

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND SCIENCE DEPARTMENT OF BIOLOGY EDUCATION

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Bachelor of Science in Biology

MODULE HANDBOOK

Module name:	Reproduction Technology				
Module level, if applicable:	Undergraduate				
Code:	BIM6248				
Sub-heading,if applicable:	-				
Classes,if applicable:	-				
Semester:	Even				
Module coordinator:	Suhandoyo, MS				
Lecturer(s):	Suhandoyo, MS. , Ciptono, MSi.				
Language:	Indonesian				
Classification within the curriculum:	Compulsory Course				
Teaching format / class hours per week during the semester:	100 minutes lectures, 120 minutes structured activities, and 120 minutes individual studyper week				
Work load:	Total workload is 91 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.				
Credit points:	2 SKS (3 ECTS)				
Prerequisites course(s):	Animal Reproduction and Embryology				
Program Learning Outcomes:	PLO.4. Comprehensively mastering Biology (core biology) to solve problems in the field of Biology (problem-solving) and to underlie the concepts of related sciences PLO.6. Being adaptive, creative, innovative in applying the concepts of Biology and other related fields PLO.9. Being able to work and create jobs/being an entrepreneur in the field of Biology PLO.11. Possessing scientific skills to support the ability to speak in local, national, and international forums				
Course Outcomes	After taking this course, the students have ability to: CO.1. Describe the implementation of animal reproduction technology applications including reproduction technology in aquatic animals, artificial insemination, embryo transfer, in vitro fertilization, genetic clonning and reproductive				

	bioethics. CO.2. Understanding the application of reproductive technology in daily life includes reproductive technology in aquatic animals, artificial insemination, embryo transfer, in vitro fertilization, genetic cloning and reproductive bioethics. CO.3. Analyzing the application of reproductive technology in daily life includes reproductive technology in aquatic animals, artificial insemination, embryo transfer, in vitro fertilization, genetic cloning and reproductive bioethics. CO.4. Able to carry out reproductive biotechnology applications to improve the reproductive efficiency of aquatic animal						
Content:	This course mainly develops science and skills (MKK) in animal reproduction technology including reproduction technology in aquatic animals, artificial insemination, embryo transfer, in vitro fertilization, genetic clonning and reproductive bioethics.						
	The fi	nal mark will b	e weight as follow	:			
	No	СО	Assessment Object	Assessment Technique	Weight		
Study/examachievements:	1	CO1 to CO4	Observed attitudes , knolwedge, and skills	Survey, test, rubrics and manuals	100%		
Forms of media:	Real	objects, model	, multimedia, LCD,	Total computer	100%		
Reference:	 Real objects, model, multimedia, LCD, computer Brackett, BG; Seidel JR, GE and Seidel, SM. 1981. New Technologies In Animal Breeding. Academic Press, New York. Betteridge, KJ (Ed). 1977. Embryotransfer in Farm Animals. A Riview of Techniques and Applications. Agriculture, Canada. Brown, TA. 1986. Genes Cloning, an Introduction. Van Nostrand Reinhold (UK) Co. Ltd. England. D. Chauduri, H. 1976. Journal of Fisheries Research Board of Canada. Use of Hormones in Induced Spawning of Carps. Vol. 33 No. 4, Pt.2. E. Croocks, R and Baur, K. 1983. Our Sexuality. Second Edition. The Benyamin / Cummings Publishing Company, Inc; California. F. Hafez, ESE. 1970. Reproduction and Breeding Techniques for Laboratory Animals. Lea & Febiger, Philadelphia. Hafez, ESE. 1980. Reproduction in Farm Animals. Lea and Febiger, Philadelphia. H. Hoar, WS; Randall, DJ and Donaldson, EM (Eds). 1983. Fish Physiology. Vol. IX. Reproduction, Part B: Behavior and Fertility Control. Academic Press, Inc. Toronto. Muir, JF and Robert, RJ. 1985. Recent Advances in Aquaculture. Vol. 2. Westview Press, Boulder. Colorado. J. Shelton, JN; Tromson, AO; Moore, NW and James, JW (Eds). 1982. Embryotransfer in Cattle, Sheep and Goats, Papers of A Symphosium held at Canberra, Australia, May 1981. Union Offset Company Pty. Ltd; 20 Pirie Street, Fyshwick, ACT. 						

Jakarta. 12.L. Toelihere, MR. 1981. <i>Inseminasi Buatan pada Ternak</i> . Penerbi Angkasa, Bandung.
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PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11
CO1				✓							
CO2				✓							
CO3				✓							
CO4				✓		V			V		V