


## MODULE HANDBOOK

	<b>UNIVERSITAS PADJADJARAN</b> <b>FACULTY OF MATHEMATICS AND NATURAL SCIENCES</b> <b>BACHELOR OF BIOLOGY PROGRAMME</b>	<b>COURSE CODE:</b> <b>D10D-601021</b>
<b>Module designation</b>	Pest-Control Management	
<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. Melanie, S.Si., M.Si</li> <li>2. Prof. Dr. Wawan Hermawan, MS</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>	-	
<b>Module objectives/intended learning outcomes</b>	<ol style="list-style-type: none"> <li>1. Able to master insight into the scope of Pest Control Management including knowledge of IPM/IPM, negative impacts and toxicology of conventional pesticides, strategies and technological engineering in pest control management, prospects for environmentally sound pest control management</li> <li>2. Able to explore and review literacy sources, document, store study results data and be able to complete tasks in groups or independently.</li> </ol>	
<b>Contents</b>	This course covers the scope and principles of pest control, integrated pest control management, insecticide toxicology and the impact of conventional insecticides, utilization and development of biopesticide formula engineering, controlling insect pests by modifying their behavior and biological functions, development of microbial engineering in transgenic technology, based pest control local wisdom, techniques for developing sterile insects, physical and mechanical pest control, prospects and applications of pest control in various areas of life.	
<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. Pedigo, L (1999) Entomology and Pest Management, MacMillan Pub.Co</li> <li>2. Metcalf, R.L., &amp; W.L.Luckmann (1999) Introduction to Insect Pest Management, 3<sup>rd</sup>. ed. John Wiley &amp; Sons.</li> <li>3. Purnomo, H.(2010) Pengantar Pengendalian Hayati. Penerbit Andi. Yogyakarta</li> <li>4. Debach, P (1991) Biological Control by Natural Enemies 2nd Edition, Cambridge University Press, Cambridge</li> <li>5. Natawigena,H (1990) Entomologi pertanian. Penerbit Orba Sakti, Bandung</li> <li>6. Matsumura, F., 1985. Toxicology of Insecticides. 2nd ed. Plenum Press.</li> </ol>	