

<b>Module Name</b>	<b>Genetics</b>
<b>Module Level, if applicable</b>	Intermediate
<b>Code if Applicable</b>	0210200678
<b>Subtitle, if applicable</b>	-
<b>Courses, if applicable</b>	0210200678 (Genetics)
<b>Semester(s) in which the module is taught</b>	3
<b>Person responsible for the module</b>	Dr. Ir. Agus Zainudin, MP. Dr. Ir. Erny Ishartati, MP
<b>Lecturer</b>	Dr. Ir. Agus Zainudin, MP. Dr. Ir. Erny Ishartati, MP
<b>Language</b>	Indonesian
<b>Relation to curriculum</b>	Compulsory Courses for undergraduate program in Department of Agrotechnology, Faculty of Agriculture and Animal Science.
<b>Type of teaching, contact hours</b>	Lecture, Project, Independent Learning
<b>Workload</b>	<ul style="list-style-type: none"> <li>● Lecture : 3 sks × 50 minutes × 16 weeks</li> <li>● Project : 3 sks × 60 minutes × 16 weeks</li> <li>● Independent Learning 3 sks × 60 minutes × 16 weeks</li> </ul>
<b>Credit points</b>	SKS 3 SCH x (1.5) = 4.5 ECTS
<b>Requirements according to the examination regulations</b>	1. Registered in this course 2. Minimum 80% attendance in this course
<b>Recommended prerequisites</b>	No prerequisites
<b>Module Objectives (Intended learning outcomes)</b>	On successful completion in this course, student should be able to: <ul style="list-style-type: none"> <li>● Understand the history and scope of genetics and the fine structure of genetic material</li> <li>● Understand the regulation and expression of genes and the cell life cycle</li> <li>● Understand mendelian and non-mendelian genetics</li> <li>● Understand linkage and crossover and mutation</li> <li>● Understand extra-chromosomal inheritance and sex determination and inheritance</li> </ul>

<b>Module Content</b>	<p>The course brief description through guided discussions with lecturers explains about the History and Scope of Genetics, Fine Structure of Genetic Materials, Regulation, gene expression and cell life cycle to introduction to population genetics and quantitative inheritance.</p>
<b>Study and examination requirements and forms of examination</b>	<p><b>Cognitive:</b> Midterm exam, Final exam, Quizzes, Assignments  <b>Affective:</b> Assessed from the element /variables achievement, namely (a) Contributions (attendance, active, role, initiative, and language), (b) Being on time, (c) Effort.</p>
<b>Media employed</b>	<p>Classical teaching tools with white board and power point presentation</p>
<b>Recommended Literature</b>	<p>For Class  A. Compulsory  - Balding, D.J., M. Bishop, and C. Cannings, 2003, Statistical Genetics second edition [Handbook] Vol I, John Wiley &amp; sons, Ltd., The Atrium, Southern Gate, Chichester, West Sussex. P.019  85Q, England.</p>