Master of Science (Public Health Infectious Diseases and Epidemiology) Faculty of Public Health, Mahidol University

	Information on Courses
1	Course Name: Thesis
2	Course code: PHIE 698
3	Name(s) of Course Director:
	1) Assistant Professor Dr. Fuangfa Utrarachkij
	2) Assistant Professor Dr. Tawee Saiwichai
	3) Assistant Professor Dr. Sukhontha Siri
4	Rationale for the inclusion of the course in the program:
	This course is designed to help students develop their critical thinking, analytical
	and research skills on developing Master's thesis in the Master of Science (Public
	Health Infectious Diseases and Epidemiology).
5	Semester/year Offered: 1-2/2
6	Credit value: 12 credits (0-48-0)
7	Objective (s) of Course:
	At the end of this course students should be able to:
	1. Identify and create a research proposal of special interest.
	2. Demonstrate the ability to conduct a research relevant to infectious diseases and epidemiology in public health.
	3. Demonstrate writing skills by writing a clear research proposal and thesis with scientifically based concepts.
	4. Develop effective communicative skills to present research of interest, methods,
	findings, and conclusions.
8	Course learning outcome (CLO):
	On successful completion of this course students will be able to:
	1. Conduct independent research on microbiology, parasitology, and epidemiology
	in public health.
	2. Demonstrate skills in critical thinking, data analysis and interpretation, and
	writing in public health infectious diseases and epidemiology.
	3. Produce a thesis of good quality to be published in scientific journal or
	Proceedings in public health infectious diseases and epidemiology.
	4. Effectively present and defend research project orally on emerging, re-emerging

	and non-communicable diseases .
9.	Transferable skill:
	Critical thinking skill, analytical skill, writing skill, and communication skill
10.	Teaching and learning assessment strategy:
	Course evaluation by students and course verification by program committee at the
	end of this course
11.	Course description:
	Research on infectious diseases and epidemiology in public health; bioinformatics
	of microbiology, parasitology and entomology; mathematical model and
	geographic information system; application of microbiological, parasitological, and
	epidemiological methods in disease prevention and control; ethical research
	practice
12.	Teaching methods:
	teaching with discussion, process supervision, doing experiment, and practice.
13.	Evaluation methods and types:
	Proposal and thesis examination.

15. Content outline of the course/module and SLT per topic No. of Hours Topic CLO Lecture Practice SL TLT 1, 2 1. Literature review to create research proposal 2. Research proposal writing and 1, 2 examination 3. Research conducting: data collection, 1, 2 48 0 48 result analysis and interpretation 0 1, 2, 4 4. Thesis progress report 5. Thesis writing 1, 2, 3 1, 2, 3, 4 6. Thesis examination 7. Thesis publication in scientific journal or 1, 2, 3, 4 Proceedings 0 48 0 48 Total

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