


MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE: D10D-601016
Module designation	Ferns Biology	
Semester in which the module is taught	5	
Person(s) responsible for the module	<ol style="list-style-type: none"> 1. Dr. Suryana, S.Si., MP. 2. Joko Kusmoro, Drs., MP. 	
Medium of instruction	Indonesian	
Relation to curriculum	Elective course	
Teaching methods	Lectures, discussions, cooperative learning, and inquiry learning	
Workload	<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>	
Credit points	2,00 (3,62 ECTS)	
Required and recommended prerequisites for joining the module	-	
Module objectives/intended learning outcomes	<ol style="list-style-type: none"> 1. Students are able to explain the basic concepts of ferns (characteristics, population dynamics and classification) 2. Students are able to explain the biogeography of ferns in the highlands, medium and lowlands and their conservation status. 3. Students are able to make scientific reports about ferns through secondary data or collecting data directly in the field. 4. Students are able to apply the benefits of ferns for society in the form of terrariums, plant collections on a small or large scale, infographics, etc. 	
Contents	This course discusses ferns which include characteristics, population dynamics, classification, biogeography of plants in the high, medium and lowlands as well as sampling techniques. A discussion was also held regarding its conservation status and its benefits both ecologically and economically.	
Examination forms	Quiz, midterm exam, assignment, and final exam	
Study and examination requirements	The minimum attendance in lectures is 80%. Final grades are evaluated based on Quizzes (25%), Assignments (25%), midterm exam (25%), and final exam (25%).	
Reading lists	<ol style="list-style-type: none"> 1. Pedigo, L (1999) Entomology and Pest Management, MacMillan Pub.Co 2. Metcalf, R.L., & W.L.Luckmann (1999) Introduction to Insect Pest Management, 3rd. ed. John Wiley & Sons. 3. Purnomo, H.(2010) Pengantar Pengendalian Hayati. Penerbit Andi. Yogyakarta 4. Debach, P (1991) Biological Control by Natural Enemies 2nd Edition, Cambridge University Press, Cambridge 5. Natawigena,H (1990) Entomologi pertanian. Penerbit Orba Sakti, Bandung 6. Matsumura, F., 1985. Toxicology of Insecticides. 2nd ed. Plenum Press. 	