

Subject: Urban Flood Management and Flood Hazard Mapping

Course number : DMP2870E

Instructor : Prof. Shigenobu TANAKA

Term / Time : Fall through Spring

1 Course Description

This course is specifically designed to study urban flood management. In the first stage of the course, students will learn about Japan's basic legal systems for flood risk management, river planning, flood control structures and comprehensive flood control measures for urban areas. The second stage aims to acquire knowledge required to promote early public evacuation. Students will also study topography psychological aspects underlying public behavior during disaster.

2 Course Outline (Course Topics)

Week

1	: Laws for flood risk management in Japan	Prof. TANAKA
2	: Flood control planning (1)	Prof. TANAKA
3	: Flood control planning(2)	Prof. TANAKA
4	: Flood control structure	Mr. Kamoto
5	: Case study of comprehensive flood control measures -Tsurumi river-	Mr. Imbe
6	: Flood hazard map	Prof. TANAKA
7	: Evacuation Plan with Flood Forecast(1)	Prof. TANAKA
8	: Evacuation Plan with Flood Forecast(2) Group simulation	Prof. TANAKA
9	: Local disaster management plan	Prof. TANAKA
10	: Emergency operation (1)	
11	: Emergency operation (2)	
12	: Geomorphology around rivers and alluvial plain (1)	
13	: Geomorphology around rivers and alluvial plain (2)	
14	: Developments in social sciences on people's reactions and responses to disasters	
15	: Examination	

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