
 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	Nunik Puspitasari, SKM., M.Kes	Dr. Diah Indriani, S.Si., M.Si	Dr. Santi Martini, dr., M.Kes	
Faculty of Public Health	Valid on Semester (odd/even) / Academic Year	Odd Semester 2019/2020	(sign)	(sign)	(sign)	

- Evaluation of this document is needed every year

A. DETAILS OF COURSE

1. Course Name	Demographic Application (Computer Application of Population Analysis)
2. Course Code	SIK303
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 apply demographic software for population analysis
7. Course Learning Achievement	<ol style="list-style-type: none"> 1. Students can explain the scope, data sources, basic population measurements, population data analysis 2. Students can evaluate population data 3. Students can fireplace population data 4. Students can process population data 5. Students can apply computers to calculate fertility 6. Students can apply computers to calculate mortality and life expectancy 7. Students can make population and other demographic projections 8. Students can calculate the impact of population on socio-economics 9. Students can compile a population advocacy media
8. Course Description	The course discusses the Introduction to Computer Applications of Population Analysis (Mortpak, Spectrum, Excell), Evaluation of Population Data (Myers Index, Whipple Index, Join Score Index), Fireplace Population Data (Pro rata, Graduation, Breaking of age groups), Population Data Processing, Measurement of Population Data Fertility, Association of Fertility Measures (CBR, GFR, TFR), Measurement of Mortality and Life Expectancy, Population Projection (Application of Spectrum-Demproj Module), Analysis of Impact of Fertility on Socio-Economy (Application of Spectrum-Module RAPID) on health, education, economy and environment Population Results Advocacy Population Projection.
9. Course Prerequisites (if any)	None
10. Instructor	Nunik Puspitasari, S.KM., M.Kes


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11. Teaching Assistants	<ol style="list-style-type: none"> 1. Dr. Lutfi Agus Salim, S.KM., M.Si 2. Nurul Fitriyah, SKM, MPH 3. Yuly Sulistyorini, S.KM., M.Kes 4. Sigit Ari Saputro, S.KM., M.Kes
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B. TEACHING PROGRAM

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
1	Students can explain the scope, data sources, basic population measures, population data analysis	Data Sources, Population Base Size, Population Data Analysis: <ol style="list-style-type: none"> 1. Population Scope 2. Source of Population Data 3. Basic Population Size 4. Population Data Analysis 	Practical, question and answer demonstration, and case study	Computers, Software, LCD, Laptops, Whiteboards	2x50 minutes		Calculate, Analyze, Provide feedback, Resolve problems, and Honesty		Book 1,2,3,4,5, 6,7,8,9,10

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1	2	3	4	5	6	7	8	9	10
2	Students can evaluate population data	Evaluation of Population Data: 1. Myers Index 2. Whipple Index 3. Join Score Index 4. Pyramid of Population Age Unit	Practical, question and answer demonstration, and case study	Computers, Software, LCD, Laptops, Whiteboards	2x50 minutes		Calculate, Analyze, Provide feedback, Resolve problems, and Honesty		Book 1,2,3,4,5, 6,7,8,9,10
3	Students can tidy up population data	Tidy up population Data: 1. Pro score 2. Graduation	Practical, question and answer demonstration, and case study	Computers, Software, LCD, Laptops, Whiteboards	2x50 minutes		Calculate, Analyze, Provide feedback, Resolve problems, and Honesty		Book 1,2,3,4,5, 6,7,8,9,10
4	Students can process population data	Population Data Processing: 1. Breaking up of age groups	Practical, question and answer demonstration, and case study	Computers, Software, LCD, Laptops,	2x50 minutes		Calculate, Analyze, Provide feedback, Resolve		Book 1,2,3,4,5, 6,7,8,9,10

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1	2	3	4	5	6	7	8	9	10
		2. Determination of Population Program Targets 3. Interpolation and Extrapolation		Whiteboards			problems, and Honesty		
5	Students can apply computers to calculate fertility	Fertility Size Calculation Application: 1. Excell Fertility Calculation Application 2. Mortpak Fertility Calculation Application 3. Fertility Measurement Association	Practical, question and answer demonstration, and case study	Computers, Software, LCD, Laptops, Whiteboards	2x50 minutes		Calculate, Analyze, Provide feedback, Resolve problems, and Honesty		Book 1,2,3,4,5, 6,7,8,9,10

