

## MODULE HANDBOOK

Course : Clinical Co-assistance of Veterinary Public Health and Administrative Agency  
Academic Year : 2017/2018

### A. Course Identity

Module name	Clinical Co-assistance of Veterinary Public Health and Administrative Agency
Module level	Co-Asistant Program
Abbreviation, if applicable:	KHP 604
Sub-heading, if applicable:	<p>I. National Veterinary Services organisatorial and administration</p> <p>I.1. Organisational structures prior the era of territorial autonomy at ministerials to regencies level</p> <p>I.2. Indonesia law No. 22/1999 dan PP No. 25/2000</p> <p>I.3. Organisational structures after the era of territorial autonomy at ministerials to regencies level in related to the duty and function of animal husbandry founding, animal health surveillane and veterinary public health</p> <p>II. Milk Hygiene</p> <p>II.1. Milk characters</p> <p>II.2. Milk quality testing</p> <p>II.3. Microorganisms in milk</p> <p>II.4. Milk quality safety and founding system</p> <p>III. Meat Hygiene</p> <p>III.1. The definition and aim of meat hygiene, and related laws</p> <p>III.2. Livestock slaughter house</p> <p>III.3. Poultry slaughter house</p> <p>III.4. Sanitation of slaughter house</p> <p>III.5. Slaughter administration and related laws (requirements for slaughtering livestock)</p> <p>III.6. The function of animal resting prior slaughter</p> <p>III.7. Antemortem examination</p> <p>III.8. Slaughtering procedures</p> <p>III.9. Emergency slaughter</p> <p>III.10. Postmortem examination</p> <p>III.11. Conversion of muscles to meat and aging</p> <p>III.12. The effect of animal care and stress level prior slaughtering (Influencing factors of meat postmortem conversion and quality)</p> <p>III.13. Meat microbiology</p> <p>IV. Epidemiology</p> <p>IV.1. Cross sectional, case control and cohort design</p> <p>IV.1. Epidemiology analysis and STATISTIX</p>

	<p>V. Animal Infectious Diseases</p> <p>V.1. Related laws to infectious animal diseases</p> <p>V.2. National strategic diseases</p> <p>V.3. Priority infectious animal diseases</p> <p>V.4. Local infectious animal diseases</p> <p>VI. Supplementation</p> <p>VI.1. HACCP</p> <p>VI.2. Field cases in related to veterinary public health</p> <p>VII. Milk quality testing</p> <p>VII.1. Composition and condition examination</p> <p>VII.2. Foreign substances detection</p> <p>VII.3. Mastitis milk testing</p> <p>VII.4. Sensory and pH examination</p> <p>VIII. Meat quality testing</p> <p>VIII.1. Examination of the completeness of blood exsanguination</p> <p>VIII.2. Examination of the start of meat decay</p> <p>VIII.3. Microbiology examination</p>
Courses included in the module, if applicable:	<p>I. National Veterinary Services organisatorial and administration</p> <p>II. Milk hygiene</p> <p>III. Meat hygiene</p> <p>IV. Epidemiology</p> <p>V. Animal infectious diseases</p> <p>VI. Supplementation: HACCP</p> <p>VII. Milk quality testing</p> <p>VIII. Meat quality testing</p> <p>IX. Internship and precetorship</p>
Semester/term:	9 / year 5
Module coordinator(s):	M.Th. Khridiana Putri, DVM, MSc, PhD
Lecturer(s):	<p>1.Prof. Dr. Bambang Sumiarto, DVM, MS., MSc</p> <p>2. Dr. Doddi Yudhabuntara, DVM, PhD</p> <p>3.Heru Susetya, DVM, MSc, PhD</p> <p>4.Dr. Widagdo Sri Nugroho, DVM, MSc</p> <p>5.Dr. Yatri Drastini, DVM, MSc</p> <p>6.Dyah Ayu Wideasih, DVM, PhD</p> <p>7.M.Th. Khridiana Putri, DVM, MSc, PhD</p> <p>8.Roza Azizah Primatika, S. Si., M.Si</p>
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory course
Teaching format/class hours per week during the semester:	<p><b>Week I-II :</b></p> <p>24 hours. 8 hours of lectures, 5 hours of independent study and 1 hour of group discussion per week; 10 hours of independent food hygiene laboratory work.</p> <p><b>Week III-VI :</b></p>

