

## MODULE HANDBOOK

Course : Biostatistics  
Academic Year :2017/2018

### A. Course Identity

Module name	Biostatistics
Module level	Bachelor
Abbreviation, if applicable	KHU-1132
Sub-Heading, if applicable	<ol style="list-style-type: none"><li>1. Introducing</li><li>2. Definitions of Biostatistics</li><li>3. Type of statistics</li><li>4. Graph, table</li><li>5. Bar chart, pie chart</li><li>6. Table of cluster frequency</li><li>7. Descriptive Statistics</li><li>8. Variance, Standar Deviation, Quartil</li><li>9. Sampling Methods</li><li>10. Distribution Statistics</li><li>11. Normal Distribution</li><li>12. Inference Statistics</li><li>13. Hypotesis Statistics</li></ol>
Courses included in the module, if applicable	<ol style="list-style-type: none"><li>1. Introducing<ol style="list-style-type: none"><li>1.1. System Introducing and Learning Contract.</li><li>1.2. Basic Concepts of Biostatistics</li></ol></li><li>2. Definitions of Biostatistics<ol style="list-style-type: none"><li>2.1. difference statistics and biostatistics</li></ol></li><li>3. Type of Statistics<ol style="list-style-type: none"><li>3.1. Descriptive Statistics</li><li>3.2. Inference Statistics</li></ol></li><li>4. Graph, Table<ol style="list-style-type: none"><li>4.1. Histogram</li><li>4.2. Polygon</li><li>4.3. table for quantitative data</li><li>4.4. table for qualitative data</li></ol></li><li>5. Bar Chart, Pie Chart<ol style="list-style-type: none"><li>5.1. Bar Chart</li><li>5.2. Pie Chart</li></ol></li><li>6. Table<ol style="list-style-type: none"><li>6.1. Table for cluster frequency</li></ol></li><li>7. Descriptive Statistics<ol style="list-style-type: none"><li>7.1. Mean</li><li>7.2. Median</li><li>7.3. Modus</li></ol></li><li>8. Descriptive Statistics<ol style="list-style-type: none"><li>8.1. Variance</li></ol></li></ol>

	8.2. Standar Deviation 9. Sampling Methods 9.1. Sample and Sampling 9.2. Source and data type 9.3. Sample size and technique sampling methods 9.4. Sampling methods which is suitable for farm in Indonesia 10. Distribution Statistics 10.1. Discrete Distribution 10.2. Continue Distribution 11. Normal Distribution 12. Inference Statistics 13. Hypotesis Statistics
Semester/ Term	1 / First year
Coordinator	Heru Susetya, DVM, MP, Ph.D.
Lecturer(s)	Heru Susetya, DVM, MP, Ph.D; Roza Azizah Primatika, S. Si., M.Si
Language	Bahasa Indonesia
Classifications within the curriculum	Compulsory course
Teaching Format/ class hours per weeks during the semester	1 hours lectures per week /semester and 8 hours of focus group discussion (FGD) during 4 weeks/ semester
Workload	1 hours lecturer and 1 hours structural activities/week during 14 weeks; 1 hour report work at home; and 8 hours of FGD total 92 hours/25 = 3,68
Credit points	1/0
Requirement	-
Learning goals/ competencies	CO1 able to explain definition of statistics, biostatistics, data source, sample, population, descriptive statistics and inference statistics CO2 able to analyze case study about veterinary medicine, specially for field case study CO3 able to explain of result interpretation from analyzed comprehensive study CO4 able to conduct a teamwork to discuss some multidiscipline lectures
Content	1. Introducing 2. Definitions of Biostatistics 3. Type of statistics 4. Graph, table 5. Bar chart, pie chart 6. Table of cluster frequency 7. Descriptive Statistics 8. Variance, Standar Deviation, Quartil 9. Sampling Methods 10. Distribution Statistics

	11. Normal Distribution 12. Inference Statistics 13. Hypotesis Statistics			
Study/ exam achievement	<b>Assessment aspect</b>	<b>Assessment element</b>	<b>Point</b>	<b>Course outcome (CO)</b>
	Kognitive	Mid Test	35%	CO1, CO2,CO3
	Affective	Final Exam FGD	50% 15%	CO3 CO4
Forms of Media	Powerpoint presentation, LCD Projector, Whiteboard			
Literature	<ol style="list-style-type: none"> <li>1. Watson, Paul., Aviva, Petrie. Ed 3. Statistics for Veterinaary and Animal Science. Wiley-Blackwell.</li> <li>2. Walpole, Ronald E., Myers, Raymond H. 1995. Ed 4. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. ITB Press : Bandung.</li> </ol>			

#### B. PLO Mapping to CO

<b>PLO</b>	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>
<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 3 :</b> Having skills in practicing lege-artis medical treatment;		√		
<b>PLO 9 :</b> Having basic knowledge of risk analysis, veterinary economic analysis and entrepreneurships.			√	
<b>PLO 14 :</b> Well-communicate, able to cooperate in team;				√
<b>PLO 16 :</b> Mastering leadership management aspect and doing it well;			√	