
 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	Arief Hargono, drg., M.Kes	Dr. Diah Indriani, S.Si., M.Si	Dr. Santi Martini, dr., M.Kes	
Valid on Semester / Academic Year	Even Semester	(sign)	(sign)	(sign)		
Faculty of Public Health						

- Evaluation of this document is needed every year

A. DETAILS OF COURSE


1. Course Name	Public Health Surveillance
2. Course Code	KME 204
3. Credits (SKS)	3 (three) SKS
4. Semester / Term	IV (fourth)
5. Study Program	Bachelor of Public Health
6. Graduate Learning Outcomes	After completing this course, students are expected to know the concepts, components, and implementation of epidemiological surveillance in the field of public health, which include surveillance in nutrition, environmental health, and occupational health
7. Course Learning Outcomes	Collect and interpret data and information related to risks and benefits applying the process of data collection and information technology applications
8. Course Description	This course is an integration of materials taught by several departments in public health. Contains the implementation of the scope of epidemiological surveillance, which includes surveillance of PD3I, HIV, Nosocomial Infection, dimension, nutritional surveillance, and SKPG. This course also discusses the application of surveillance for monitoring food-borne disease, water-borne disease, soil-borne disease, water-borne disease as well as surveillance in health and workplace accidents. The materials are delivered through lecture and assignment. Assignment using online system.
9. Course Prerequisites (if any)	None
10. Instructor	Arief Hargono, drg., M.Kes
11. Teaching Assistants	<ol style="list-style-type: none"> 1. Arief Hargono, drg., M.Kes (PJMK) 2. Lucia Y. Hendrati, SKM., M.Kes 3. Dr. Merryana Adriani, SKM., M.Kes 4. Dr. Anis Catur Adi, Ir., MSi 5. Prof. Soedjadi Keman, dr., MS., PhD 6. Dr. Ririh Yudhastuti, drh., MSc 7. Prof. Dr. Tri Martiana, dr., MS 8. Sho`im Hidayat, dr., MS

 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	Arief Hargono, drg., M.Kes	Dr. Diah Indriani, S.Si., M.Si	Dr. Santi Martini, dr., M.Kes	
Valid on Semester / Academic Year	Even Semester					
Faculty of Public Health			(sign)	(sign)	(sign)	

- Evaluation of this document is needed every year


B. TEACHING PROGRAM

Weeks	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 Indicators of Evaluation (hard and soft skills)	Grade (%)	Reference Number
1	2	3	4	5	6	7	8	9	10
1	Students are able to explain the concept and implementation of public health surveillance	1. Definition of epidemiological surveillance 2. Scope of epidemiological surveillance 3. Components of epidemiological surveillance 4. Implementation of public health surveillance	1. Lectures 2. Discussions	LCD and Laptop	3x50 minutes		Complex thinking		2
2	Students are able to explain the surveillance systems of AFP, TN, Measles, Diphtheria	1. AFP surveillance concepts and methods 2. Concepts and methods of TN surveillance 3. Measles surveillance concepts and methods	1. Lectures 2. Discussions	LCD and Laptop	3x50 minutes		1. Listening ability 2. Effective communication		Book 2 Book 3

 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	Arief Hargono, drg., M.Kes	
Faculty of Public Health	Valid on Semester / Academic Year	Even Semester	(sign)	(sign)	(sign)	


- Evaluation of this document is needed every year

Weeks	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 Indicators of Evaluation (hard and soft skills)	Grade (%)	Reference Number
1	2	3	4	5	6	7	8	9	10
		4. Diphtheria surveillance concepts and methods							
3	Students are able to explain the concepts and implementation of HIV and AIDS sentinel surveillance	1. HIV and AIDS Diseases 2. HIV Sentinel 3. AIDS surveillance	1. Lectures 2. Discussions	LCD and Laptop	3x50 minutes		Complex thinking		1
4	Students are able to explain the concept and implementation of nosocomial infection surveillance in hospitals	1. Nosocomial surveillance concepts 2. Nosocomial surveillance implementation	1. Lectures 2. Discussions	LCD and Laptop	3x50 minutes		Complex thinking		
5	Students are able to explain the concepts and implementation of nutritional surveillance	1. Concepts of nutritional surveillance: a. Definition and basic principles b. Purposes and scope	1. Lectures 2. Discussions	LCD and Laptop	3x50 minutes		Complex thinking		