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1	2	3	4	5	6	7	8	9	10
6	Students can apply computers to calculate mortality and life expectancy	Applications for calculating infant mortality and life expectancy: 1. Excell Mortality Calculation Application 2. Mortpak Mortality Calculation Application	Practical, question and answer demonstration, and case study	Computers, Software, LCD, Laptops, Whiteboards	2x50 minutes		Calculate, Analyze, Provide feedback, Resolve problems, and Honesty		Book 1,2,3,4,5, 6,7,8,9,10
MID TERM EXAMINATION									
8	Students can make population and other demographic projections	Population Projection Application (1): 1. Introduction to Population Projection	Practical, question and answer demonstration, and case study	Computers, Software, LCD, Laptops, Whiteboards	2x50 minutes		Calculate, Analyze, Provide feedback, Resolve problems, and Honesty		Book 1,2,3,4,5, 6,7,8,9,10

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1	2	3	4	5	6	7	8	9	10
		2. Calculation of Population Projection Manual							
9	Students can make population and other demographic projections	Population Projection Application (2): 1. Introduction to Spectrum Applications 2. Demproj Spectrum Module Application 3. Installing Spectrum Applications	Practical, question and answer demonstration, and case study	Computers, Software, LCD, Laptops, Whiteboards	2x50 minutes		Calculate, Analyze, Provide feedback, Resolve problems, and Honesty		Book 1,2,3,4,5, 6,7,8,9,10

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1	2	3	4	5	6	7	8	9	10
10	Students can make population and other demographic projections	Population Projection Application (3): 1. Population Projection Data Entry 2. Analysis of Population Projection Results 3. Population Projection Scenarios	Practical, question and answer demonstration, and case study	Computers, Software, LCD, Laptops, Whiteboards	2x50 minutes		Calculate, Analyze, Provide feedback, Resolve problems, and Honesty		Book 1,2,3,4,5, 6,7,8,9,10
11	Students can make population and other demographic projections	Population Projection Application (4): 1. Iteration of Population Projection Results	Practical, question and answer demonstration, and case study	Computers, Software, LCD, Laptops, Whiteboards	2x50 minutes		Calculate, Analyze, Provide feedback, Resolve problems, and Honesty		Book 1,2,3,4,5, 6,7,8,9,10

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1	2	3	4	5	6	7	8	9	10
12	Students can calculate the impact of population on socio-economy	Application of Population Impacts on Social Economy: 1. RAPID Module Spectrum Application 2. RAPID Application Data Entry 3. Analysis of RAPID Application Results	Practical, question and answer demonstration, and case study	Computers, Software, LCD, Laptops, Whiteboards	2x50 minutes		Calculate, Analyze, Provide feedback, Resolve problems, and Honesty		Book 1,2,3,4,5, 6,7,8,9,10
13.	Students can compile a population advocacy media	Population Advocacy Media	Practical, question and answer demonstration, and case study	Computers, Software, LCD, Laptops, Whiteboards	2x50 minutes		Calculate, Analyze, Provide feedback, Resolve problems, and Honesty		Book 1,2,3,4,5, 6,7,8,9,10

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FINAL TERM EXAMINATION									

C. REQUIRED TEXTS / REFERENCES / ESSENTIAL READINGS

1. BKKBN. *Materi Pembelajaran Program Spektrum*. BKKBN. Jakarta. 2011
2. Coale, Ansley J and Paul Demeny. *Regional Model Life Tables and Stable Populations second edition*. San Diego California: Academic Press, Inc. 1983
3. Mantra, Ida Bagoes. *Demografi Umum. Edisi Kedua*. Yogyakarta: Pustaka Pelajar. 2003
4. Mantra, Ida Bagoes, Tukiran, Kasto, dkk. *Studi dan Metodologi Studi Kependudukan*. Yogyakarta: Pusat Antar Universitas UGM. 1992
5. United Nations Manual IV. *Methods of Estimating Basic Demographic Measures From Incomplete Data*. New York: United Nations. 1967
6. United Nations Manual X. *Indirect Techniques For Demographic Estimation*. New York: United Nations. 1983
7. United Nations. *Mortpak For Windows*. New York. 2003
8. USAID. *Demproj. A Computer Program for Making Population Projections*. Health Policy Initiative USAID. 2008
9. USAID. *RAPID. Computer Program For Examining The Socioeconomic Impac of Population Growth*. Health Policy Initiative USAID. 2008