

## Course Outline

Institut Pertanian Bogor - ACICIS' Agriculture Semester Program

<b>Unit name</b>	<b>Animal Breeding (PTP342)</b>
<b>Department/ Faculty</b>	Animal Science Production and Technology Faculty of Animal Science
<b>Course credit (SKS)</b>	3 (2-3) (2 hours of lecture, 3 hours of laboratory exercise)
<b>Offered in</b>	Odd semester (September-January)
<b>Pre-requisite</b>	PTP341 – Animal Genetics
<b>Course Coordinator</b>	Jakaria
<b>Language</b>	Indonesian    English <input checked="" type="checkbox"/> Both
<b>Course description</b> This course discusses of selection and mating system to improve the genetic qualities of animal. Also discussed are various genetic parameters such as heritability, repeatability, phenotypic and genetics correlations applied in improving the qualities of high economic values in animal; application of molecular genetics in animal breeding and preservation of genetic resources of local animal.	
<b>Learning outcomes</b> Students are able to explain and understand about animal breeding (selection and crossbreeding), genetic parameters, genetic markers, and its application to improve the quality of livestock productivity through genetic improvement to sustainably utilize and conservation of animal genetic resources.	
<b>Indicative assessment</b> <ol style="list-style-type: none"><li>1. Written examination (mid and final) 80%</li><li>2. Paper task 10%</li><li>3. Oral presentation 10%</li></ol>	
<b>Contact Hours</b> <ol style="list-style-type: none"><li>1. Theory: 2 hours/week</li><li>2. Practice: 3 hours/week</li></ol>	
<b>Readings</b> <ol style="list-style-type: none"><li>1. Richard M. Bourdon. 2000. Understanding Animal Breeding. Charles E. Steward, Jr. Publisher. USA.</li><li>2. W. A. Becker. 1992. Manual Quantitative Genetics. Academic Enterprises 5th</li><li>3. Daniel L. Hartl. 1987. A Primer of Population Genetics 2th Edition. Sinauer Association, INC. Publisher.</li></ol>	