Course Title/Code:	Environmental and Occupational Epidemiology (MMPH6190)
Department:	Community Medicine
Objective:	 The primary objective is to provide the students with a comprehensive overview of environmental and occupational epidemiology (EOE). The students will learn the basic principles, strengths and limitations of various study designs and risk measures used in EOE, illustrated by published studies. After completing the course, the students will be able to design EOE investigations, perform data analysis, interpret results and prepare study reports. The students will be able to read and evaluate published papers critically. The course will prepare students to function effectively as EOE investigators.
Content:	 Introduction: historical development and landmark studies of EOE. Study designs commonly used in EOE (ecological studies, cross-sectional surveys, population-based and nested case-control studies, and historical and prospective cohort studies). Data sources and data collection (surveillance programs, registries, data linkage, follow-up, interviews and questionnaires). Assessment and adjustment of biases or confounding factors. Exposure assessment, surrogate measures and exposure indices. Analytical techniques (stratified analysis, multivariate models, exposure-response, trend analysis), risk measures (RR, OR, SMR, PMR, PCMR, MOR), and statistical power analysis. Critical appraisals of published studies of environmental/occupational hazards. The course consists of lectures supplemented with directed in-class discussions of selected examples of EOE investigations.
Prerequisite:	MMPH6002 –Introduction to Biostatistics (or equivalent)
Duration:	1 semester; 24 contact hours
Coursework Examination ratio:	50% Course Work 50% Examination
Remarks:	Also offered to RPg from other Faculties at HKU. Prior approval from the Department of Community Medicine must be sought for enrolment.