

MODULE HANDBOOK
 Course : Veterinary Clinical Pathology
 Academic Year : 2017/2018

A. Course Identity

Module name	Veterinary Clinical Pathology
Module level	Bachelor
Abbreviation, if applicable	KHU-3111
Sub-Heading, if applicable	1. Hematology 2. Clinical Chemistry
Courses included in the module, if applicable	Lecture Practice FGD
Semester/ Term	5 / Third year
Coordinator	Prof. drh. Bambang Hariono, Ph.D.
Lecturer(s)	Prof. em. drh. Soesanto Mangkoewidjojo, M.Sc., Ph.D. Prof. drh. Bambang Hariono, Ph.D. Prof. Dr. drh. Siti Isrina Oktavia Salasia drh. Christin Marganingsih Santosa, M.Si. drh. Imron Rosyadi, M.Sc. drh. Dinar Arifianto, M.Sc.
Language	Bahasa Indonesia
Classifications within the curriculum	Compulsory course
Teaching Format/ class hours per weeks during the semester	3 hours lectures per week per semester and 4 hours per week focus group discussion (FGD) for two weeks per semester
Workload	Lectures : 3 hours x 3 credits x 8 weeks : 72 hours FGD : 4 hours x 4 weeks : 16 hours Practical : 3 hours x 1credit x 8 weeks : 24 hours 112 hours ⇔ 3,89 (ECTS)
Credit points	4 (3/1)
Requirements	1. Veterinary Biochemistry II (KHU-1022) 2. Veterinary General Pathology (KHU-2101)
Learning goals/ competencies	CO1: Students are able to understand various methods of examination of samples / specimens of blood, urine, feces, body fluids with preservatives. CO2: Students are able to analyze the results of hematology, urine, feces, body fluids, enzymes, proteins, hormones and their association with clinical symptoms for prognosis and disease diagnosis. CO3: Students are able to interpretation of examination results of hematology, urine, feces, body fluids, enzymes, proteins,

	hormones and their association with clinical symptoms for prognosis and disease diagnosis.
Content	<p>The course contents are:</p> <ul style="list-style-type: none"> • Hematology: a. Erythrocyte, b. Leukocyte, c. Platelets, d. Blood coagulation • Clinical laboratory chemistry: a. Function of various organs, b. Urinalysis, c. Blood chemistry (proteins & enzymes)
Study/ exam achievement	<p>Final exam (Quiz and Writing Exam) : 60%</p> <p>FGD (Attitude, Skill, Knowledge, Written Report) : 15%</p> <p>Practicum (Pre test, Post test, Response) : 25%</p> <hr/> <p>Total : 100%</p> <p>The final index of values</p> <p>A : 100 > NA ≥ 75</p> <p>AB : 75 > NA ≥ 68</p> <p>B : 68 > NA ≥ 60</p> <p>BC : 60 > NA ≥ 55</p> <p>C : 55 > NA > 50</p> <p>D : 50 > NA > 45</p> <p>E : NA < 45</p>
Forms of Media	Power point presentation, LCD Projector, Whiteboard, Laboratory
Literature	<ol style="list-style-type: none"> 1. Schalm's Veterinary Hematology, 2010, Weiss, D.J. and Wordrop, K.J. 6th edition, Blackwell Publishing Ltd. USA 2. Schalm's Veterinary Hematology, 2000. B.F. Feldman, J.G. Zinkl, N.C. Jain, Lea and Febiger, Philadelphia.. 3. Veterinary Laboratory Medicine: Interpretation and Diagnosis, 1998. D.J. Meyer and J.W. Harvey, W.B. Saunders Co., Philadelphia. 4. Klinische Labordiagnostik in der Tiermedizin, 1995. W Kraft, V.M. Durr. Schattner, Stuttgart 5. Veterinary Laboratory Medicine, Clinical Pathology, 1994. J.R Duncan, K.W. Prasse, E.A. Mahaffey, Iowa State University Press, Ames 6. Small Animal: Clinical Diagnosis by Laboratory Method, 1994, M.D. Willard, H. Tvedten, G.H. Turnwald. WB Saunders company, Philadelphia. 7. Color Atlas of Comparative Diagnostic and Experimental Hematology, 1994. C.A. Smith, C.M. Andrews, J.K. Collard, D.E. Hall, A.K. Waller, Wolfe Publishers, Spain 8. Journal of Veterinary Clinical Pathology, USA. 9. Journal of Comparative Hematology International, Springer, USA

B. PLO Mapping to CO

PLO	CO1	CO 2	CO 3
PLO 3 Having skills in practicing lege-artis medical treatment;	√	√	
PLO 4 Having skills in handling some diseases in large animals, small animals, poultry, exotic animals, wildlife, aquatic animals and laboratory animals;		√	√
PLO 10 Able to decide therapy appropriately, mastering traditional medicines, mastering animal medicine quality, mastering therapy side effects		√	√
PLO 12 Able to process research data, do the data analysis, take summary and decision correctly;		√	√
PLO 14 Well-communicate, able to cooperate in team;		√	√