

MODULE HANDBOOK

Course: Co-Assistance of Laboratory Diagnosis

Academic Year: 2017/2018

A. Course Identity

1.	Field of Co-Assistance	Co-Assistance of Laboratory Diagnosis
2.	Study Load	8 credits
3	Work format	Lecture : 40 hours/week/smt Field study : 40 hours/week/smt Laboratory skill : 160 hours/week/smt Exam : 40 hours/week/smt
3	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
3.	Study Period	8 weeks (7 weeks effective + 1 week transition)
4.	Competency	<ol style="list-style-type: none"> 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 <i>lege-artis</i> 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;

		<p>7. Having skills in control and prevention management of strategic and zoonotic diseases, biosecurity-biosafety, and environmental control;</p> <p>8. Having skills in “therapeutic transaction”, doing anamneses, medical record, medical action informed consent, prescription writing, doctor’s reference and client education.</p> <p>9. Having basic knowledge of risk analysis, veterinary economic analysis and entrepreneurship.</p>
5.	Type of competency	Main
6.	Elements of competency	<ol style="list-style-type: none"> 1. Personal Basis (PDS) 2. Mastery of science and skills (KSS) 3. Ability to work (EWS) 4. Attitude and behavior in working based on the level of expertise in the mastered knowledge and skills (BWS) 5. Understanding of social life principle suitable with expertise choice in working (LTCS)
7.	Learning Outcome (COURSE OUTCOME)	<p>After finishing the laboratory diagnosis co-assistance program, students would be able to:</p> <p>CO1. perform good laboratory diagnosis skills specifically on these particular aspects:</p> <ol style="list-style-type: none"> 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 <p>CO2. understand adequately about the etiologic agent, pathogenesis, host-response, laboratory diagnosis, and could present the laboratory findings, their analysis and medical advice properly</p>
	Soft Skills Attributes	<p>Field study: working and managing work in the virtual environment,</p> <p>Consultation sessions with supervisor: interpersonal and communication skills</p> <p>Oral presentation during seminar: would train their communication skills and self-confidence</p>

9.	Learning Method	Lectures, discussion, laboratory and field work, consultation, presentation, seminar
10.	Learning Media	Text (whiteboard), picture, photo, diagram, poster, slide projector, video, LCD projector,
11.	Study Results Assessment	<ol style="list-style-type: none"> 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
12.	Lecturers	<ol style="list-style-type: none"> 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.
13.	Compulsory References	<ol style="list-style-type: none"> 1. Zachrav, F., 2011. <i>Pathologic Basis of Veterinary Diseases</i> 2. Cowell, R.L., 2008. <i>Diagnostic Cytology and Hematology</i> 3. Villiers, E., 2007. <i>BSAVA Manual of Clinical Pathology</i> 4. Stockham, S.L., 2008. <i>Fundamentals of Veterinary Clinical Pathology</i> 5. Dav, M.J., 2010. <i>Veterinary Immunology</i> 6. Carter, G.R., 2004. <i>Essentials of Veterinary Bacteriology</i> 7. Cheville, N.F., 2006. <i>An Introduction to Veterinary Pathology</i> 8. Roberts, R.J., 2012. <i>Fish Pathology</i> 9. Ballweber, L.A., 2001. <i>Veterinary Parasitology</i>

		<p>10. Georgy, J.R., 1985. <i>Parasitology for Veterinarians</i>. W.B. Saunders Company</p> <p>11. Price, C.J and J.E. Reed., 1970. <i>Practical Parasitology. General Laboratory Technique and Parasitic Protozoa. United nations Development Program</i>. Food and Agriculture Organization.</p> <p>12. Roberts, L. S and Janovy, J.J. 2000. <i>Foundations of Parasitology</i>. 6 ed. McGraw Hill Company. Singapore.</p> <p>13. Soulsby, E.J.L., 1982. <i>Helminths, Arthropods and Protozoa of Domesticated Animals</i>. The ELBS & Bailliere Tindall. London.</p> <p>14. Urquhart G.M., Armour,J., Duncan, J.L., Dunn,A.M. & Jennings,F.W. 1987. <i>Veterinary Parasitology</i>, ELBS, England</p>
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B. PLO Mapping to CO

CO1	<p>Skill lab. (CO1) :</p> <p>Perform good laboratory diagnosis skills specifically on these particular aspects:</p> <ol style="list-style-type: none"> 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	<p>Knowledge (CO2):</p> <p>Understand adequately about the etiologic agent, pathogenesis, host-response, laboratory diagnosis, and could present the laboratory findings, their analysis and medical advice properly</p>