

Course title <English>	ベンチトレーニングコース On the Bench Training Course	Affiliated department, Job title, Name	Graduate School of Medicine Associate Professor, HARADA KOUJI Graduate School of Medicine Professor, KOIZUMI AKIO		
Grade allotted	Professional degree students	Number of credits	2	Course offered year/period	2016/Second semester
Day/period	Fri.3,4	Class style	Lecture	Language	Japanese and English
[Outline and Purpose of the Course]					
I. Course Description The practice of the GLP will be given for learning protocol writing, protocol presentation, protocol meeting, sample collection, sample measurement, audit, paper writing and review.					
[Course Goals]					
II. Course Goals and Objectives Skills in handling Gas Chromatography / Mass Spectrometry (GC-MS) Skill for protocol writing in accordance with the practice of GLP Conduct laboratory works in accordance with GLP Skill the experimented data Skill the experimented data Skill to write a company paper					
[Course Schedule and Contents]					
Course Schedule 1 Oct 7 Orientation 2 Oct 14 Gas Chromatography 24-1, 24-2, 24-3 3 Oct 21 Gas Chromatography 24-4, 24-5 4 Oct 28 Mass Spectrometry 22-1, 22-2 5 Nov 4 Mass Spectrometry 22-3, 22-4 6 Nov 11 Discussion of theme 7 Nov 18 Presentation of background 8 Nov 25 Protocol Writing 9 Dec 2 Protocol Presentation 10 Dec 9 Sample collecting 11 Dec 16 Sample measurement (1) 12 Jan 6 Sample measurement (2) 13 Jan 13 Summarize the data 14 Jan 20 Presentation the data 15 Jan 27 Writing Paper					
[Class requirement]					
Elective. Required for the students of department of Health and Environmental Sciences.					
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ベンチトレーニングコース(2)

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

V. Course Grade
Attendance and active participation 50%
Presentation 50%

[Textbook]

Not used
IV. Course Text and Readings
Handouts
1. Code of Federal Regulations ICH Guideline
2. Quantitative Chemical Analysis 6th edition Daniel C. Harris, W. H. Freeman and Company, 2003

[Reference books, etc.]

(Reference books)

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

III. Methods of Instruction
Lecture and small group working

(Others (office hour, etc.))

Credits of “Introduction to Toxicology” and “Occupational health and environmental health sciences” simultaneous registration of “Toxicology” are required.

*Please visit KULASIS to find out about office hours.