Subject Description Form

Subject Code	HTI5601					
Subject Title	Epidemiology					
Credit Value	3					
Level	5					
Responsible staff & Department/School	Prof. Gilman SIU (HTI), Dr. Gloria LI (HTI), Dr. Bear XIONG					
Pre-requisite / Co-requisite/ Exclusion	Knowledge of research methods and data analysis is strongly recommended					
Objectives	To discuss the practical use of epidemiology with emphasis on the methods used in collection and analysis of epidemiological data.					
	To identify and discuss the usefulness of sources and use of epidemiological data					
	To critically analyse epidemiological studies.					
	To examine the use of epidemiological data in the planning and evaluation of health care activities.					
Intended Learning Outcomes	 Upon completion of the subject, students will be able to: a. demonstrate understanding of the basic concepts of epidemiology b. identify sources and use epidemiological data and information. c. critically review epidemiological studies to assess their usefulness for research and health care planning. 					
	d. demonstrate understanding of the epidemiological considerations for the planning and evaluation of health activities, services or programmes.					
Subject Synopsis/ Indicative Syllabus	 Concepts of epidemiology: development of epidemiological methods, causality, validity. Sources of epidemiological information: demography, mortality and morbidity statistic, disease mapping, prevalence and incidence. Infectious disease epidemics: investigation and management; application of epidemiological methods in the control of disease in Hong Kong Epidemiological methods: descriptive studies, cohort studies, case control studies, intervention studies. Health planning and evaluation. Selective examples of use of epidemiological techniques in the outbreak investigation. 					
Teaching/Learning Methodology	Lectures, Tutorials, Seminars Lectures are used to introduce the concepts of epidemiology and provide a solid basis for discussion of individual studies which are used in tutorials. Seminars involve demonstrations of the use of epidemiological studies in various contexts and discussion of the adequacy of published studies to answer research questions.					

Assessment Methods in Alignment with Intended Learning	Specific assessment methods/tasks	% weighting	Intenc	rning outco	omes to be				
Outcomes			а	b	c	d			
	1. Mini-review presentations	30 %		\checkmark	\checkmark	\checkmark			
	2. Written report	40 %	\checkmark	\checkmark	\checkmark	\checkmark			
	3. Test	30 %	\checkmark			\checkmark			
	Total	100 %							
	Students are required to identify suitable materials for their presentations which re them to critically evaluate the content of the epidemiological studies and to determine usefulness in the context of local healthcare needs. The test covers the concepts of epidemiology as well as interpretation of epidemiolo data.								
Student Study Effort Expected	Class contact:								
	Lectures					24 Hrs.			
	Tutorials					6 Hrs.			
	 Seminars 					9 Hrs.			
	Other student study effort:								
	 Assignment preparation 					30 Hrs.			
	• Self-study					30 Hrs.			
	Total student study effort					99 Hrs.			
Reading List and References	Szklo, M. (2019) Epidemiology : beyond the basics. (4 th Ed). Sudbury Massachusett Jones and Bartlett								
	Fletcher, R.H, Fletcher, S. (2 Williams & Wilkins.	er, R.H, Fletcher, S. (2014). Clinical Epidemiology - the essentials. (5 th Ed) Baltimore: ms & Wilkins.							
	Giesecke, Johan. (2017) 3 rd Ed Modern infectious disease epidemiology. London : Arnold								
	Jekel, DL, Elmore, JG, Katz, DL. (2020) Jekel's Epidemiology. Biostatistics and Preventive Medicine. 5 th Ed Philadelphia: Saunders.								
	Wang, Jung-Der (2002) Basic principles and practical applications in epidemiologic research . River Edge, N.J.: World Scientific								