



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

Module Name	Ruminants Production Management
Module Level	Undergraduate Study Program of Animal Science
Code	PEP60015
Subtitle	-
Courses	Ruminants Production Management
Semester (s)	5
Person responsible for the module	-
Lecturer	<ol style="list-style-type: none"> <li>1. Dr. Ir. Tri Eko Susilorini, MP. IPM.ASEAN Eng</li> <li>2. Dr. Ir. Puguh Surjowardojo, MS.</li> <li>3. Dr. Ir. Kuswati, MS. IPM.ASEAN.Eng</li> <li>4. Dr. Ir. Moch. Nasich, MS.</li> <li>5. Dr. Ir. Agus Budiarto, MS</li> <li>6. Dr. Ir. Hary Nugroho, MS</li> <li>7. Aswah Ridhowi, S.Pt. M.Sc.</li> <li>8. Firmansyah Tri Saputra, S.Pt.MP.</li> <li>9. Dr. Irida Novianti, S.Pt.M.Agr.Sc.</li> <li>10. Wike Andre Septian, S.Pt.M.Si</li> </ol>
Language	Bahasa Indonesia, English
Relation to curriculum	Study Program: Animal Science Specialization: Animal Science Type: Compulsory/ <del>Non-Compulsory</del>
Type of Teaching contact hours	Contact hours and class size separately for each teaching method: lecture, lesson, project, practical etc.
Workload	Courses : 45,33 hours/semester Practical : 1,70 hours/semester
Credit Weight	2 credits or 3.4 (ECTS)
Requirements according to the examination regulations	-
Recommended prerequisites	-
Requirements for Passing the Course	-
Prerequisite Courses	Beef Cattle Production Science, Dairy Animal Production Science, Animal Breeding Science, Reproductive Science
Learning Outcomes	Learning Outcomes: <ol style="list-style-type: none"> <li>1. Developing awareness of Animal welfare and halal issue (LO 3).</li> <li>2. Capability to analyse the development and implementation of technology through humanities, ethical</li> </ol>

	<p>and scientific value as to provide appropriate solutions and ideas (LO 5)</p> <ol style="list-style-type: none"> <li>3. Capability to perform effective team work and a self-evaluation (LO 8).</li> <li>4. Capability to implement technology in Animal Science to increase productivity, efficiency, quality and sustainability based on breeding, nutrition, processing, management as well as to organize an entrepreneurship concept and a sustainable production system (LO 13)</li> </ol> <p>Course Learning Outcomes: After completing this course students are able to:</p> <ol style="list-style-type: none"> <li>1. Apply ruminant animal industry-oriented management and technology based on the concept of animal welfare</li> <li>2. Design ruminant animal businesses based on animal production systems based on their physiological status</li> <li>3. Evaluate production management in the ruminant animal industry effectively and efficiently</li> </ol> <p>Analyze and develop the potential of the ruminant animal industry</p>
	<p>Objectives: This course consists of the process of analyzing, designing, implementing, and evaluating the management of dairy and meat production including cattle, buffalo, goats, and sheep</p> <p>Knowledge: Able to apply management and technology oriented to the ruminant animal industry based on the concept of animal welfare</p> <p>Skills: cognitive- Able to design ruminant animal businesses based on animal production systems according to the physiological status. Phsycomotoric-Students are Able to evaluate production management in the ruminant animal industry effectively and efficiently, and able to analyze and develop the potential of the ruminant animal industry</p> <p>Competences: Able to Dairy Animal and Beef Cattle Judging, Dairy Animal and Beef Cattle Raising Management, Ruminant Animal Production System, Dairy Animal and Beef Cattle Health and Welfare, and Planning, Designing Dairy Animal and Beef Cattle Industry</p>
Learning Content	<p>The topics include:</p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Dairy Animal and Beef Cattle Judging</li> <li>3. Dairy Animal and Beef Cattle Raising Management</li> <li>4. Ruminant Animal Production System</li> <li>5. Dairy Animal and Beef Cattle Health and Welfare</li> <li>6. Planning and Designing Dairy Animal and Beef Cattle Industry</li> </ol> <p>Evaluate the Dairy Animal and Beef Cattle Industry Business</p>

<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> <p>Forms of examination:  Multiple choices and Essay</p>
<p>Learning Media</p>	<p>Projector and screen, Zoom application, Google Classroom, e-book, WA Group</p>
<p>References</p>	<ol style="list-style-type: none"> <li>1. Devendra, C. 2007. Goats: Biology, Production, and Development in Asia. Academy of Sciences Malaysia.Malaysia.</li> <li>2. Kuswati dan T.Susilowati.2017. Industri Sapi Potong. First Edition. UB Press. Malang.</li> <li>3. Moran, J. 1993. Calf Rearing. Rhone-Poulenc Animal Nutrition PTY.LTD. Melbourne.</li> <li>4. Schmidt and Van Vleck. 1974. Principles of Dairy Science. W.H. Freeman and Company. USA.</li> <li>5. Susilorini, T.E. and Kuswati. 2020. Budidaya Kambing dan Domba. First Edition. UB Press. Malang.</li> <li>6. , S.G.2010. Goat Science and Production. Wiley Blackwell. USA.</li> <li>7. Surjowardojo, P. 2019. Ekspresi Mastitis Pada Sapi Perah. Second Edition. INDO-PRESS Publishing in collaboration with Aditya Media Publishing. Malang</li> <li>8. Surjowardojo, P., et al. 2019. Mastitis Pada Sapi Perah. UB Press. Malang</li> <li>9. Surjowardojo, P., et al. 2019. Aneka Ternak Perah. PENERBIT BASKARA MEDIA - Aditya Media Group. Malang</li> <li>10. , T.E., M.E. Sawitri dan Muharlieni. 2008. 22 Ternak Potensial. Sixth Edition. Penerbit Penebar Swadaya. Jakarta.</li> </ol>

	<p>11. Taylor, R.E and T.G.Field. 2004. Scientific Farm Animal Production: An Introduction to Animal Science. The ighth edition. Pearson/Prentice Hall.USA</p> <p>Trimberger, G.W., W.M. Etgen dan D.M. Galton. 1987. Dairy Cattle Judging Techniques. Fourth Edition. Waveland Press Inc. Illinois.</p>
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