
 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. Mahmudah, Ir.,M.Kes.	
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	Sampling Technique
2. Course Code	PNM407
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 will be able to carry out research in the field of public health
7. Course Learning Achievement	1. Students can explain the principles of sampling technique 2. Students can explain the principles of sampling techniques and estimate the required sample size 3. Students can explain the principles of experimental research
8. Course Description	Sampling techniques and Sample Determination discuss about 1) Sampling techniques for observational / survey research which include non-random and random sampling techniques (Simple Random Sampling, Systematic Random Sampling, Stratified Random Sampling, Cluster Random Sampling) 2) Estimating Sample Size from several observational sampling techniques 3) Sampling Techniques for experimental research and how to estimate the sample size 4) Sampling techniques for Rapid Survey research
9. Course Prerequisites (if any)	None
10. Instructor	Dr. Mahmudah, Ir.,M.Kes.
11. Teaching Assistants	Dr.Diah Indriani,S.Si,M.Si Dr. Rachmah I., SKM., MKM.

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 (<i>hard dan soft skills</i>)	Mark / Grade / Percentage (%)	Reference Number Ref. (nomor)
1	2	3	4	5	6	7	8	9	10
1	Students can explain the principles of sampling techniques	1. Course contract 2. Definition of sample 3. Definition of Sampling Techniques	Lectures Discussions	LCD, Whiteboard, Laptop	3x50 minutes		Ability: - listen - communication - analysis - Critical thinking		Book 1,2,3
2	Students can explain the principles of sampling techniques	1. The principle and understanding of non-probability sampling techniques 2. The principle and understanding of probability sampling techniques	Lectures Discussions	LCD, Whiteboard, Laptop	3x50 minutes		Ability: - listen - communication - analysis - Critical thinking		Book 1,2,3

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1	2	3	4	5	6	7	8	9	10
3	Students can explain the principles of sampling techniques and estimate the required sample size	Non Probabilistic Sampling Techniques 1. Non Probabilistic Sampling Technique: Accidental Sampling 2. Non Probabilistic Sampling Techniques: Quota Sampling 3. 3. Non Probabilistic Sampling Techniques: Purposive Sampling	Lectures Discussions	LCD, Whiteboard, Laptop	3x50 minutes		Ability: - listen - communication - analysis - Critical thinking		Book 1,2,3

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4	Students can explain the principles of sampling techniques and estimate the required sample size	Probabilistic Sampling Technique and Sample Size Estimation: 1. Simple Random Sampling Technique 2. Estimated sample size is Simple Random Sampling	Lectures Discussions	LCD, Whiteboard, Laptop	3x50 minutes		Ability: - listen - communication - analysis - Critical thinking		Book 1,2,3
5	Students can explain the principles of sampling techniques and estimate the required sample size	Probabilistic Sampling Technique and Sample Size Estimation: 1. Simple Random Sampling Technique	Lectures Discussions	LCD, Whiteboard, Laptop	3x50 minutes		Ability: - listen - communication - analysis - Critical thinking		Book 1,2,3

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1	2	3	4	5	6	7	8	9	10
		2. Estimated sample size is Simple Random Sampling							
6	Students can explain the principles of sampling techniques and estimate the required sample size	Probabilistic Sampling Technique and Sample Size Estimation: 1. Cluster Random Sampling Technique 2. Estimated sample size of Cluster Random Sampling	Lectures Discussions	LCD, Whiteboard, Laptop	3x50 minutes		Ability: - listen - communication - analysis - Critical thinking		Book 1,2,3
7	Students can explain the principles of sampling techniques and estimate the required sample size	Probabilistic Sampling Technique and	Lectures Discussions	LCD, Whiteboard, Laptop	3x50 minutes		Ability: - listen - communication - analysis		Book 1,2,3

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1	2	3	4	5	6	7	8	9	10
		Sample Size Estimation: 1. Stratified Random Sampling Technique 2. Estimated sample size of Stratified Random Sampling					- Critical thinking		
MID TERM EXAMINATION									
8	Students can explain the principles of experimental research	Experimental Research: 1. Definition of Experimental Research 2. Types and Design of Experimental Research	Lectures Discussions	LCD, Whiteboard, Laptop	3x50 minutes		Ability: - listen - communication - analysis - Critical thinking		Book 1,2,3

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1	2	3	4	5	6	7	8	9	10
9	Students can estimate the sample size needed for experimental research	Sample size estimates for experimental research: 1. Definition of Experimental Research with one sample / group 2. Estimated Sample Size for Means Testing 3. Estimated Sample Size for Proportion Testing	Lectures Discussions	LCD, Whiteboard, Laptop	3x50 minutes		Ability: - listen - communication - analysis - Critical thinking		Book 1,2,3
10	Students can estimate the sample size needed for experimental research	Sample size estimates for experimental research:	Lectures Discussions	LCD, Whiteboard, Laptop	3x50 minutes		Ability: - listen - communication - analysis		Book 1,2,3

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		1. Definition of Experimental Research with one sample / group 2. Estimated Sample Size for Means Testing 3. Estimated Sample Size for Proportion Testing					- Critical thinking		
11	Students can explain the principles of rapid survey, sampling techniques and estimate the required sample size	Rapid Survey, sampling technique and sample size estimation: 1. Definition: Rapid Survey	Lectures Discussions	LCD, Whiteboard, Laptop	3x50 minutes		Ability: - listen - communication - analysis - Critical thinking		Book 1,2,3


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1	2	3	4	5	6	7	8	9	10
12	Students can explain the principles of rapid survey, sampling techniques and estimate the required sample size	Rapid Survey, sampling technique and sample size estimation: 1. Sampling Techniques for Rapid Survey research 2. Estimated sample size for Rapid Survey research	Lectures Discussions	LCD, Whiteboard, Laptop	3x50 minutes		Ability: - listen - communication - analysis - Critical thinking		Book 1,2,3
FINAL TERM EXAMINATION									

C. REQUIRED TEXTS / REFERENCES / ESSENTIAL READINGS

1. Scheaffer, R.L., Mandenhall, W., Lyman OTT. 1986. Elementary Survey Sampling (Third Edition). Duxbury Press, Boston
2. Lemeshow, St., Hosmer, D.W., Klar, J. 1997. Besar Sampel Dalam Penelitian Kesehatan (Terjemahan). Gadjah Mada University Press Yogyakarta
3. Kuntoro. 2008. Metode Sampling Dan Penentuan Besar Sampel. Pusaka Melati Surabaya

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4. Sudjana, 1994. *Desain dan Analisis Eksperimen (Edisi III)*. Penerbit : Tarsito, Bandung.
5. Ariawan, I. , 1996. *Tinjauan Statistika Metode Survey Cepat*. Fakultas Kesehatan Masyarakat Universitas Indonesia bekerja sama dengan Pusat Data Kesehatan Departemen Kesehatan RI.
6. Ariawan, I. (Penyunting), 1996. *Aplikasi Survey Cepat*. Fakultas Kesehatan Masyarakat Universitas Indonesia bekerja sama dengan Pusat Data Kesehatan Departemen Kesehatan RI.