
 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	Kurnia Dwi Artanti,dr.,M.Sc	Dr. Diah Indriani, S.Si., M.Si	Dr. Santi Martini, dr., M.Kes	
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Faculty of Public Health						

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A. DETAILS OF COURSE


1. Course Name	Epidemiology of Tropical Disease
2. Course Code	KME407
3. Credits (SKS)	3 (three) SKS
4. Semester / Term	VI (sixth)
5. Study Program	Bachelor of Public Health
6. Graduate Learning Outcomes	At the end of the course, students will be able to understand the problem of disease in tropical areas, its distribution based on the patterns of disease, determinants, and risk factors, as well as aspects of prevention and mitigation
7. Course Learning Outcomes	Students are able to explain the epidemiological approach that can and has been done to overcome tropical diseases
8. Course Description	This course discusses the magnitude of the problem of tropical diseases, their distribution in Epidemiology approach, and the determinants and risk factors for infectious diseases, as well as aspects of prevention and control of tropical diseases. The focus of the discussion is on the control and prevention of tropical diseases and the basic pathogenic mechanisms of selected tropical diseases, which are currently major problems in public health. The course includes laboratory sessions and lectures in class.
9. Course Prerequisites (if any)	Epidemiology of Communicable Disease
10. Instructor	Kurnia Dwi Artanti,dr.,M.Sc
11. Teaching Assistants	Kurnia Dwi Artanti, dr., M.Sc Priyono Satyabakti,dr.,MS Dr. M. Atoillah ,dr.,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 / Percentage (%)	Reference Number Ref. (nomor)
1	2	3	4	5	6	7	8	9	10
1	Students are able to explain the epidemiological approach that can and has been done to overcome tropical diseases	1. Basics of tropical disease control policies 2. Performance indicators in tropical disease control, achievement efforts, and results achieved	1. Lectures 2. Discussions	LCD	2x50 minutes		Complex thinking		1,2,3,4
2	Students are able to explain the epidemiological approach of tropical diseases that are transmitted through lice and mites	1. Definition of the concept of causes of tropical diseases that are transmitted through lice and mites 2. Data on morbidity of diseases	1. Lectures 2. Discussions	LCD	2x50 minutes		Complex thinking		1,2,3,4

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1	2	3	4	5	6	7	8	9	10
		transmitted by lice and mites 3. The pattern of diseases transmitted by lice and mites 4. prevention and control of diseases transmitted by lice and mites 5. Performance indicators in controlling diseases transmitted by lice and mites							
3	Students are able to explain the epidemiological approach to tropical diseases caused by protozoa	1. Definition of the concept of the causes of tropical	1. Lectures 2. Discussions	LCD	2x50 minutes		Complex thinking		1,2,3,4

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1	2	3	4	5	6	7	8	9	10
		diseases caused by protozoa 2. Data on the morbidity of tropical diseases caused by protozoa 3. The pattern of tropical diseases caused by protozoa 4. Prevention and control of tropical diseases caused by protozoa 5. Performance indicators in controlling tropical diseases							

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1	2	3	4	5	6	7	8	9	10
		caused by protozoa							
4	Students are able to explain the epidemiological approach of tropical diseases caused by fungi (mycosis)	1. Definition of the concept of causes of tropical diseases caused by fungi (mycosis) 2. Data on morbidity caused by fungi (mycosis) 3. Pattern of disease caused by fungi (mycosis) 4. Prevention and control of diseases caused by fungi (mycosis)	1. Lectures 2. Discussions	LCD	2x50 minutes		Complex thinking		1,2,3,4

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1	2	3	4	5	6	7	8	9	10
		5. Performance indicators for controlling diseases caused by fungi (mycosis)							
5	Students are able to explain the epidemiological approach to tropical diseases caused by Helminthiasis worms	1. Definition of the concept of causes of tropical diseases caused by Helminthiasis worms 2. Data on the morbidity of tropical diseases caused by Helminthiasis worms 3. The pattern of tropical diseases caused by	1. Lectures 2. Discussions	LCD	2x50 minutes		Complex thinking		1,2,3,4

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1	2	3	4	5	6	7	8	9	10
		Helminthiasis worms 4. prevention and control of tropical diseases caused by Helminthiasis worms 5. Performance indicators in controlling tropical diseases caused by Helminthiasis worms							
6	Students are able to explain the epidemiological approach to tropical diseases caused by Helminthiasis worms	1. Definition of the concept of tropical diseases caused by	1. Lectures 2. Discussions	LCD	2x50 minutes		Complex thinking		1,2,3,4

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1	2	3	4	5	6	7	8	9	10
		Helminthiasis worms 2. Data on the morbidity of tropical diseases caused by Helminthiasis worms 3. The pattern of tropical diseases caused by Helminthiasis worms 4. Prevention and control of tropical diseases caused by							

