |
| Practicum/Field Practice | 0 |
| 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 | | | | |
| | | | | Individual Paper Assignment | Quiz | | | |
| ILO-9 | CLO- 1 | SUB- CLO- 1 | Attendance and Activeness in class | 0 | 0 | 6 | 6 | |
| ILO-9 | CLO- 1 | SUB- CLO- 2 | Attendance and Activeness in class | 3.5 | 0 | 3.5 | 7 | |
| ILO-9 | CLO- 1 | SUB- CLO- 2 | Attendance and Activeness in class | 4 | 0 | 8 | 12 | |
| ILO-9 | CLO- 1 | SUB- CLO- 4 | Attendance and Activeness in class | 0 | 3 | 7 | 10 | |
| ILO-9 | CLO- 1 | SUB- CLO- 5 | Attendance and Activeness in class | 0 | 3.25 | 3.25 | 6.5 | |
| ILO-9 | CLO- 1 | SUB- CLO- 6 | Attendance and Activeness in class | 0 | 3.25 | 3.25 | 6.5 | |
| ILO-9 | CLO- 1 | SUB- CLO- 7 | Attendance and Activeness in class | 0 | 3.5 | 3.5 | 7 | |
| ILO-9 | CLO- 1 | SUB- CLO- 8 | Attendance and Activeness in class | 3.25 | 0 | 0 | 6.5 | |
| ILO-9 | CLO- 1 | SUB- CLO- 9 | Attendance and Activeness in class | 0 | 6.25 | 6.25 | 12.5 | |
| ILO-9 | CLO- 1 | SUB- CLO- 10 | Attendance and Activeness in class | 3.5 | 0 | 3.5 | 7 | |

| | | | | | | | | | |
|-------|--------|-------------|------------------------------------|-------|-------|-------|-----|--|--|
| ILO-9 | CLO- 1 | SUB- CLO-11 | Attendance and Activeness in class | 3.5 | 0 | 3.5 | 7 | | |
| ILO-9 | CLO-1 | SUB- CLO-12 | Attendance and Activeness in class | 7 | 0 | 0 | 12 | | |
| | | | | 24.75 | 19.25 | 47.75 | 100 | | |



HASANUDDIN UNIVERSITY
FACULTY OF ANIMAL SCIENCE
BACHELOR PROGRAMME IN ANIMAL HUSBANDRY

STUDENT STRUCTURED ASSIGNMENT PLAN

| | | | | | |
|---------------------------|---|----------------|---|-----------------|-----------|
| Course | Animal Husbandry Industry System | | | | |
| Code | 23101120102 | Credits | 2 | Semester | 3 (Three) |
| Developer Lecturer | Prof. Dr. Ir. Jasmal A Syamsu, M.Si, IPU, ASEAN., Eng | | | | |

| Task Form | Task Time |
|---------------------|------------------|
| Documents/Magazines | 2 weeks |

Task Title
Production stages and livestock farming subsystem interactions

Course Learning Outcomes
Sub-CLO 2: Identify the stages of production and describe the interaction of each stage/subsystem in the livestock cultivation system (Input-Process-output of livestock cultivation) (CLO 1)

Task Description

The student's assignment is a group task to make a Paper Assignment 'Explaining the stages of production and interaction of livestock cultivation subsystems (poultry, dairy cattle, beef cattle)' by choosing 1 of the sub-topics: Identification, Formulation, Strategy, and Hypothesis. The preparation of the paper follows the following procedure:

- 1) Each group chooses 1 of the sub-topics: functions, uses or applications of marketing in animal husbandry.
- 2) Discuss among the group members to identify the process stages for each of the selected sub-topics. Information related to the chosen sub-topic can be obtained from textbooks and journals.
- 3) Create a paper with the following systematic:
 - I. Introduction
 - II. Discussion
 - III. Conclusion
 - IV. Literature
- 4) Group presentation

Assignment Method
1. Conducted in groups using the Small Group Discussion (SGD) learning method.

Form and Format of Output
a. Objective: Stages of production and interaction of livestock cultivation
b. Output Form: Paper

| Indicators, Criteria and Assessment Weight | |
|---|---------|
| Indicators: | |
| 1. Systematicity: 10% | |
| 2. Accuracy of analysis: 25% | |
| 3. Depth of material: 30% | |
| 4. Novelty and reputation of library materials: 10% | |
| 5. Team cohesiveness: 10% | |
| 6. Mastery of the material: 15% | |
| Implementation Schedule | |
| 1. | 2 weeks |
| Other | |
| - | |
| Reference List | |
| 1. Gupta S and Starr M. 2014. Production and Operations Management Systems. CRC Press - Taylor and Francis Group. Boca Raton, London, New York. | |
| 2. Jahnke HE. 1982. Livestock Production Systems And Livestock Development In Tropical. Kieler Wissenschaftsverlag Vauk Postfach 4403, D2300 Kiel 1, Germany. | |
| 3. Rosati A, A. Tewolde and C. Mosconi. 2007. Animal production and animal science worldwide. Wageningen Academic Publishers The- Netherlands. | |
| 4. FAO. 1999. Livestock Industries of Indonesia prior to the Asian Financial Crisis. FAO Regional Office for Asia-Pacific. RAP Publication 1999/37. | |

| DEFINITION OF 1 CREDIT IN LEARNING FORM | | | | hours |
|---|---|--------------------------|--------------------------|-------|
| A | Lecture, Reception, Tutorial | | | |
| | Face to Face | Structured Assignment | Independent Learning | |
| | 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 Learning | |
| | 100 minutes/week/semester | | 70 minutes/week/semester | 2,83 |
| C | Practicum, 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, which can effectively facilitate the fulfilment of graduate learning outcomes. | |