


## MODULE HANDBOOK

	<b>UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME</b>	<b>COURSE CODE: D10D-601014</b>
<b>Module designation</b>	Phytohormone Physiology	
<b>Semester in which the module is taught</b>	5	
<b>Person(s) responsible for the module</b>	<ol style="list-style-type: none"> <li>1. Dr. M. Nurzaman</li> <li>2. Dr. Tia Setiawati</li> <li>3. Rusdi, Ph.D</li> </ol>	
<b>Medium of instruction</b>	Indonesian	
<b>Relation to curriculum</b>	Elective course	
<b>Teaching methods</b>	Lectures, discussions, cooperative learning, and inquiry learning	
<b>Workload</b>	<p>Total workload : 5440 minutes = 90.67 hours</p> <p>Lectures, discussions, cooperative learning, and inquiry learning : 2 x 50 minutes x 16 weeks = 1600 minutes = 26.67 hours</p> <p>Exercises : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours</p> <p>Self-study : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours</p>	
<b>Credit points</b>	2,00 (3,62 ECTS)	
<b>Required and recommended prerequisites for joining the module</b>	Plant Physiology Plant Structure and Development	
<b>Module objectives/intended learning outcomes</b>	<ol style="list-style-type: none"> <li>1. Students are able to understand the concept of phytohormones</li> <li>2. Students are able to explain plant growth and development in response to phytohormones</li> <li>3. Students can apply phytohormones to improve plant quality with specific goals.</li> </ol>	
<b>Contents</b>	This course includes discussion of biological effects, properties and discovery, biosynthesis, mode of action, uptake and metabolism of plant hormones which include auxin, cytokinin, gibberellin, ethylene, abscisic acid.	
<b>Examination forms</b>	Quiz, midterm exam, assignment, and final exam	
<b>Study and examination requirements</b>	The minimum attendance in lectures is 80%. Final grades are evaluated based on Quizzes (25%), Assignments (25%), midterm exam (25%), and final exam (25%).	
<b>Reading lists</b>	<ol style="list-style-type: none"> <li>1. Peter J. Davies. 1995. Plant Hormones: Physiology, Biochemistry and Molecular Biology. Springer</li> <li>2. Peter J. Davies. 1987. Plant Hormones and their Role in Plant Growth and Development. Martinus Nijhof Publisher</li> <li>3. Girdhar K. Pandey (eds.). 2017. Mechanism of Plant Hormone Signaling under Stress. John Wiley &amp; Sons, Inc.</li> </ol>	