

**Subject: Socio-economic and Environmental Aspects
of Sustainability-oriented Flood Management**

Course number: DMP2900E

Instructor: Assoc. Prof. Miho OHARA

Term/Time: Fall through Spring

1. Course Description

This course provides the basic understanding of socio-economic and environmental aspects of flood management. The first stage of the course aims to study how to assess socio-economic impacts of disasters and manage the identified risk. The second stage of the course introduces environmental aspects of flood management.

2. Course Outline(Course Topics)

Week

1. Outline of Socio-economic and environmental aspects
2. Methodology of risk assessment
3. Socio-economic impacts of disasters(1)
4. Socio-economic impacts of disasters(2)
5. Example of risk assessment, Guest lecturer, Mr. Sawano, ICHARM
6. Impacts of information dissemination(1)
7. Impacts of information dissemination (2), Guest lecturer, Mr. Kodaka
8. ICT application for risk management
9. Land use control for risk reduction
10. Environmental impacts of dams, Guest lecturer, Mr. Iwami, ICHARM
11. Environmental impacts of dams, Professor Sumi, Kyoto University
12. Sediment management in reservoirs, Professor Sumi, Kyoto University
13. Sediment management in reservoirs, Professor Sumi, Kyoto University
14. Concept of “Build Back Better”
15. Exam

3. Grading

60% Assignments and participation

40% Exams and short quizzes

4. Textbooks

4.1 Required

4.2 Others

Provided by the instructor