 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	Arief Hargono, drg., M.Kes	Dr. Diah Indriani, S.Si., M.Si	Dr. Santi Martini, dr., M.Kes	
Valid on Semester / Academic Year	Even Semester					
Faculty of Public Health			(sign)	(sign)	(sign)	


- Evaluation of this document is needed every year

Weeks	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 Indicators of Evaluation (hard and soft skills)	Grade (%)	Reference Number
1	2	3	4	5	6	7	8	9	10
		2. Implementation of nutritional surveillance: a. Nutritional surveillance activities b. Utilization of nutritional surveillance results c. Reporting and feedback of nutritional surveillance							
6	Indicators of successful implementation of nutritional surveillance activities	1. Nutritional Surveillance Indicators 2. Nutritional Surveillance Performance Indicators	1. Lectures 2. Discussions	LCD and Laptop	3x50 minutes		Complex thinking		
7	Students practice solving problems with surveillance systems	Assignment	Assignments	LCD and Laptop	3x50 minutes		Complex thinking		
MID-SEMESTER EXAMINATION									

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


- Evaluation of this document is needed every year

Weeks	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 Indicators of Evaluation (hard and soft skills)	Grade (%)	Reference Number
1	2	3	4	5	6	7	8	9	10
8	Students are able to explain Food and Nutritional Alert Surveillance	1. SKPG concept 2. SKPG Implementation 3. SKPG Indicators	1. Lectures 2. Discussions	LCD and Laptop	3x50 minutes		Complex thinking		Book 3 Book 4
9	Students are able to explain surveillance on food-borne diseases and water-borne diseases	1. Foodborne disease surveillance mechanism: a. Definition of food borne disease b. Scope of food-borne disease c. Food-borne disease surveillance mechanism 2. Water-borne disease surveillance mechanism: a. Definition of water-	1. Lectures 2. Discussions	LCD and Laptop	3x50 minutes		1. Critical thinking 2. Effective communication 3. Teamwork		11,12

 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	Arief Hargono, drg., M.Kes	Dr. Diah Indriani, S.Si., M.Si	Dr. Santi Martini, dr., M.Kes	
Valid on Semester / Academic Year	Even Semester					
Faculty of Public Health			(sign)	(sign)	(sign)	


- Evaluation of this document is needed every year

Weeks	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 Indicators of Evaluation (hard and soft skills)	Grade (%)	Reference Number
1	2	3	4	5	6	7	8	9	10
		borne disease b. Scope of water-borne disease c. Water-borne disease surveillance mechanism							
10	Students are able to explain surveillance on soil- borne diseases and air-borne diseases	1. Soil-borne disease surveillance mechanism a. Definition of soil-borne diseases b. Scope of soil-borne diseases c. Soil-borne disease surveillance mechanism	1. Lectures 2. Discussions	LCD and Laptop	3x50 minutes		1. Critical thinking 2. Communication 3. Teamwork		13,14

 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	Arief Hargono, drg., M.Kes	
Faculty of Public Health	Valid on Semester / Academic Year	Even Semester	(sign)	(sign)	(sign)	


- Evaluation of this document is needed every year

Weeks	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 Indicators of Evaluation (hard and soft skills)	Grade (%)	Reference Number
1	2	3	4	5	6	7	8	9	10
		2. Soil-borne disease surveillance mechanism a. Definition of air-borne disease b. Scope of air-borne diseases c. air-borne disease surveillance mechanism							
11	Students are able to explain the concepts and implementation of dimensional surveillance	1. Concepts of dimensional surveillance 2. Implementation of dimensional surveillance	1. Lectures 2. Discussions	LCD and Laptop	3x50 minutes		1. Critical thinking 2. Communication 3. Teamwork		
12	Students are able to explain the basic philosophy of OHS, which is why workers are at risk of suffering from	1. Explanation of the meaning of risk, hazard in the workplace as risk factors	1. Lectures 2. Discussions	LCD and Laptop	3x50 minutes		1. Critical thinking 2. Communication 3. Teamwork		

