A. DETAILS OF COURSE

1.	**Course Name**	Demographic Technique
2.	**Course Code**	KMD312
3.	**Credits (SKS)**	2 (two) SKS
4.	**Semester / Term**	VI (sixth)
5.	**Study Program**	Bachelor of Public Health
6.	**Student Learning Achievement**	After following this lesson, students are expected to be able to understand, analyze and interpret various population sizes and apply them to the real population data
7.	**Course Learning Achievement**	1. Students can explain the Basic Population Size, Population Data and measurement errors 2. Students can explain Fertility measurement methods, how to calculate and interpret them 3. Students can explain about the method of measurement and analysis of mortality, how to calculate and interpret 4. Students can explain the concepts, benefits, applications, life table analysis and interpretation 5. Students can explain the measurement and analysis of migration rates, migration flows and urbanization rates 6. Students can explain the measurement and analysis of population projection and interpolation 7. Students can explain the measurement and Analysis of Population Indicators and Welfare Indicators 8. Students can explain the measurement and analysis of employment 9. Students can explain the measurement and analysis of nuptiality (marriage and divorce)
8.	**Course Description**	Demographic Technique courses discuss 1) Various basic population measurements and measurement errors, 2) Fertility measurement and analysis methods, 3) Mortality measurement and analysis methods, how to calculate and interpret them, 4) Life Tables, their analysis and interpretation, 5) Measurement and analysis of migration rates, migration flows and urbanization rates, 6), Measurement and analysis of population projections and interpolation, 7) Measurement and Analysis of Population and Welfare Indicators, 8) Measurement and analysis of employment, 9) Measurement and analysis of nuptiality (9) marriage and divorce)
9.	**Course Prerequisites (if any)**	None
10.	**Instructor**	Nunik Puspitasari, S.KM., M.Kes

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Faculty of Public Health	Revision - Date / January 1st, 2019				
	Valid on Semester (odd/even) / Academic Year / Even Semester	(sign)	(sign)	(sign)	

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11. Teaching Assistants	Dr. Windhu Purnomo, dr.,M.S Yuly Sulistyorini, S.KM., M.Kes

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* and *soft* skills)	Mark / Grade / Percentage (%)	Reference Number Ref. (number)
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
1	Students can explain the Basic Population Size, Population Data and measurement error	Introduction to Lectures and the various basic population measures, Population Data and measurement errors: 1. Explain the mechanism of lecture 2. Explain lecture material	Classical lectures, questions and answers, group assignments, class presentations	Laptops, LCDs, wireless microphones, whiteboards and accessories, props (models) contraception, data and real cases	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		1, 2, 3, 4, 5, 6, 7, 8, 9

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1	2	3	4	5	6	7	8	9	10
		3. Explain the evaluation mechanism 4. Explain the importance of Demographic Technique courses for prospective Bachelor of Public Health		for case studies					
2	Students can explain the Basic Population Size, Population Data and measurement error	1. Explain the understanding of absolute numbers, proportions, ratios, rates 2. Explain the kinds of variables in	Classical lectures, questions and answers, group assignments, class presentations	Laptops, LCDs, wireless microphones, whiteboards and accessories,	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		1, 2, 3, 4, 5, 6, 7, 8, 9

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1	2	3	4	5	6	7	8	9	10
		the population census, survey and registration 3. Explain the kinds of errors in measuring population variables 4. Explain methods for correcting measurement errors in population variables		props (models) contraception, data and real cases for case studies					
3	Students can explain Fertility measurement methods, how to calculate and interpret them	Fertility measurement and analysis methods, how to calculate and interpret:	Classical lectures, questions and answers,	Laptops, LCDs, wireless microphones,	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		1, 2, 3, 4, 5, 6, 7, 8, 9

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1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
		1. Problems in measuring the level of fertility in the community 2. Measurement and analysis of CBR, GFR, SFR (ASFR), TFR, GRR, and NRR 3. Analysis of the relationship between CBR, GFR and TFR 4. Standardize direct and indirect fertility measures 5. How to calculate the length of a generation	group assignments, class presentations	whiteboards and accessories, props (models) contraception, data and real cases for case studies					

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1	2	3	4	5	6	7	8	9	10
4	Students can explain Fertility measurement methods, how to calculate and interpret them	Fertility measurement and analysis methods, how to calculate and interpret: 1. Problems in measuring the level of fertility in the community 2. Measurement and analysis of CBR, GFR, SFR (ASFR), TFR, GRR, and NRR 3. Analysis of the relationship between CBR, GFR and TFR	Classical lectures, questions and answers, group assignments, class presentations	Laptops, LCDs, wireless microphones, whiteboards and accessories, props (models) contraception, data and real cases for case studies	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		1, 2, 3, 4, 5, 6, 7, 8, 9

