NUMADA LAB.

Disaster Management Training by Critical Thinking

Department of Human and Social Systems
Emerging Design and Informatics Course, Interfaculty Initiative in Information Studies

Disaster Management

Department of Civil Engineering, Graduate School of Engineering
Emerging Design and Informatics Course, GSII

https://tdmtc.tokyo/

Past experience → **Standard Process/ modeling** → **Technology/ Social System** → **Training** → **Real Disaster**

☆ Past experience

2011 Tohoku disaster
...

2016年 Kumamoto earthquake

Database of past experience

North Kyusyu heavy rain

2018 Western Japan heavy rain

☆ Standard Process/ modeling

Stakeholder | Mitigation | Preparedness Before | Warning | Assessment After | Emergency | Recovery | Reconstruction

Phase

Organization

Based on the past disaster management research results, 47 kinds of response categories and 500 processes are defined

Color: category

☆ Technology/ Social System

Detail process

Detail explanation

- **Business Operation Support System (BOSS)**
- **Voice – text Analyzer**
- **Drone system**
- **Ground survey system** etc.

Plan, Manual, Law, Form

☆ Training

All phots: Trial training

(1) Nov. 27th to 30th, 2018 (4days)
@Minami izu town: 70 participants

(2) Dec. 19th to 21th, 2018 (3days)
@IIS: 50 participants

(3) Feb. 12th to 15th, 2019 (4days)
@Minami izu town: 120 participants

(4) March 13th to 15th, 2019 (3days)
@IIS: 60 participants

Use of former Mihama Elementary School which became abolished school in Minamiizu Town. For regional revitalization Contribution

Training starts from October 2019: Systematic and practical training for central and local governments, business sectors/ companies, local disaster prevention leaders, etc.

☆ Real Disaster

2016 central Italy earthquake

Support for the real disaster field by DMTC team

2018 Kurasiki city

Institute of Industrial Science, The University of Tokyo