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1	2	3	4	5	6	7	8	9	10
		Helminthiasis worms 5. Performance indicators in controlling tropical diseases caused by Helminthiasis worms							
7	Students are able to determine the morphology of worms and their eggs	1. Introduction of laboratory instruments related to the method of making helminthology preparations. 2. Identification of worms that cause diseases	1. Lectures 2. Discussions	LCD	2x50 minutes		Complex thinking		1,2,3,4

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1	2	3	4	5	6	7	8	9	10
		3. Identifying worm eggs							
MID-SEMESTER EXAMINATION									
8	Students are able to explain the epidemiological approach of waterborne tropical diseases (leptospirosis)	1. Definition of the concept of the causes of waterborne tropical diseases (leptospirosis) 2. Data on morbidity of waterborne diseases (leptospirosis) 3. Pattern of waterborne diseases (leptospirosis) 4. Prevention and control of waterborne	1. Lectures 2. Discussions	LCD	2x50 minutes		Complex thinking		1,2,3,4

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1	2	3	4	5	6	7	8	9	10
		diseases (leptospirosis) 5. Performance indicators in controlling waterborne diseases (leptospirosis)							
9	Students are able to explain the epidemiological approach of tropical diseases transmitted through vectors (flies and cockroaches).	1. Definition of the concept of causes of tropical diseases transmitted through vectors (flies and cockroaches) 2. Data on morbidity of diseases transmitted through vectors	1. Lectures 2. Discussions	LCD	2x50 minutes		Complex thinking		1,2,3,4

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1	2	3	4	5	6	7	8	9	10
		(flies and cockroaches) 3. Pattern of diseases transmitted through vectors (flies and cockroaches) 4. Prevention and control of vector-borne (flies and cockroaches) diseases 5. Performance indicators in controlling vector-borne (flies and cockroaches) diseases							

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1	2	3	4	5	6	7	8	9	10
10	Students are able to explain the epidemiological approach of tropical diseases transmitted through vectors (mosquitoes); chikungunya and malaria.	<ol style="list-style-type: none"> 1. Definition of the concept of causes of tropical diseases transmitted through vectors (mosquitoes); chikungunya and malaria 2. Data on morbidity of diseases transmitted through vectors (mosquitoes); chikungunya and malaria 3. Pattern of diseases transmitted through vectors 	<ol style="list-style-type: none"> 1. Lectures 2. Discussions 3. Assignments 	LCD	2x50 minutes		Complex thinking		1,2,3,4

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1	2	3	4	5	6	7	8	9	10
		(mosquitoes); chikungunya and malaria 4. Prevention and control of diseases transmitted through vectors (mosquitoes); chikungunya and malaria 5. Performance indicators in controlling diseases transmitted through vectors (mosquitoes); chikungunya and malaria							

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1	2	3	4	5	6	7	8	9	10
11	Students are able to explain the epidemiological approach of tropical diseases caused by bacteria II: Trachoma and yaws (yaws)	1. Definition of the concept of causes of tropical diseases caused by bacteria II: Trachoma and yaws (yaws) 2. Morbidity data of diseases caused by bacteria II: Trachoma and yaws (yaws) 3. Pattern of diseases caused by bacteria II: Trachoma and yaws (yaws) 4. Prevention and control of	1. Lectures 2. Discussions	LCD	2x50 minutes		Creative thinking		

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1	2	3	4	5	6	7	8	9	10
		diseases caused by bacteria II: Trachoma and yaws (yaws) 5. Performance indicators in controlling diseases caused by bacteria II: Trachoma and yaws (yaws)							
12	Students are expected to be able to determine the preparation and identification of the types of plasmodium that cause malaria	1. Introduction and how to use laboratory equipment 2. How to identify the types of plasmodium that causes malaria	Practicum	Microscope and material practicum (preparat)	2x50 minutes		1. Creative thinking 2. Teamwork 3. Discipline		

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1	2	3	4	5	6	7	8	9	10
13.	After conducting a field survey, students are expected to be able to observe larvae	1. Larvae observation procedure 2. How to calculate the larva-free number 3. Larva type identification 4. Sample collection 5. Practice report writing 6. Survey results seminar	1. Seminar 2. Practical assignment in field	Flaslight	2x50 minutes		1. Creative thinking 2. Teamwork		
FINAL EXAMINATION									

C. REQUIRED TEXTS / REFERENCES / ESSENTIAL READINGS

Readings :

1. Chin, James, (2000), *Control of Communicable Diseases Manual*, 17th ed. American Public Health Association, Washington.
2. Hawker, J., Begg, N., Blair, I., Reintjes, R., Weinberg, J., (2009), *Communicable Disease Control Handbook*, 2nd, Blackwell Publishing, Oxford.

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3. Cook, G.C., Zumla, A.I., (2003), *Manson's Tropical Disease*, 21th ed., W.B. Saunders, Philadelphia
 4. Noah, N., O'Mahony, M., (2009), *Communicable Disease: Epidemiology and Control*, Wiley Publisher, London.