

PLAN LEARNING SEMESTER (RPS)

Eye Studying PTK62104 Statistics



Developer RPS:

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**PROGRAM STUDIES ANIMAL
HUSBANDRY FACULTY OF ANIMAL
HUSBANDRY, ANDALAS UNIVERSITY
2024**

RPS PTK62104 Statistics Course

SUBJE CT	CODE	<i>I-Learn URL Eye Studying</i>	WEIGHT (credits)	Semester	Date Compilation
Statistics	PTK62104		3 (2-1)	2	2 March 2024
AUTHORIZATION		Developer RPS/Coordinator Team Teaching		Chairman Program Studies	
		1. Dr. Ir. Masrizal, MS. 2. Dr. Lendrawati, SPt., MP. 3. Rusdimansyah, SPt., MSi.		Dr. Kusnadidi Subekti, S.Pt., MP	
Achievements Graduate Learning (CPL)		CPL 1. Internalize mark base university, code ethics, And ethics scientific based on values Pancasila.			
		IK 1. Capable apply honesty in every academic activities . IK 2. Capable apply discipline in presence And settlement task Which in burden. IK 3. Able to apply politeness in every academic activity. IK 2. Capable show attitude responsible answer full to task charged .			
		CPL 2. Control basics knowledge general And theories base field farm.			
		IK 1. Control concepts base knowledge general.			
		CPL 7. Own attitude as learners throughout life And studies carry on in develop career professional			
		IK 1. Capable show performance as learners with finish task end			
Achievements Eye Learning Studying (CP-MK)		CP-MK1. Student capable explain And understand about basics statistics, draft population, sample, parameter And variables (CPL 1, CPL 2).			
		CP-MK2. Student capable understand, handle, compile And serve data, as well as can apply it on data livestock sector (CPL 2).			
		CP-MK3. Students are able to understand, know and apply the functions and uses of descriptive statistics which include measures of central tendency, measures of position and measures of disparity in livestock data (CPL 2).			
		CP-MK4. Student capable understand draft theory variables random, opportunity And its use as well as technique sampling And its application in the field of animal husbandry (CPL 2, CPL 7).			
		CP-MK5. Students are able to understand and apply the theoretical concept of point and interval parameter estimation for the average and variance of one and two populations (CPL 2).			
		CP-MK6. Students are able to understand the basics of hypothesis testing and conducting tests hypothesis using the t-test (student), z-test, chi-square test and fisher test for livestock data and interpreting based on the results of the analysis (CPL 2, CPL 7).			

		CP-MK7. Students understand and are able to conduct regression and correlation analysis and interpret the results. the analysis (CPL 2, CPL 7).
Sub CP-MK (If There is)		-
Description Short Subject		This course explains the basic principles of statistical methods that can be applied in the field of animal husbandry, namely descriptive and inductive statistics, including: data presentation, measures of central location, variance, probability, and the principles of hypothesis testing regarding mean values and proportions, as well as regression analysis.
Study Materials		10 1. Introduction statistics 2. Collection, compilation And presentation data 3. Size centralization, location And diversion 4. Opportunity And distribution opportunity discrete And continuous 5. Estimate parameter or hose trust 6. Testing hypothesis 7. Analysis regression
Library	Main:	1. Sudjana. 1984. <i>Method Statistics</i> . Publisher Tarsito, Bandung 2. Steel, RGD, And JH Torrie. 1989. <i>Principle And Procedure Statistics A Approach Biometrics</i> . Publisher Gramedia, Jakarta. 3. Sudjana. 1996. <i>Analysis Techniques Regression And Correlation</i> . Publisher Tarsito, Bandung
	Supporters:	4. Walpole, RE 1988. <i>Introduction Statistics</i> . PT. Gramedia, Jakarta 5. Santoso, RD, And MH Kusnadi. 1992. <i>Analysis Regression</i> . Publisher Andi Offset, Yogyakarta
Media Learning		Device soft (A):
		<i>Learning Management System /LMS (i-Learn), Social Media, ScienceDirect, Google Scholar, and Artificial Intelligence (AI)</i>
		Device hard (B):
		Class Offline, Laptop, InFocus, White Board, And Smartphone
Team Guardian Subject		1. Dr. Ir. Masrizal, MS 2. Dr. Hilda Susanty, S.Pt., M.Sc. 3. Dr. Lendrawati, S.Pt., MP 4. Dr. Ir. Montesqrit, SPt., MP

