Course title <English>	環境衛生学 Environmental Health	Affiliated department, Job title,Name	Graduate School of Medicine Professor,KOIZUMI AKIO Graduate School of Medicine Associate Professor,HARADA KOUJI

Grade alloted	Professional degree students	Number of credits	1	Course offered year/period	2015/The first half of first semester

Day/period	Thu.2	Class style	Lecture	Language	Japanese and English

[Outline and Purpose of the Course]

I. Course Description
An overview of modern environmental problems will be given to provide the basis of the risk assessment of chemicals for human health.

[Course Goals]

II. Course Goals and Objectives
To have an overview of modern environmental problems
To understand dose-response relationship, LD50, threshold, inter-species difference and basic toxicology
To acquire skills for risk assessment
To acquire skills to describe the regulatory strategy to minimize the toxic effects of chemicals
To predict major metabolism processes for representative chemicals
To understand biological basis for carcinogenesis and risk assessment for carcinogens

[Course Schedule and Contents]

Course Schedule
Apr 9 (Koizumi) Specialty in public health: An introduction to the career creation
Apr 16 (Koizumi)
1. Environmental Health Sciences in Primary Health Care
2. A historical environmental health problem - Minamata disease- and its lesson
Apr 23 (Koizumi) Environmental pollution: Pb, Hg, As, Cd, PCB, Dioxin, etc.
Apr 30 (Koizumi) Environmental pollution to human health: metabolism and pharmacokinetics and modeling, Neonicotinoids
May 7 (Harada) Environmental pollution: Organic chemicals, TCDD, PCB etc.
May 14 (Harada) Biology of carcinogenesis and risk assessment: Case in Fukushima
May 21 (Harada) Prevention of environmental pollution: Regulation and control
Jul 30 (Koizumi) Additional topic
Examination May 28

[Class requirement]

Core areas, Required and Elective

Continue to 環境衛生学(2)↓↓↓

環境衛生学(2)

[Method, Point of view, and Attainment levels of Evaluation]

V. Course Grade
Attendance and active participation in the lecture 50%
Examination 50 %

[Textbook]

Not used
IV. Course Text and Readings
Handouts

[Reference books, etc.]

（Reference books）

[Regarding studies out of class (preparation and review)]

III. Methods of Instruction
Lectures and discussion

（Others (office hour, etc.)）

“Environmental Health”, “Introduction to Toxicology”, “Toxicology” and “On the Bench Training” are in series. Those who wish to take “Toxicology” and “On the Bench Training” should take “Environmental Health”.

*Please visit KULASIS to find out about office hours.