 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	Arief Hargono, drg., M.Kes	Dr. Diah Indriani, S.Si., M.Si	Dr. Santi Martini, dr., M.Kes	
Valid on Semester / Academic Year	Even Semester					
Faculty of Public Health			(sign)	(sign)	(sign)	

- Evaluation of this document is needed every year

Weeks	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 Indicators of Evaluation (hard and soft skills)	Grade (%)	Reference Number
1	2	3	4	5	6	7	8	9	10
	illnesses and/or accidents due to their work	2. Explanation of the role of each risk factor and how to evaluate it 3. Explanation of variables due to exposure to hazards and how to conduct valuations							
13.	Students are able to explain concepts of injury surveillance	Scope of injury surveillance Objectives and benefits of injury surveillance Components of injury surveillance Mechanism and examples of injury surveillance	1. Lectures 2. Discussions	LCD and Laptop	3x50 minutes		1. Critical thinking 2. Effective communication 3. Teamwork		15, 16
FINAL-SEMESTER 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 1 st , 2019	Arief Hargono, drg., M.Kes	
Faculty of Public Health	Valid on Semester / Academic Year	Even Semester	(sign)	(sign)	(sign)	

- Evaluation of this document is needed every year

C. REQUIRED READINGS

Readings :

1. DFID (Department for International Development), 2000, *Behavioral Surveillance Surveys*, Guidelines For Repeated Behavioral Surveys In Populations At Risk Of HIV
2. Thacker, S.B., 2000, History of Public Health surveillance, dalam: Teutch, S.M., R.E., Churchil (eds): Principle and Practice of Public Health Surveillance, Second Edition, Oxford University Press Inc, New York
3. Astagneau, P., 1998, Epidemiology of Nosocomial Infections, *Rev-Prat.* 1998, 48(14):1525-9
4. Bergogne, B.E., 1999, Current Guidelines for The Treatment and Prevention of Nosocomial Infections, *Drugs.*, 58(1): 51-67
5. Gaynes, R.P., 1992, The Surveillance of Nosocomial Infections. *Public Health Surveillance.* Van Nostrand Reinhold. New York.
6. Last, J.M., 1988, *A Dictionary of Epidemiology, second edition*, Oxford University Press, New York: 65 dan 90
7. Richards, M.J., Edwards, J.R., Culver, D.H., dan Gaynes, R.P., 1999a, Nosocomial Infections in Medical Intensive Care Units in the United States. National Nosocomial Infections Surveillance System, *Crit-Care-Med*, 27 (5):887 - 92.
8. Richards, M.J., Edwards, J.R., Culver, D.H., dan Gaynes, R.P., 1999b, Nosocomial Infections in Pediatric Intensive Care Unit in the United States. National Nosocomial Infections Surveillance System, *Pediatric*, 103 (4): e 39
9. Schiffman, R.B., dan Howanitz, P.J., 1994, Nosocomial Infections. *Arch Pathol Lab Med.* Vol. 118:115-119, Los Angeles
10. German, R.R., D. Westmoreland, G. Armstrong, G.S. Birkhead, J.M. Horan, G. Herrera, *et al.*, 2001. Updated Guidelines for Evaluating Public Health Surveillance System. Recommendation from the Guidelines Working Group, CDC, mmwrq@cdc.gov.
11. WHO/CDS/CSR/ISR/99.2 (2012) WHO Recommended Surveillance Standard, 2nd Ed, WHO Department of Communicable Disease Surveillance and Response.
12. CDC (2013) Foodborne Illness Surveillance Systems
13. Nelson L. Nemerow, Franklin J. Agardy, Patrick Sullivan, Joseph A. Salvato. 2009. Environmental Engineering: Prevention and Response to Water-, Food-, Soil-, And Air-Borne Disease and Illness, Sixth Edition. John Wiley and Sons. Inc.
14. Jeffery and W.H. Van Der Putten .2011. Soil Borne Human Diseases, JRC 65787
15. CDC (2013) Injury Surveillance
16. WHO. 2006. Guidelines for disease surveillance
The OHSU Center for research on Occupational and Environmental Toxicology
Consensus Recommendation for Injury Surveillance in State health Departemen Report from the Injury Surveillance Work group (ISWS) STIPDA.