		5. Rusdimansyah, S.Pt., M.Sc. 6. Ir. Andri, MS 7. Eli Ratni, S.Pt., MP 8. El Latifa Sri Suharto, SPt., MSi 9. Kadran Fajrona, SPt., MPt.								
Eye studying pre condition		Passed eye studying PTK61102 Mathematics								
Week (1)	CP- MK and/or Sub CP-MK (2)	Assessm ent Indicator s (3)	Assessm ent Forms (4)	Learning Activities/Forms [Estimated Time]					Material Learning/Study Materials (10)	Referenc es (11)
				Synchronous*		Asynchronous**		Medi a (9)		
				Face Offline Face (5)	Onlin e Face to Face (6)	Indepe nden t (7)	Collaborativ e (8)			
1	CP-MK 1	Accuracy in explaining the meaning/ definition in statistics.	Quiz 1 (5%)	Explanation theory and understanding or definition in statistics. (1x1x50')	-	Students understand the concept of statistical theory from references and complete practice questions. correctly	-	A and B	Definition/understanding of statistics, statistics, data, population, sample, parameter And variables.	1,2,4

	CP-MK 2	Accuracy in presenting data in table form or list and diagrams or graphs.	Case 1 (5%)	Explaining the process processing and presentation data something with needs. (1x1x50')	-	Students process and present data according to practice questions correctly	-	A and B	Processing And presentation data in the form of lists/tables and images/graphs	1.4
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2- 3	CP-MK 3	Accuracy in the calculation and use of centralization measures, location and disparity in their application in livestock sector	Case 2 (5%)	Explaining calculations and usage size centralization, location and dislocation based on data type in the field of animal husbandry. (2x2x50')	-	Students do the assignment: measures of centralization, location and diversion	-	A and B	Calculation and use of measures of centralization, measures of location and measures of divergence in processing data single and group.	1.4 10
4- 5	CP-MK 4	Accuracy of explaining, calculating, using discrete and continuous distribution of needs and sampling distribution	Case 3 (10%)	Explaining the calculation of discrete probability distributions, continuous and sampling distribution and its use in research in the field of farm (2x2x50')	-	probability distribution and sampling with Correct.	-	A and B	Calculation And distribution usage opportunity And sampling techniques in animal husbandry research	1,2,4

6- 7	CP-MK 5	Accuracy in the calculation and use of parameter estimates (values) middle,	Case 4 (5%)	Explaining the calculation and estimation of parameters (confidence interval) based on on the sample (2x2x50')	-	Students do confidence interval calculation exercises with Correct.	-	A and B	Calculation And distribution usage opportunity And sampling techniques in animal husbandry research	1,2,4
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		proportion and variety).								
8	CP-MK 1, CP-MK 2, CP-MK 3, CP-MK 4, CP-MK 5.		Question Mid-ter m exam (20%)							
9- 11	CP-MK 6	Accuracy in determining, testing hypotheses based on data and its applications in the field of animal husbandry	Case 5 (10%)	Explaining the principles of use statistical tests in analyzing research data, namely the student t-test or Z, chi-square test, Fisher and their calculations. (3x2x50')	-	Students are able to determine the type of statistical test appropriate in processing research data.	Students conduct discussions and analyze critical application of statistical tests in the field of animal husbandry	A and B	Analysis data And drawing conclusions from the results of the analysis	10 1,2,4
12- 13	CP-MK 7	Accuracy in determining, analysis simple regression both linear and non-linear based on data and its applications in the field of animal husbandry	Case 6 (10%)	Explain the principles of using simple regression analysis in analyzing research data, namely linear, exponential, geometric, quadratic regression and its calculations.	-	Students are able to determine the type simple regression analysis is appropriate in processing research data.	Students conduct discussions and analyze critical application of simple regression analysis in the field of animal husbandry	A and B	Analysis data And drawing conclusions from the results of the simple regression analysis	2,3,5

				(2x2x50')						
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INDICATOR, CRITERIA AND WEIGHT EVALUATION

1. Weight Evaluation Every Form Quiz Assessment
 - : 5%
 - CBM Tasks : 50%
 - Mid-term exam : 20%
 - Final Exam : 25%

2. Weight Evaluation Every Achievements Learning Eye Studying
 - CP-MK-1: 5%
 - CP-MK-2: 10%
 - CP-MK-3: 10%
 - CP-MK-4: 15%
 - CP-MK-5: 10%
 - CP-MK-6: 25%
 - CP-MK-7: 25%

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Paint : Weight **form** assessment **assessment** And achievements learning must synchronous

1.1 Table Plan Assessment – Case based method

Form Assessment CPMK and/or Sub- CPMK	Quiz	CBM Tasks	Mid-term exam	Final Exam	Total Percentage
CP-MK1. Students are able to explain and understand the basics of statistics, the concepts of population, samples, parameters and variables.	5				5