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1	2	3	4	5	6	7	8	9	10
		4. Standardize direct and indirect fertility measures 5. How to calculate the length of a generation							
5	Students can explain about the method of measurement and analysis of mortality, how to calculate and interpret	Measurement methods and Mortality Analysis, how to calculate and interpret: 1. Definition of mortality measures, the concept of PYL (person Years Live) and mid-year population	Classical lectures, questions and answers, group assignments, class presentations	Laptops, LCDs, wireless microphones, whiteboards and accessories, props (models) contraception, data and real cases	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		1, 2, 3, 4, 5, 6, 7, 8, 9

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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* and *soft* skills)	Mark / Grade / Percentage (%)	Reference Number Ref. (number)
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
		2. Types of general mortality measurement, analysis and interpretation 3. Standardization of mortality measurement, analysis and interpretation 4. IMR adjustment, analysis and interpretation 5. Specific measures of mortality, analysis and interpretation		for case studies					

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1	2	3	4	5	6	7	8	9	10
6	Students can explain about the method of measurement and analysis of mortality, how to calculate and interpret	Measurement methods and Mortality Analysis, how to calculate and interpret: 1. Definition of mortality measures, the concept of PYL (person Years Live) and mid-year population 2. Types of general mortality measurement, analysis and interpretation 3. Standardization of mortality	Classical lectures, questions and answers, group assignments, class presentations	Laptops, LCDs, wireless microphones, whiteboards and accessories, props (models) contraception, data and real cases for case studies	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		1, 2, 3, 4, 5, 6, 7, 8, 9

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1	2	3	4	5	6	7	8	9	10
		measurement, analysis and interpretation 4. IMR adjustment, analysis and interpretation 5. Specific measures of mortality, analysis and interpretation							
7	Students can explain the concepts, benefits, applications, life table analysis and interpretation	Life Table (Life Table), analysis and interpretation: 1. Definition and types of Life Tables (Life Table) 2. Analysis and Interpretation of	Classical lectures, questions and answers, group assignments, class presentations	Laptops, LCDs, wireless microphones, whiteboards and accessories, props	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		1, 2, 3, 4, 5, 6, 7, 8, 9

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1	2	3	4	5	6	7	8	9	10
		the complete life table (complete life table) 3. Analysis and Interpretation of the abridged life table.		(models) contraception, data and real cases for case studies					
			MID TERM EXAMINATION						
8	Students can explain the concepts, benefits, applications, life table analysis and interpretation	Life Table (Life Table), analysis and interpretation: 1. Definition and types of Life Tables (Life Table) 2. Analysis and Interpretation of the complete life	Classical lectures, questions and answers, group assignments, class presentations	Laptops, LCDs, wireless microphones, whiteboards and accessories, props (models)	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		

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1	2	3	4	5	6	7	8	9	10
		table (complete life table) 3. Analysis and Interpretation of the abridged life table.		contraception, data and real cases for case studies					
9	Students can explain the concepts, benefits, applications, life table analysis and interpretation	Life Table (Life Table), analysis and interpretation: 1. Definition and types of Life Tables (Life Table) 2. Analysis and Interpretation of the complete life table (complete life table)	Classical lectures, questions and answers, group assignments, class presentations	Laptops, LCDs, wireless microphones, whiteboards and accessories, props (models) contraception, data and	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		1, 2, 3, 4, 5, 6, 7, 8, 9

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1	2	3	4	5	6	7	8	9	10
		3. Analysis and Interpretation of the abridged life table.		real cases for case studies					
10	Students can explain the measurement and analysis of migration rates, migration flows and urbanization rates	Measurement and analysis of migration rates, migration flows and urbanization rates: 1. Analysis and Interpretation of various migration measures 2. Analysis and Interpretation of various measures of Urbanization	Classical lectures, questions and answers, group assignments, class presentations	Laptops, LCDs, wireless microphones, whiteboards and accessories, props (models) contraception, data and real cases for case studies	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		1, 2, 3, 4, 5, 6, 7, 8, 9

