

Course title <English>	産業・環境衛生学 Occupational health and environmental health sciences	Affiliated department, Job title, Name	Graduate School of Medicine Professor, KOIZUMI AKIO Graduate School of Medicine Associate Professor, HARADA KOUJI		
Grade allotted	Professional degree students	Number of credits	1	Course offered year/period	2016/The first half of first semester
Day/period	Thu.2	Class style	Lecture	Language	Japanese and English
[Outline and Purpose of the Course]					
An overview of modern environmental problems and industrial health will be given to provide the basis of the risk assessment of chemicals for human health.					
[Course Goals]					
To have an overview of modern environmental problems and industrial health					
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					
1 Apr 14 (Koizumi) Specialty in public health: An introduction to the career creationEnvironmental Health Sciences in Primary Health Care					
2 Apr 21 (Koizumi) Environmental pollution: Heavy metals and organic pollutants					
3 Apr 28 (Harada) Environmental pollution to human health: metabolism and pharmacokinetics and modeling, Neonicotinoids					
4 May 12 (Satomura) Introduction to industrial health					
5 May 19 (Harada) Biology of carcinogenesis and risk assessment: Case in Fukushima					
6 May 26 (Harada) Prevention of environmental pollution: Regulation and control					
7 Jun 2 (Koizumi) Examination					
8 Aug 4 (Koizumi) Additional topic					
[Class requirement]					
Required					
[Method, Point of view, and Attainment levels of Evaluation]					
Attendance and active participation in the lecture 50%					
Examination 50 %					
[Textbook]					
Handouts					
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[Reference books, etc.]

(Reference books)

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

“Occupational health and environmental health sciences” , “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 “Occupational health and environmental health sciences” .

(Others (office hour, etc.))

*Please visit KULASIS to find out about office hours.