CP-MK2. Students are able to understand, handle, and organize And serve data, as well as can apply it on data field farm.		5	5		10
CP-MK3. Student capable understand, know and implement function And utility statistics descriptive Which covering size centralization, size location And size diversification of livestock data.		5	5		10
CP-MK4. Students are able to understand the concept of random variable theory, probability and its use, as well as sampling techniques and their application in the field of animal husbandry.		10	5		15
CP-MK5. Students are able to understand and apply the theoretical concept of point and interval parameter estimation for the average and variance of one and two populations.		5	5		10
CP-MK6. Students are able to understand the basics of hypothesis testing and conduct hypothesis testing with use test t (student), test z, test khi square and test Fisher For data field farm as well as do interpretation based on results analysis the.		10		15	25
CP-MK7. Students understand and are able to conduct regression and correlation analysis and interpret the results of the analysis.		15		10	25
Total Percentage	5	50	20	25	100

1.2 Assignment Format

	PROGRAM STUDIES : FARM				
	FACULTY : FARM				
	UNIVERSITY ANDALAS				
EYE STUDYING	STATISTICS				
CODE	PTK62104	Credits	3	SEMESTER	2
LECTURER RPS DEVELOPER	1. Dr. Ir. Masrizal, MS. 2. Dr. Lendrawati, S.Pt., MP. 3. Rusdimansyah, SPT., MSi.				
TEAM GUARDIAN EYE STUDYING	1. Dr. Ir. Masrizal, MS 2. Dr. Hilda Susanty, S.Pt., M.Sc. 3. Dr. Lendrawati, S.Pt., MP 4. Dr. Ir. Montesqrit, SPT., MP 5. Rusdimansyah, S.Pt., M.Sc. 6. Eli Ratni, S.Pt., MP 7. Ir. Andri, MS 8. El Latifa Sri Suharto, SPT., MSi 9. Kadran Fajrona, SPT., MPt.				
FORM CASE STUDY :	Student shared in groups, 4-5 person per group. Every group must finish 1 topic case selected. Topics case includes: speed And pattern growth cattle in <i>Teaching Farm</i> Faculty Animal husbandry, namely determining the live weight gain of several types of livestock and estimating the live weight of livestock based on body measurements including data circumference, body length, shoulder height, and hip height. Students present data based on variables Which measured, analyze data with use test statistics Good manually or by using several programs, including Microsoft Excel and SPSS.				
THEME TASK: Implementation statistical science in field farm.					

ACHIEVEMENTS LEARNING EYE STUDYING (CPMK and/or SUB-CPMK) WHICH WILL ACHIEVED FROM STUDIES CASE

(written in brackets CPL where Which supported by every CP-MK And Sub CP-MK the)

CPMK:

CP-MK2. Student capable understand, handle, compile And serve data, as well as can apply it on data field farm (CPL 2).

CP-MK3. Student capable understand, know And apply function And utility statistics descriptive Which covering size centralization, size location and size of diversion in livestock data (CPL 2).

CP-MK4. Student capable understand draft theory variables random, opportunity And its use as well as technique sampling And its implementation in livestock sector (CPL 2, CPL 7).

CP-MK5. Student capable understand And apply draft theory estimation parameter in a way point And in a way hose For average and variety One and two populations (CPL 2).

CP-MK6. Student capable understand basics testing hypothesis And do testing hypothesis with use test t (student), test z, test chi-square and Fisher test for livestock data and interpreting the results of the analysis (CPL 2, CPL 7).

CP-MK7. Students understand and are able to conduct regression and correlation analysis and interpret the results of the analysis (CPL 2, CPL 7).

DESCRIPTION TASK

Studies Case I: Student shared become 10 group, Which one each group doing weighing heavy or weight life of each type cattle (among them: chicken, duck, quail, cow/buffalo, goat/sheep, And rabbit), that is 15 tail every type cattle. Weighing carried out 3 (three) times with a one-month interval on the same type and individual livestock.

Studies Case II: Student shared become 10 group, Which where each group do measurement morphometrics (measurement circumference chest, length body, tall shoulders, tall hips) and weight measurement life, that is on cattle/buffalo farming, goat/sheep, And rabbit), namely 15 heads of each type of livestock.

STEP WORK STUDIES TASK:

Each group do:

1. Write Name group in paper, take a photo together, send documentation activity to group WhatsApp.
2. Each group discuss type cattle (chicken, duck, quail, cow/buffalo, goat/sheep, And rabbit) Which will made into sample.

