

Subject: Urban Flood Management

Course number : DMP284E

Instructor : Project Prof. Kei KUDOU

Term / Time : Fall through Winter

1 Course Description

This course provides the basic and practical knowledge of urban flood risk management in Japan; characteristics of urban flood (including inundation by flooding), countermeasures against urban flood and administration of urban rivers. Case studies will be conducted in the fields.

2 Course Outline (Course Topics)

Week

- 1 : Outline of urban flood
- 2 : Countermeasures of urban flood
- 3 : Characteristics and analysis of inundation (1)
- 4 : Characteristics and analysis of inundation (2)
- 5 : Characteristics and analysis of inundation (3)
- 6 : Countermeasure against inundation (1)
- 7 : Countermeasure against inundation (2)
- 8 : Case Study (1) Ara River
- 9 : Case Study (2) Tsurumi River
- 10 : Administration of urban rivers
- 11 : Developments in social sciences on people's reactions and responses to disasters(1)
- 12 : Developments in social sciences on people's reactions and responses to disasters(2)
- 13 : Disaster Education
- 14 : Effect of forest
- 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

4-2 Others