Master of Science (Public Health Infectious diseases and Epidemiology)

Faculty of Public Health, Mahidol University

	Information on Courses
1	**Course Name:** Seminar in infectious Diseases and Epidemiology
2	**Course code:** PHIE603
3	**Name(s) of Course Director:** Asst. Prof. Dr. Natnaree Aimyong Asst. Prof. Dr. Chayaporn Saranpuetti Lect.Dr. Sirilak Dusitsittipon
4	**Rational For the inclusion of the course in the program:** This is the core course for competency of the Public Health
5	**Semester/year Offered :** 1st year / semester 1
6	**Credit value:** 2 (2-0-4)
7	**Pre-requisite (if any) : -**
8	**Objective (s) of Course:** Students are expected to : 1. Strengthen research ethics and morality. 2. Knowledgeable, and able to logically analyze, synthesize, review, discuss, and present the update research papers in the infectious diseases and epidemiology. 3. Responsible to individual and/or group assignment. 4. Communicate and use information technology for presentation effectively.
9	**Course learning outcome (CLO) :** Upon completion of the course, students are able to 1. Define research ethics and morality 2. Logically analyze, synthesize, review, and discuss the update research papers in the infectious diseases and epidemiology. 3. Present the update research papers in the infectious diseases and epidemiology.
10.	**Transferable skill** Logical thinking, analytical thinking, academic communication, 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;** This course is one of the elective course for the Master of Public Health. It covers multi-factors influencing infectious disease and epidemiological approach for etiology, diagnosis, treatment, prevention, control and eradication of microbial pathogens, vector borne, zoonotic, emerging, and re-emerging infections
13.	**Teaching methods:** Paper assignment Classroom discussion Questions and answers Class participation
14.	**Evaluation methods and types:** Presentation evaluation based on Rubric criteria and consulting based on seminar advisor's evaluation form (40%) Observing student in class-participation (30%) Quiz (20%) Attendance (10%) Grading (**A**; ≥85 scores, **B+**; 80-84.9 scores, **B**; 75-79.9 scores)

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

		No. of Hours			
Topic	CLO	Lecture	Practice	SL	TLT
1. - Introduction, class regulation, and research ethics - Literature search for public health infectious diseases and epidemiology by application of information technology - Summarize research articles - Presentation preparation - Assign research topics	1, 2	2	0	4	6
2. Self- study and consulting	2	0	0	4	4
3. **Seminar 1:** Bacterial respiratory disease (Tuberculosis)	1,2,3	2	0	4	6
4. **Seminar 2:** Cardiovascular infectious disease (Rheumatic heart disease: Cross sectional study)	1,2,3	2	0	4	6

15. Content outline of the course/module and SLT per topic					
		No. of Hours			
Topic	CLO	Lecture	Practice	SL	TLT
5. Seminar 3: Lymphovascular tract / Tissue parasitic infection (Filariasis, Trichinellosis)	1,2,3	2	0	4	6
6. Seminar 4: Viral respiratory disease (SARS: Case Control study)	1,2,3	2	0	4	6
7. **Seminar 5:** Bacterial foodborne disease (Salmonellosis, Shigellosis, Vibriosis)	1,2,3	2	0	4	6
8. **Seminar 6:** Viral foodborne disease (Norovirus/Rotavirus infection)	1,2,3	2	0	4	6
9. **Seminar 7**: Arthropod borne diseases I (Zika fever: Cohort study)	1,2,3	2	0	4	6
10. **Seminar 8:** Arthropod borne diseases II (Malaria)	1,2,3	2	0	4	6
11. **Seminar 9:** Nosocomial and antimicrobial resistance bacterial infection	1,2,3	2	0	4	6
12. **Seminar 10 :** Liver-bile duct parasitic infectious disease (Cholangiocarcinoma)	1,2,3	2	0	4	6
13. **Seminar 11:** Genitourinary tract and reproductive infection (Human papilloma virus infection: Diagnostic study)	1,2,3	2	0	4	6
14. **Seminar 12:** Intestinal parasitic infection (Amebiasis, Teniasis)	1,2,3	2	0	4	6
15. **Seminar 13:** Sexual transmitted diseases (Herpes zoster infection: Experimental study)	1,2,3	2	0	4	6
16. **Seminar 14**: Zoonotic disease (*Blastocystis* sp. infection)	1,2,3	2	0	4	6
Total	1,2,3	30	0	64	94

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