	<p>160 hours. Internship and precetorship at appointed National Veterinary Services; and Agriculture Quarantine Services (optional).</p> <p><b>Week VII-VIII :</b>  40 hours. Group oral presentation; individual oral exam; submission of group and individual written report.</p>
Workload:	<p>Lecture:..... 10 hrs</p> <ul style="list-style-type: none"> <li>• 8 hrs/wk/smt lectures</li> <li>• 2/wk/smt hrs independent studyof group</li> </ul> <p>Laboratory work:.....10 hrs</p> <ul style="list-style-type: none"> <li>• 10 hrs/wk/smtindependent food hygiene lab work</li> </ul> <p>Field study: .....190 hrs</p> <ul style="list-style-type: none"> <li>• 190 hrs/wk/smt of field training</li> </ul> <p>Others: .....30 hrs</p> <ul style="list-style-type: none"> <li>• oral presentation: 1 hr</li> <li>• oral exam: 1 hr</li> <li>• a written report: 28 hrs</li> </ul> <p>Total hours = 240 hrs/wk/smt  = <b>8 ECTS</b></p>
Credit Points:	6
Requirements:	Bachelor in Veterinary Medicine
Learning goals/competencies:	<p>CO1 Students are capable to describe organisation and administration of governmental veterinary services, milk hygiene, meat hygiene, management of contagious diseases, HACCP and its application in related to veterinary public health, milk inspection, meat inspection.</p> <p>CO2 Students are capable to perform organisation and administration duty of governmental veterinary services, perform milk and meat inspection, plan and to apply epidemiology prosedures for prevention, counter and control of animal contagious diseases, encounter problems of milk and meat hygiene within household to industrial level .</p> <p>CO3 Students are capable to verbally analysed and evaluate issues of governmental veterinary services organisation and administration, meat and milk hygiene, prevention, counter and control of animal contagious diseases in epidemiological procedures.</p>
Content:	<p>The courses are discuss about :</p> <ol style="list-style-type: none"> <li>1. national veterinary organisation and administration services,</li> <li>2. agriculture quarantine services,</li> <li>3. national slaughter house services,</li> <li>4. food (meat, poultry, milk, fish and egg) hygiene and quality testing,</li> <li>5. epidemiology,</li> </ol>

	6. eradication-control-prevention of animal infectious diseases, 7. HACCP application in food industry of animal product; 8. internship and precetorship at appointed national veterinary services and agriculture quarantine services (optional)
Study/exam achievements:	<p>Students are considered competent and passed the module when:</p> <ul style="list-style-type: none"> <li>• comply food hygiene laboratory competencies test,</li> <li>• presentation of internship result,</li> <li>• pass comprehensive oral test,</li> <li>• submit written analysis report of collected local diseases data,</li> <li>• meet minimum attendance requirement according to department and academic of FVM rule.</li> </ul> <p>Exam score :</p> <p>20% Written test ..... CO1          40% Internship and precetorship ..... CO2          40% Oral final test..... CO3          Laboratory competencies test (prerequisite).</p> <p>Final index:</p> <p>A : <math>\geq 84</math>          A- : 82          A/B : 80          B+ : 78          B : 76          B - : 74          B/C : 72          C+ : 70          C : 68          C- : 66          C/D : 64          D+ : 62          D : 60          E : NA&lt;59</p>
Literature:	<ol style="list-style-type: none"> <li>1. Forrest, H.C., E.D. Aberte, M.D. Judge dan R.A. Merkel, 1975. <i>Principles of Meat Science</i>. W.H. Freeman, San Fransisco</li> <li>2. Gracey, J.F. , 1986. <i>Meat Hygiene</i>. Bailliere Tindall, Eastbourne, East Sussex</li> <li>3. Harper, W.J. dan C.W. Hall, 1976. <i>Dairy Technology and Engineering</i>. The Avi Publishing, Westport, Connecticut</li> <li>4. Schalm, O.W., E.J. Carrol dan N.C. Jain, 1971. <i>Bovine Mastitis</i>. Lea &amp; Febiger, Philadelphia</li> <li>5. Shahidi, F. dan J.R. Botta, 1994. <i>Seafoods, Chemistry, Processing Technology and Quality</i>. Blackie Academic &amp; Profesional</li> </ol>

	6. Stadelman, W.J. dan O.J. Coterill, 1997. <i>Egg Science and Technology</i> . The Avi Publishing, Westport, Connecticut
Notes	

## B. PLO Mapping to CO

PLO	CO1	CO2	CO3
<b>PLO 1 :</b> Having insight of veterinary ethic and comprehension towards the essence of profession vow and ethic code also baseline of veterinary profession;	√		
<b>PLO 2 :</b> Having insight in the field of national animal health system and veterinary legislation;	√		
<b>PLO 5 :</b> 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			√
<b>PLO 7 :</b> Having skills in control and prevention management of strategic and zoonotic diseases, biosecurity-biosafety, also environment control;		√	
<b>PLO 9 :</b> Having basic knowledge of risk analysis, veterinary economic analysis and entrepreneurship.			√
<b>PLO 13 :</b> Able to make research proposal, able to compile seminar materials, delivering in form of presentation and poster, writing according to rules of scientific journals;			√
<b>PLO 15 :</b> Able to do research, handling biological safety of animal diseases, and environment control;	√	√	
<b>PLO 16 :</b> Mastering leadership management aspect and doing it well;			√
<b>PLO 17 :</b> Having insight in actualizing food self-sufficiency;	√	√	