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1	2	3	4	5	6	7	8	9	10
		and population growth 3. Practice calculating various measures of mobility, providing analysis and interpretation							
11	Students can explain the measurement and analysis of population projection and interpolation	Measurement and analysis of population projections and interpolation: 1. Explain the concept of population projection and interpolation	Classical lectures, questions and answers, group assignments, class presentations	Laptops, LCDs, wireless microphones, whiteboards and accessories, props (models)	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		1, 2, 3, 4, 5, 6, 7, 8, 9

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1	2	3	4	5	6	7	8	9	10
		2. Explain the types of population projection methods 3. Measurement and analysis of population projections using Linear methods (arithmetic growth, geometric growth, and exponential growth methods) 4. Measurement and analysis of population projections using		contraception, data and real cases for case studies					

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1	2	3	4	5	6	7	8	9	10
		the correlation method and the component method 5. Exercises to calculate population projection and interpolation							
12	Students can explain about the measurement and Analysis of Population Indicators and Welfare Indicators	Measurement and Analysis of Population Indicators and Welfare Indicators: 1. Explain the variables measured in population indicators	Classical lectures, questions and answers, group assignments, class presentations	Laptops, LCDs, wireless microphones, whiteboards and accessories, props (models)	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		1, 2, 3, 4, 5, 6, 7, 8, 9

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1	2	3	4	5	6	7	8	9	10
		2. Determination of the standard population indicators the old way 3. Determination of standards for population indicators in a new way 4. Concepts and analysis of the Quality of Life Index (IMH) 5. Concept and analysis of the Quality of Life Index (IMH) Plus		contraception, data and real cases for case studies					

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1	2	3	4	5	6	7	8	9	10
		6. Concepts, methods of calculating and analyzing the Human Development Index (HDI) 7. The concept of a prosperous family and other welfare indicators							
13.	Students can explain about labor measurement and analysis	Labor measurement and analysis: 1. Explain the measurement and analysis of TPAK, TAU, TAK, TAL, TAP and TP	Classical lectures, questions and answers, group assignments, class presentations	Laptops, LCDs, wireless microphones, whiteboards and accessories,	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		1, 2, 3, 4, 5, 6, 7, 8, 9

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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* and *soft* skills)	Mark / Grade / Percentage (%)	Reference Number Ref. (number)
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
		2. Explain the measurement and analysis of Real and False Dependents 3. Practice calculating and analyzing various employment measures		props (models) contraception, data and real cases for case studies					
14.	Students can explain the measurement and analysis of nuptiality (marriage and divorce)	Measurement and analysis of nuptiality (marriage and divorce): 1. Explain the concept of measuring Nuptiality (the	Classical lectures, questions and answers, group assignments, class presentations	Laptops, LCDs, wireless microphones, whiteboards and accessories, props	2x50 minutes		Honesty, Responsibility, Discipline, analytical skills		1, 2, 3, 4, 5, 6, 7, 8, 9

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

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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* and *soft* skills)	Mark / Grade / Percentage (%)	Reference Number Ref. (number)
1	2	3	4	5	6	7	8	9	10
		size of marriage and divorce) 2. Marriage size measurement and analysis 3. Divorce size measurement and analysis 4. Practice counting and analyzing various measures of Nuptiality (a measure of marriage and divorce)		(models) contraception, data and real cases for case studies					
FINAL TERM EXAMINATION									

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 1st, 2019	Nunik Puspitasari, S.KM., 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	Even Semester	(sign)	(sign)	(sign)	

- Evaluation of this document is needed every year

C. REQUIRED TEXTS / REFERENCES / ESSENTIAL READINGS

1. Badan Pusat Statistik (BPS), 2011. Hasil Sensus Penduduk Tahun 2010. Badan Pusat Statistik (BPS)
2. Badan Pusat Statistik (BPS), 2011. Kabupaten dan Kota di Jawa Timur Dalam Angka. Badan Pusat Statistik (BPS)
3. Barclay GW, 1990. Teknik Analisa Kependudukan. LP3ES. Jakarta.
4. Ida Bagus Mantra, 2003. Demografi Umum. Pustaka Pelajar, Yogyakarta.
5. Siegel, Jacob S and David A. Swanson. 2004. The Method and Material of Demography. Second Edition. Elsevier Academic Press, USA.
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7. Palmore JA and Gardner RW, 1983. Measuring Mortality, Fertility, and Natural Increase. The East-West Cen-ter. Honolulu, USA.
8. Smith, David P., 1992. Formal Demography. Plenum Press, New York.
9. World Health Organisation (WHO), 2006. Reproductive Health Indicators, Guidelines for Their Generation, Interpretation and Analysis for Global Monitoring. World Health Organisation (WHO).