Water-related Disaster Management
Course of Disaster Management
Policy Program

- Level: Leading to a Masters degree
- Duration: One year (October – September)
- Partners:
  - National Graduate Institute for Policy Studies (GRIPS) – Degree awarding institution
  - ICHARM – Teaching, supervision and assessment
  - JICA – Provides financial sponsorship
Objectives: To foster solution oriented practitioners with solid theoretical and engineering bases that can serve for planning and practices of flood management within the framework of integrated river basin management at all levels from nations to localities.

Eligible/Target Organization:
Technical officials, engineers and/or researchers in the field of river management or water-related disaster management

Total Number of Participants (in 2007-2008)
10 (Bangladesh - 2, China - 3, Nepal - 1, India -1 and Japan – 3)
Characteristics;  
1 year master’s course (1年で修士号が取得できる)
- first half: Lectures & Exercises; latter half: Master Thesis

“Problem Solving-Oriented” training course  （課題解決型研修）
- The participants should analyze their water-related problems and think how to promote solutions as a part of Action Plan.
- “Practical” rather than “Theoretical”  （理論よりも実務）
### Structure of the Program:

#### Lectures
- **Introduction to International Cooperation**
- **Basic Study for Disaster Management Policy**
- **Water-related Disaster Management**
  - Disaster Risk Management
  - Hydrological Observation, Modeling & Forecasting
  - Hydraulics
  - Integrated Flood Risk Management (IFRM) (1)
- **Application Study for Water-related Disaster Management**
  - Integrated Flood Risk Management (IFRM) (2)
  - Integrated Flood Risk Management (IFRM) (3)
- **Flood Hazard Mapping & Evacuation Planning**
- **Sustainable Reservoir Development & Management**
- **Control Measures for Landslide & Debris Flow**

#### Exercises
- **Practice on Hydrological Observation, Modeling & Forecasting**
- **Practice on Hydraulics**
- **Practice on Integrated Flood Risk Management**
- **Practice on Hazard Mapping & Evacuation Planning**
- **Practice on Sustainable Reservoir Development & Management**
- **Practice on Control Measures for Landslide & Debris Flow**

#### Field Trips

#### Individual Study
Structure of the Program;

Lecture on River Training by Prof. Fukuoka

Field Trip in Tsurumi River Retarding basin

Lecture on Sabo by Dr. Okubo

Field Trip in Nikko Sabo Works
1. Mr. DAI, Ming-Long (China) “Dam-break flood analysis in mid-down stream of Han River”
2. Mr. Khanindra BARMAN (India) “Development of flood forecasting model in Brahmaputra valley of India”
4. Mr. Mitra BARAL (Nepal) “Rainfall run off modelling and inundation analysis of Bagmati River at Terai region of Nepal”
5. Mr. Muhammad MASOOD (Bangladesh) “Flood hazard and Risk Assessment in Mid-Eastern part of Dhaka, Bangladesh”
6. Ms. YE, Li-Li (China) “Flood Risk Analysis and Risk Management in Mengwa Detention Basin”
7. Mr. Yasuo Kannami (Japan) “Establishment of Country-based Flood Risk Index”
8. Mr. Hirohisa Miura (Japan) “The analysis of flood risk awareness at resident level in Mekong River basin”
9. Mr. Ryota Ojima (Japan) "Impact Assessment of road construction on the flood inundation in Dhaka, Bangladesh"
10. Mr. Ji Zhou (China) "A numerical study on the open channel network in Wuxi city"
New intake (2008-2009)

Bangladesh -2
China – 2
Ethiopia -1
Indonesia -1
Nepal -1
Thailand -2
Issues that may need attention for the course to remain sustainable

• Competitiveness of the course when compared with other similar courses
• How to attract high quality students
• How to change from a resources driven course to a demand driven course
• Seeking recognition of the degree internationally