

Mater of Science (Public Health Infectious diseases and Epidemiology)

Faculty of Public Health, Mahidol University

Information on Courses	
1	Course Name: Infectious Diseases and Determinants of Public Health
2	Course code: PHIE500
3	Name(s) of Course Director: Assoc. Prof. Manee Chanama Asst. Prof. Sukhontha Siri Lec. Dr. Suwanna Chaorattanakawee
4	Rational For the inclusion of the course in the program: This is the foundation course for competency of the Master of Science (Public Health Infectious Diseases and Epidemiology).
5	Semester/year Offered : 1/1
6	Credit value: 3 credits
7	Pre-requisite (if any) : -
8	Objective (s) of Course: Students are expected to : Describe basic knowledge in infectious diseases, vector-borne diseases, cause and factors associated with endemic, emerging and reemerging infectious disease, host immunity to infection, public health practices for disease prevention and control.
9	Course learning outcome (CLO) : Upon completion of the course, students are able to 1. Explain basic knowledges in infectious diseases caused by bacteria, virus, fungus, protozoa, helminths, and ectoparasite, as well as, vector-borne diseases. 2. Explain causation and factors associated with endemic, emerging, and reemerging infectious diseases in aspects of causative agents, virulence, and pathogenesis 3. Explain mechanisms of host immunity to defense and response to infection 4. Identify public health approaches for disease prevention and control.
10.	Transferable skill Logical thinking skill, communication, teamwork, and information technology
11.	Teaching and learning assessment strategy: Computer-based evaluation by students and course verification by program committee at the end of this course
12.	Course description; Basic knowledge in infectious diseases, cause and factors associated with endemic, emerging and reemerging infectious disease in population, public health practices

	for disease prevention and control.
13.	Teaching methods: Interactive lectures, teaching with discussion, group work.
14.	Evaluation methods and types: Classroom participation, group work assignment, and presentation Examination (mid-term and final examinations)

15. Content outline of the course/module and SLT per topic

Topic	CLO	No. of Hours			
		Lecture	Practice	SL	TLT
1. Importance and determinants of infectious diseases	1, 2	3	0	6	9
2. Basic knowledge in infectious disease caused by bacteria	1	3	0	6	9
3. Bacterial infection and diseases	1, 2	5	0	10	15
4. Fungal infection and diseases	1	1	0	2	3
5. Viral infection and diseases	1	3	0	6	9
6. Endemic parasitic diseases, emerging, reemerging, zoonotic diseases, and diseases in national surveillances system	1, 2	2	0	4	6
7. Preliminary in diagnosis and treatment of parasitic diseases	1	1	0	2	3
8. Cestodiasis and disease determinants	1, 2	2	0	4	6
9. Trematodiasis and disease determinants	1, 2	2	0	4	6
10. Nematodiasis and disease determinants	1, 2	3	0	6	9
11. Blood and tissue protozoa and disease determinants	1, 2	2	0	4	6
12. Intestinal protozoa and disease determinants	1, 2	2	0	4	6
13. Ectoparasite and vector-borne disease	1, 2	4	0	8	12
14. Immunology of infectious diseases	3	6	0	12	18
15. Public health effort and health system	4	3	0	6	9
16. Disease prevention and control	4	3	0	6	9
Total	45	45	0	90	135

Note : SL = self-learning, TLT = total learning time