



**Course Module**  
**Departement of Animal Science**  
**Faculty of Animal Science**  
**Universitas Brawijaya**

Module Name	Meat Production
Module Level	Undergraduate Program of Animal Science
Code	PEP61002
Subtitle	-
Courses	Meat Production
Semester (s)	3
Person responsible for the module	-
Lecturer	<ol style="list-style-type: none"> <li>1. Dr. Ir. Kuswati, MS, IPM, ASEAN Eng</li> <li>2. Dr. Ir. Moch Nasich, MS</li> <li>3. Dr. Ir. Hary Nugroho, MS</li> <li>4. Irida Novianti, S.Pt, M.Agr.Sc</li> <li>5. Wike Andre Septian, S.Pt, M.Si</li> </ol>
Language	Bahasa Indonesia, English
Relation to curriculum	Study Program: Animal Science Specialization: Animal Production Type: Compulsory
Type of Teaching contact hours	Contact hours and class size separately for each teaching method: lecture, lesson, project, practical etc.
Workload	Courses : 90,67 hours/semester Practical : 1,70 hours/semester
Credit Weight	3 credits or 5.1 (ECTS)
Requirements according to the examination regulations	-
Recommended prerequisites	-
Requirements for Passing the Course	-
Prerequisite Courses	Biology and Anatomy and Animal Physiology
Module objectives/intended learning outcomes	Learning outcomes are: <ol style="list-style-type: none"> <li>1. Developing awareness of Animal welfare and halal issue (LO 3)</li> <li>2. Capability to develop knowledge and comprehensive mindset based on Animal science and industry (LO4)</li> <li>3. Proficient in biology, physiology, animal nutrition, breeding, farm management, and implementation in Animal Science (LO6)</li> <li>4. Capability to perform an independent, standardized, measurable, effective, efficient and sustainable work (LO7)</li> </ol> Course Learning Outcomes:

	<ol style="list-style-type: none"> <li>1. Explain, describe, and predict the potential population and demand for beef cattle</li> <li>2. Identify and mention breeds of beef cattle and the potential of each breed.</li> <li>3. Describe the period of animal growth, the factors affecting animal growth, and the manipulation of beef cattle growth</li> <li>4. Demonstrate the ability to measure vital statistics and BCS, predict body weight, compare body parts of animal visually, and compare ideal and non-ideal animals, and evaluate carcass production and quality.</li> <li>5. Create a technical workflow (SOP) for routine maintenance (deworming, creep feeding, animal identification, dehorning, castration), animal transportation, and cattle slaughter</li> <li>6. Design house and provide examples of the application of animal welfare in animal transportation, raising, and slaughtering animals (LO3, LO7).</li> </ol>
	<p>Objectives: The course discusses the role of beef cattle in providing meat for the community; government policies in beef cattle farming; various breeds of beef cattle developed for meat production; growth and development of beef cattle and the factors that influence them. Visual animal assessment and measurement of body condition score related to management and judging, and evaluation of carcass production and quality. Routine maintenance techniques and design of pens and transportation equipment is in accordance with animal welfare principles.</p>
	<p>Knowledge: Able to recognize and understand the state of The potential population and demand for beef cattle, Able to explain the period of animal growth, factors that affect animal growth, as well as beef cattle growth engineering</p>
	<p>Skills: cognitive- Able to identify and mention breeds of cattle and the potential of each breed, the principles of animal welfare. Physicomotoric-Students are able to explain animal transportation management, application of slaughterhouse management, housing management.</p>
	<p>Competences: Able to design stables and provide examples of the application of animal welfare in animal transportation, raising and slaughtering animals, assess body condition score/BCS and beef cattle judging, design housing, design sloughthouse, evaluated carcass quality</p>
<p>Learning Content</p>	<p>The topics include:</p> <ol style="list-style-type: none"> <li>1. Introduction to the beef cattle industry and the dynamics of the development of beef cattle <ul style="list-style-type: none"> <li>- Beef cattle population</li> <li>- Supply chain and demand</li> </ul> </li> </ol>

	<ul style="list-style-type: none"> <li>- The need for beef cattle products</li> </ul> <ol style="list-style-type: none"> <li>2. Breeds of large, small ruminant beef cattle and pigs <ul style="list-style-type: none"> <li>- Cow</li> <li>- Goats</li> <li>- Buffalo</li> <li>- Sheep</li> <li>- Pigs</li> </ul> </li> <li>3. Growth and Development of Beef Cattle <ul style="list-style-type: none"> <li>- Growth Period</li> <li>- Methods</li> <li>- Growth Manipulation</li> </ul> </li> <li>4. Housing <ul style="list-style-type: none"> <li>- Cowshed</li> <li>- Goat Pen</li> <li>- Sheepfold</li> <li>- Pig Coop</li> </ul> </li> <li>5. Visual Animal Assessment (Judging and BCS) <ul style="list-style-type: none"> <li>- Vital Statistics</li> <li>- Judging</li> <li>- BCS</li> </ul> </li> <li>6. Technical Routine Raising <ul style="list-style-type: none"> <li>- Castration</li> <li>- Dehorning</li> <li>- Identification system (ear tag, ear notch, ear tattoos)</li> </ul> </li> <li>7. Animal Welfare</li> <li>8. Transportation of Beef Cattle</li> <li>9. Slaughter of Animals and Slaughterhouses</li> <li>10. Evaluation of Carcass Production and Meat Quality</li> </ol>
<p>Study and examination requirements and forms of examination</p>	<ul style="list-style-type: none"> <li>- Attendance &gt;80%</li> <li>- The final score of all the components of the PBM evaluation &gt;44</li> </ul> <p>The final score component:</p> <ul style="list-style-type: none"> <li>- 30% Midterm Exam</li> <li>- 30% Final Exam</li> <li>- 20% Practicu</li> <li>- 10% Structured Assignments</li> <li>- 10% Quiz</li> </ul> <p>A : 80 &lt; Final Score ≤ 100  B+ : 75 &lt; Final Score ≤ 80  B : 69 &lt; Final Score ≤ 75  C+ : 60 &lt; Final Score ≤ 69  C : 55 &lt; Final Score ≤ 60  D : 50 &lt; Final Score ≤ 55  D+ : 44 &lt; Final Score ≤ 50</p>
<p>Test Terms and Forms</p>	<p>Examination requirements: A minimum of 80% attendance to attend the final exam</p>

	Forms of examination: Multiple choices and Essay
Learning Media	Projector and screen, Zoom application, Google Classroom, e-book, WA Group, VLM 2 UB
References	