MODULE HANDBOOK

Field of Co-Assistance : Co-Assistance Of Laboratory Diagnosis

Academic Year : 2017/2018

A. Course Identity

Module name	Co-Assistance Of Laboratory Diagnosis
Module level	Co-Assistance Program
Abbreviation, if applicable	KHP-606
Sub-Heading, if applicable	-
Courses included in the module, if applicable	-
Semester/ Term	-
Coordinator	-
Lecturer(s)	1. Prof. drh. R. Wasito, M.Sc., Ph.D. 2. Prof. drh. Kurniasih, M.V.Sc., Ph.D. 3. drh. Sitarina, M.P., Ph.D. 4. Dr. drh. Bambang Sutrisno, M.P. 5. drh. Sugiyono, M.Sc. 6. Dr. drh. Yuli Purwandari, M.P. 7. Prof. drh. Widya Asmara, S.U., Ph.D. 8. Dr. drh. Tri Untari, M.Si. 9. Dr. drh. AETH. Wahyuni, M.Si. 10. Dr. drh. M. Haryadi Wibowo, M.P. 11. drh. Sidna Artanto, M.Biotech. 12. Prof. drh. Soesanto Mangkoewidjojo, M.Sc., Ph.D. 13. Prof. drh. Bambang Hariono, Ph.D. 14. Prof. Dr. drh. Siti Isrina Oktavia Salasia 15. drh. Christin Marganingsih Santosa, M.Si. 16. drh. Imron Rosyadi, M.Sc. 17. drh. Dinar Arifianto, M.Sc. 18. drh. Eryl Sri Rohayati, S.U. 19. Dr. drh. Djoko Prastowo, M.Si. 20. Dr. drh. R. Wisnu Nurcahyo 21. Dr. drh. Ana Shara, M.Si. 22. Dr. drh. Dwi Priyowidodo, M.P. 23. drh. Yudhi Ratna N., M.Sc.
Language	Bahasa Indonesia
Classifications within the curriculum	Compulsory Course
Teaching Format/ class hours per weeks during the semester	Lecture : 40 hours/week/smt Field study : 40 hours/week/smt Laboratory skill : 160 hours/week/smt Exam : 40 hours/week/smt
Workload	Lecture : 40 hours/week/smt Field study : 40 hours/week/smt Laboratory skill :

	Pathology : 40 hours/week/smt Mikrobiology : 40 hours/week/smt Parasitology : 40 hours/week/smt Clinical pathology : 40 hours/week/smt Exam/oral examination : 40 hours/week/smt Total : 280 hours/week/smt Equivalent : 18,67 ECTS
Credit points	8 credits
Requirements	-
Learning goals/ competencies	After finishing the laboratory diagnosis co-assistance program, students would be able to: **CO1.** perform good laboratory diagnosis skills specifically on these particular aspects: 1. Collect and handling proper sample specimens and perform good laboratory techniques in isolation and identification of infectious organisms (parasite, bacteria, fungi and viral) from various animal cases 2. Perform necropsy, identify and analyze gross pathological lesions and histopathological changes 3. Perform basic haematology and clinical biochemistry tests and interpret test results 4. Diagnose infectious disease in animal through comprehensive laboratory examination 5. Communicate well and effectively with client (farmer/pet owner) and supervisor **CO2.** understand adequately about the etiologic agent, pathogenesis, host-response, laboratory diagnosis, and could present the laboratory findings, their analysis and medical advice properly
Content	1. Having insight in veterinary ethics and understanding toward the essence of profession vows and ethics code as well as baseline of professional veterinary; 2. Having insight in the field of national animal health system and veterinary legislation; 3. Having skills in doing *lege-artis* medical action; 4. Having skills in doing a number of diseases in large animals, small animals, poultry, exotic animals, wildlife, aquatic animals and laboratory animals; 5. Having skills in doing: (a) clinical, laboratory, pathologic, and epidemiologic diagnosis of animal diseases; (b) nutrition forming for health and medical diseases; (c) ante mortem and post mortem examination; (d) pregnancy examination, handling of reproduction disorders and application of reproductive technology; (e) supervision of animal products safety and

	quality; (f) supervision and control of animal medicine quality and their biological ingredients, including usage and distribution; (g) assessment and supervision of animal welfare; 6. Having skills in professional communication/dialogue; 7. Having skills in control and prevention management of strategic and zoonotic diseases, biosecurity-biosafety, and environmental control; 8. Having skills in "therapeutic transaction", doing anamneses, medical record, medical action informed consent, prescription writing, doctor's reference and client education. Having basic knowledge of risk analysis, veterinary economic analysis and entrepreneurship.
Study/ exam achievement	1. Professional and rules 2. Ability in doing corps sample examination 3. Laboratory working procedures 4. Written test 5. Structured task 6. Final report 7. Seminar
Forms of Media	Text (whiteboard), picture, photo, diagram, poster, slide projector, video, LCD projector,
Literature	1. Zachrav, F., 2011. *Pathologic Basis of Veterinary Diseases* 2. Cowell, R.L., 2008. *Diagnostic Cytology and Hematology* 3. Villiers, E., 2007. *BSAVA Manual of Clinical Pathology* 4. Stockham, S.L., 2008. *Fundamentals of Veterinary Clinical Pathology* 5. Dav, M.J., 2010. *Veterinary Immunology* 6. Carter, G.R., 2004. *Essentials of Veterinary Bacteriology* 7. Cheville, N.F., 2006. *An Introduction to Veterinary Pathology* 8. Roberts, R.J., 2012. *Fish Pathology* 9. Ballweber, L.A., 2001. *Veterinary Parasitology* 10. Georgy, J.R., 1985. *Parasitology for Veterinarians*. W.B. Saunders Company 11. Price, C.J and J.E. Reed., 1970. *Practical Parasitology. General Laboratory Technique and Parasitic Protozoa. United nations Development Program.* Food and Agriculture Organization. 12. Roberts, L. S and Janovy, J.J. 2000. *Foundations of Parasitology.* 6 ed. McGraw Hill Company. Singapore. 13. Soulsby, E.J.L., 1982. *Helminths, Arthropods and Protozoa of Domesticated Animals.* The ELBS & Bailliere Tindall. London. 14. Urquhart G.M., Armour,J., Duncan, J.L., Dunn,A.M. & Jennings,F.W. 1987. *Veterinary Parasitology*, ELBS, England

B. PLO Mapping to CO

	PLO	CO 1	CO 2
PLO 2	Having insight in the field of national animal health system and veterinary legislation	√	
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 5	Having skills in doing: (a) clinical, laboratory, pathologic, and epidemiologic diagnosis of animal diseases; (b) Creating nutrition for medical health and disorder; (c) ante mortem and postmortem examination; (d) pregnancy examination, handling of reproduction disorder and application of reproduction technology; (f) supervision and control of animal medicine quality and biological ingredients, including the usage and distribution; (g) assessment and supervision of animal welfare	√	
PLO 13	Able to make research proposal, able to compile seminar materials, delivering in form of presentation and poster, writing according to rules of scientific journals	√	
PLO 15	Able to do research, handling biological safety of animal diseases, and environment control	√	√
PLO 18	Having skills in handling some diseases of wildlife, exotic animals and management at the zoo		√