

MODULE HANDBOOK

Course : Cytology, Basic Histology, and Embryology
Academic Year : 2017/2018

A. Course Identity

Modul name	Cytology, Basic Histology, and Embryology
Level modul	Bachelor
Abbreviation, if applicable	KHU 1013
Sub-Heading, if applicable	-
Courses included in the module, if applicable	-
Semester/ Term	2 / First year
Module Coordinator	Dr. drh. Tri Wahyu Pangestiningih, MP
Lecturer(s)	Dr. drh. Tri Wahyu Pangestiningih, MP drh. Teguh Budipitojo, MP, PhD drh. Ariana, MPhil Dr. med.vet. drh. Hevi Wihadmadyatami, MSc
Language	Bahasa Indonesia
Classifications within the curriculum	Compulsory course
Teaching Format/ class hours per weeks during the semester	2 hours lecture/ week and 2 hours practice on laboratory/ week
Workload	2 hours lecture x 12 weeks = 24 hours 2 hours laboratory practice x 10 weeks = 20 hours 2 hours exam x 3 = 6 hours 1 hour practical exam x 2 = 2 hours 4 hours FGD x 3 weeks = 12 hours 2 hours self study x 15 weeks = 30 hours Total =94 hours equivalen 3,76 ECTS 1 ECTS = 25 hours
Credit points	3 (2/1)
Learning goals/ competencies	CO1 able to identify the structure of cell, the shape variety of cell, the structure of epithel, connective, muscle, nerve tissues, the variety fertilization process, the stages of cleavage, the variety of vertebrate blastula, the variety of vertebrate gastrula, the embryonic tubulation process of vertebrate, the organogenesis of vertebrate. CO2 able to show the histology of epitel epithel, connective, muscle and nerve tissues, the cleavage stages of vertebrate, the blastula, gastrula stages of vertebrate, the organ development of vertebrate CO3 able to differences in histology between epithel, connective, muscle and nerve tissues CO4 able to conduct a teamwork to discuss some multidiscipline lectures
Content	1. Introduction 2. Cytology : Cell Introduction 3. Cell Organella 4. Histology : Epithelial Tissue 5. Connective and Adipose Tissue

	6. Bone and Cartilage Tissue 7. Muscle Tissue 8. Nerve Tissue 9. Embryology : Domestic Animal Ovum Type, Fertilization and Cell Cleavage 10. Blastulation, Gastrulation, Tubulation 11. Organogenesis : ectodermal layer, sensory organ and teratogenic Agent 12. Organogenesis : endodermal and mesodermal layer			
Study/ exam achievement	Assessment aspect	Assessment element	Point	Course outcome (CO)
	Cognitive	First Exam	20	CO1, CO3
		Second Exam	20	CO1, CO3
		Final Exam	20	CO1, CO3
	Psycomotor	Laboratory Practice	25	CO2
	Affective	Focus Group Discussion (FGD), lecture dan laboratory practice Activity; Presence; Dicipline; Politeness	15	CO4
	Score	Alphabetical Score	Score	Alphabetical Score
	≥ 75	A (4,0)	57,4 - 55	C (2,0)
	74,9 - 72,5	A- (3,75)	55,9 - 52,5	C- (1,75)
	72,4 - 70	A/B (3,5)	52,4 - 50	C/D (1,50)
	69,9 - 67,5	B+ (3,25)	49,9 - 45	D+ (1,25)
	67,4 - 65	B (3,0)	45,9 - 40	D (1,0)
	64,9 - 62,5	B- (2,75)	< 40	E (0)
62,4 - 60	B/C (2,5)	incomplete	TL	
59,9 - 57,5	C+ (2,25)			
Forms of Media	Powerpoint presentation, LCD Projector, Whiteboard, Laboratory			
Literature	1. Banks, W.J. 1993. Applied Veterinary Histology. 3rd. Mosby-Year Book, Inc. Missouri, USA. 2. Bacha Jr., W.J. dan Bacha, L.M. 2000. Color Atlas of Veterinary Histology. 2nd . Lippincott Williams & Wilkins, Pennsylvania, USA 3. Leeson, C.R..1996. Buku Teks Histologi. Edisi kelima, penerjemah : Yan Tabayong, dkk. 4. Judull asli : <i>Textbook of Histologi</i> .Penerbit Buku Kedokteran ECG, Jakarta. 5. Ross, M.H. dan Romrell, L.J. 1989. Histology: A Text and Atlas. 2nd. Williams & Wilkins, Maryland, USA 6. Samuelson, D. A. 2007. Textbook of Veterinary Histology. Saunders. St. Louis, Missouri 7. Young, B., Lowe, J. S., Stevens A. dan Heath J. W. 2006.			

	<p>WHEATER'S Functional Histology</p> <p>8. A Text and Colour Atlas. 5th. Churchill Livingstone, Elsevier, Philadelphia, USA</p> <p>9. Balinsky. 1975. An Introduction to Embryology. 4th ed. W.B. Saunders Company, Philadelphia, USA.</p> <p>10. Huettner A.F. 1956. Fundamentals of Comparative Embryology of The Vertebrates. 7th ed. The Macmillan Company, New York, USA.</p> <p>11. McGeady, T.A., Quinn, P.J., FITZPatrick, E.S dan Ryan, M.T. 2006. Veterinary Embryology. T.J. International Ltd., Cornwall. Great Britain.</p> <p>12. Shumway, W., dan Adamstone, F.B. 1964. Introduction to Vertebrate Embryology. 5th ed. John Wiley & Sons, Inc. New York, USA.</p> <p>13. Sandhu, G.S., Srivastava, S. dan Arora, C.K. 1994. A Textbook of Embryology. Anmol Publications Pvt Ltd. New Delhi. India.</p> <p>14. Ulrich, D. 1996. Atlas Berwarna & Teks Embriologi. Edisi pertama, penerjemah: Hendra</p> <p>15. Laksmana. Judul asli: <i>Taschenatlas der Embryologie</i>. Hipokrates, Jakarta. Indonesia</p> <p>16. Yatim, W. 1994. Reproduksi & Embryologi. Edisi ketiga. Tarsito, Bandung, Indonesia.</p>
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B. Mapping PLO to CO

PLO	CO1	CO 2	CO 3	CO4
PLO1 Having insight of veterinary ethic and comprehension towards the essence of profession vow and ethic code also baseline of veterinary profession	√	√	√	
PLO2 Having insight in the field of national animal health system and veterinary legislation	√	√	√	
PLO3 Having skills in practicing lege-artis medical treatment;		√		
PLO14 Well-communicate, able to cooperate in team				√