

## **Subject: Local Disaster Management and Hazard Mapping**

Course number : DMP283E

Instructor : Prof. Shigenobu TANAKA

Term / Time : Fall through Spring

### 1 Course Description

This course provides not only general knowledge on disaster prevention countermeasures in Japan, but also practical knowledge and techniques such as flood hazard maps which are indispensable for local disaster management. In addition, students will also have opportunity to interview to local governmental officers, community leaders and residents to learn/understand actual situation of local disaster management.

### 2 Course Outline (Course Topics)

Week

- 1 : Outline of disaster prevention countermeasures in Japan
- 2 : River information and early warning system in Japan
- 3 : Flood fighting law and some water levels for evacuation criteria
- 4 : Outline of flood hazard map and evacuation plan and local disaster management plan
- 5 : Communication system during floods in Japan (1)
- 6 : Communication system during floods in Japan (2)
- 7 : Communication system during floods in Japan (3)
- 8 : Community based disaster management
- 9 : Disaster imagination game (DIG)
- 1 0 : Decision making under uncertainty (1)
- 1 1 : Decision making under uncertainty (2)
- 1 2 : Geomorphology around rivers and alluvial plain (1)
- 1 3 : Geomorphology around rivers and alluvial plain (2)
- 1 4 : Discussion on local disaster management plan(1)
- 1 5 : Discussion on local disaster management plan(2)

### 3 Grading

Reports (40%), Final Exam (60%)

If a report is late for the deadline, it will be not evaluated.

### 4 Textbooks

4-1 Required

"Local Disaster Management and Hazard Mapping" (2009), ICHARM

4-2 Others