3. For case I: Do weighing the live weight of each individual sample livestock that selected (chicken, duck, quail, cow/buffalo, goat/sheep, And rabbits). Weighing was carried out 3 (three) times with a one-month interval. For case II: Measure chest circumference, body length, shoulder height, hip height and weigh the live weight of each individual sample livestock selected (cow/buffalo, goat/sheep, and rabbit). 4. Do processing data Which includes: average, standard deviation, coefficient diversity, presentation data (table and/or diagram/graph), And test statistics/regression (selection of the type of statistical/regression test according to the hypothesis used and the condition of the data obtained). 5. Making a report with a systematic report includes: Introduction (Background, Objectives and Hypothesis); Materials and Methods of the Practical Work; Results and Discussion; Conclusion; Attachments (measurement data, data processing, and documentation). 6. Presentation results practical work in Local with time each group maximum 15 (five twelve minute).	10
FORM AND OUTPUT FORMAT	
File power point For material presentation And file pdf as report Work group	
INDICATOR, CRITERIA AND WEIGHT EVALUATION	
1. Weight Evaluation Every Form Assessment	
Reporting: 35 Presentation: 65 %	
2. Weight Evaluation Every Achievements Learning Subject	
CP-MK2 : 10% CP-MK3 : 10% CP-MK4 : 15% CP-MK5 : 10% CP-MK6 : 30% CP-MK7 : 25%	
Reference related	

1.3 Rubric Evaluation

Assessment Rubric					
Number Group:					
Name/Number of Students Member:					
1.					
2.					
3.					
4.					
5.					
Achievements Learning Eye Studying Which diases:					
CP-MK2. Students are able to understand, handle, organize, and present data, and can apply it to data in the livestock sector.					
CP-MK3. Student capable understand, know And apply function And utility statistics descriptive which includes measures of centralization, measures of location and measures of disparity in livestock data.					
CP-MK4. Student capable understand draft theory variables random, opportunity And its use as well as technique sampling and its application in the field of animal husbandry.					
CP-MK5. Student capable understand And apply draft theory estimation parameter in a way point And in a way intervals for the mean and variance of one and two populations.					
CP-MK6. Students are able to understand the basics of hypothesis testing and conduct hypothesis testing using the t-test (student), z-test, chi-square test, and Fisher's test for livestock data, as well as interpret the results of the analysis.					
CP-MK7. Student understand And capable do analysis regression And correlation as well as do interpretation based on the results of the analysis.					
Eye Studying: PTK62104. Statistics					
CP- MK	Criteria	(45- 49)	(50- 59)	(60- 74)	(75-100)
		<i>Inferior</i>	<i>average</i>	<i>Good</i>	<i>Excellent</i>
	Report systematics (5%)	Report compiled with incorrect writing system	Report arranged with correct writing system but incomplete	Report compiled with a correct and complete writing system	The report is prepared with correct and complete systematics plus information supporters appropriate
	Clarity and coherence of the report (10%)	Report unclear, not appropriate with the sequence of writing	Report unclear, not in accordance with the sequence of writing	the report is clear, but writing is not coherent	report clear, understandable, written coherently
	Completeness of the contents of the related report analysis and solutions	Incomplete reports convey analysis and solutions	Report fully convey the analysis and discussion solution	Report fully convey the analysis and discussion solution	The report fully conveys analysis and solutions. case discussion, presented in a way And

	case discussion (20%)				
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		case discussion	case but presented unsystematic	cases and presented systematically	plus supporting information
	Composition and completeness of presentation materials (5%)	Presentation materials incomplete and not arranged sequentially or logically	Part large presentation material is complete and arranged sequentially, However less logical	Most of the presentation materials are complete and arranged sequentially. And logical	Complete presentation materials And arranged in a logical and sequential manner
	Presentation of the material delivered (10%)	Incomplete material and presented irrelevant	The material presented is complete and relevant but served with no interesting	The material presented is complete and relevant and presented with interesting	The material presented is complete And relevant and presented with interesting and systematic
	Mastery of presentation material (20%)	Presenter no/mostly no master the presentation material delivered	The presenter controls most of the presentation materials that was delivered	The presenter masters the presentation material that was delivered	The presenter masters the presentation material being delivered and is able to linking with relevant information
	Ability to answer questions (15%)	Presenter unable to answer audience questions	Presenter answers audience questions less well	The presenter is able to answer questions audience well	The presenter is able to answer questions audience very well
	Presentation skills (10%)	The presentation was delivered with no/less interesting	The presentation was delivered with quite interesting	The presentation was delivered with interesting	Presentation delivered very interesting
	Speed and clarity of material delivery (5%)	The material is delivered at a fast pace and pronunciation is not clear	The material is delivered at a fast pace with clear pronunciation	The material is delivered at the right tempo and pronunciation is not clear	The material is delivered at the right tempo with pronunciation. clear