
 Universitas Airlangga	SEMESTER LEARNING PLAN		Prepared by	Examined by	Approved by	Document Registration Number
	SLP		(Person in Charge)	(Head of Bachelor Program / Head of Department)	Vice Dean I	01/S1Kesmas/RPS/2019
			Revision - Date	January 1 st , 2019	Dr. Diah Indriani, S.Si., M.Si	
Faculty of Public Health	Valid on Semester (odd/even) / Academic Year	Odd Semester 2019/2020	(sign)	(sign)	(sign)	

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A. DETAILS OF COURSE


1. Course Name	Advanced Statistics Application
2. Course Code	SIK304
3. Credits (SKS)	2 (two) SKS
4. Semester / Term	VII (seventh)
5. Study Program	Bachelor of Public Health
6. Student Learning Achievement	At the end of the course, students are expected to be able to use statistical software to analyze data
7. Course Learning Achievement	Students can explain the procedure, execution, presentation, interpretation
8. Course Description	This course studies the skills of operating a computer for the benefit of data management, data analysis and explaining results
9. Course Prerequisites (if any)	None
10. Instructor	
11. Teaching Assistants	1. Dr. Windhu Purnomo, dr.,MS 2. Dr. Arief Wibowo, dr., MS 3. Dr. Hari Basuki N., dr., M.Kes 4. Dr. Rachmah Indawati, S.KM, M.KM 5. Dr. Mahmudah Ir.,M.Kes 6. Dr. Diah Indriani, S.Si., M.Si 7. Sigit Ari Saputro, SKM., M.Kes

B. TEACHING PROGRAM

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Week	Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)	Mark / Grade / Percent age (%)	Reference Number Ref. (Number)
1	2	3	4	5	6	7	8	9	10
1	Students are able to use statistical software to analyze data	1. College contract 2. Introduction to the SPSS program package 3. Data entry 4. Data transformation 5. Descriptive Statistics Analysis	Lecture, discussion, practice	LCD, Whiteboard, computer / laptop	2x50 minutes		Analyze, provide feedback, resolve problems, and be honest		1-3
2	Students are able to use statistical software to analyze data	1. Introduction to the SPSS program package 2. Data entry 3. Data transformation 4. Descriptive Statistics Analysis	Lecture, discussion, practice	LCD, Whiteboard, computer / laptop	2x50 minutes		Analyze, provide feedback, resolve problems, and be honest		1-3

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Week	Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)	Mark / Grade / Percentage (%)	Reference Number Ref. (Number)
1	2	3	4	5	6	7	8	9	10
3	Students are able to use statistical software to analyze data	Quantitative data analysis with SPSS: 1. T-test (Free and in pairs) 2. One way Anova and Double comparison test 3. Two way Anova (factorial and block design, Same Subject) 4. Correlation (Pearson) 5. Simple linear regression, and multiple linear regression	Lecture, discussion, practice	LCD, Whiteboard, computer / laptop	2x50 minutes		Analyze, provide feedback, resolve problems, and be honest		1-3
4	Students are able to use statistical software to analyze data	Quantitative data analysis with SPSS:	Lecture, discussion, practice	LCD, Whiteboard,	2x50 minutes		Analyze, provide feedback, resolve		1-3

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1	2	3	4	5	6	7	8	9	10
		1. T-test (Free and in pairs) 2. One way Anova and Double comparison test 3. Two way Anova (factorial and block design, Same Subject) 4. Correlation (Pearson) 5. Simple linear regression, and multiple linear regression		computer / laptop			problems, and be honest		
5	Students are able to use statistical software to analyze data	Quantitative data analysis with SPSS: 1. T-test (Free and in pairs)	Lecture, discussion, practice	LCD, Whiteboard, computer / laptop	2x50 minutes		Analyze, provide feedback, resolve problems, and be honest		1-3

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1	2	3	4	5	6	7	8	9	10
		2. One way Anova and Double comparison test 3. Two way Anova (factorial and block design, Same Subject) 4. Correlation (Pearson) 5. Simple linear regression, and multiple linear regression							
6	Students are able to use statistical software to analyze data	Public Health genome	Lecture, discussion, practice	LCD, Whiteboard, computer / laptop	2x50 minutes		Analyze, provide feedback, resolve problems, and be honest		1-3
7	Students are able to use statistical software to analyze data	Semi-quantitative Data Analysis:	Lecture, discussion, practice	LCD, Whiteboard,	2x50 minutes		Analyze, provide feedback, resolve		1-3

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1	2	3	4	5	6	7	8	9	10
		1. Kolmogorov Smirnov 2. Wilcoxon test (Mann Whetney and Sign Rank) 3. Kruskal Wallis 4. Friedman Test		computer / laptop			problems, and be honest		
MID TERM EXAMINATION									
8	Students are able to use statistical software to analyze data	Semi-quantitative Data Analysis: 1. Kolmogorov Smirnov 2. Wilcoxon test (Mann Whetney and Sign Rank) 3. Kruskal Wallis 4. Friedman Test	Lecture, discussion, practice	LCD, Whiteboard, computer / laptop	2x50 minutes		Analyze, provide feedback, resolve problems, and be honest		1-3
9	Students are able to use statistical software to analyze data	Qualitative Data Analysis: 1. Chi-Square	Lecture, discussion, practice	LCD, Whiteboard,	2x50 minutes		Analyze, provide feedback, resolve		1-3

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1	2	3	4	5	6	7	8	9	10
		2. Mc Nemar, 3. Coefficient of Association, 4. Correlation (Spearman) 5. Simple Logistic Regression, 6. Multiple Logistic Regression		computer / laptop			problems, and be honest		
10	Students are able to use statistical software to analyze data	Qualitative Data Analysis: 1. Chi-Square 2. Mc Nemar, 3. Coefficient of Association, 4. Correlation (Spearman) 5. Simple Logistic Regression,	Lecture, discussion, practice	LCD, Whiteboard, computer / laptop	2x50 minutes		Analyze, provide feedback, resolve problems, and be honest		1-3


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1	2	3	4	5	6	7	8	9	10
		6. Multiple Logistic Regression							
11	Students are able to use statistical software to analyze data	Population Modeling: 1. The concept of population modeling	Lecture, discussion, practice	LCD, Whiteboard, computer / laptop	2x50 minutes		Analyze, provide feedback, resolve problems, and be honest		1-3
12	Students are able to use statistical software to analyze data	Population Modeling: 1. The concept of population modeling	Lecture, discussion, practice	LCD, Whiteboard, computer / laptop	2x50 minutes		Analyze, provide feedback, resolve problems, and be honest		1-3
FINAL TERM EXAMINATION									

C. REQUIRED TEXTS / REFERENCES / ESSENTIAL READINGS

1. Norusis MJ, 2006, SPSS 14,0Guide to data Analisis, Prentice Hall

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2. Norusisi MJ, 2005 SPSS 14.0 Base User Guide, Inc. SPSS
3. Kuntoro, Purnomo W., Wibowo A., Soenarnatalina, Notobroto HB. Indawati R., Mahmudah, Indriani D., 2007, Modul SPSS