


MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE: D10D-3008
Module designation	Animal Development Practicum	
Semester in which the module is taught	3	
Persons responsible for the module	1. Dr. Kartiawati Alipin 2. Dr. Desak Made Malini 3. Dr. Yasmi P. Kuntana 4. Madihah, M.Si	
Medium of instruction	Indonesian	
Relation to curriculum	Compulsory course	
Teaching methods	Practice	
Workload	Total workload : 2720 minutes = 45.33 hours Practice : 1 x 170 minutes x 16 weeks = 2720 minutes = 45.33 hours Exercises : - Self-study : -	
Credit points	1.00 (1.81 ECTS)	
Required and recommended prerequisites for joining the module	Basic biology	
Module objectives/intended learning outcomes	1. Conduct practicum observing the male and female reproductive systems and ovum and testis preparations to see the process of oogenesis and spermatogenesis 2. Observing the development of chicken and mouse embryos 3. Observing the process of growth and development of the embryo. Begins to form a zygote to form 3 layers of institutions 4. Observing the process of growth and development of advanced embryos (starting from the neurulation phase to the development of each of the 3 layers of the institution 5. Observing the process of metamorphosis and regeneration in frogs	
Contents	The animal development practicum studies about male reproductive system, spermatogenesis, female reproductive system, oogenesis, fertilization, early embryogenesis, late embryogenesis, chicken embryo observation methods, fetus observation methods, metamorphosis, regeneration.	
Examination forms	Quiz, Midterm exam, Assignment, and Final exam	
Study and examination requirements	The minimum attendance in lectures is 100%. Final grades are evaluated based on quiz (10%), midterm exam (25%), assignment (40%), and final exam (25%)	
Reading lists	1. Gilbert, S.F. 2000. <i>Developmental Biology</i> , 6 th ed. Sunderland: Sinauer Associates, Inc. 2. Johnson, M. & B. Everitt. 1988. <i>Essential Reproduction</i> , 3 rd ed. Oxford: Blackwell Scientific Publications 3. Sadler, T.W. 1990. <i>Langmans medical Embriology</i> . 6 th ed. Baltimore Mariland: Williams & Wilkins 4. Carlson, B. M. 1996. <i>Patten's foundations of embryology</i> , 6 th ed. New York: McGraw-Hill, Inc 5. Turner, C.D. & Joseph T.B. 1976. <i>Endokrinologi Umum</i> . Airlangga University Press	