

Advanced Disaster Reduction Engineering

2 units (selection)

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Target The purpose of this subject is to understand the present conditions in natural disaster reduction and to learn theory and technology about disaster reduction measures.

Outline First, the present conditions for natural disaster reduction in Japan are presented. Next, effective methods to promote voluntary activities for disaster reduction are presented with practices.

Style Lecture and exercise

Keyword regional disaster reduction, voluntary activities of disaster reduction

Relational Lecture “災害リスク論”(1.0), “Advanced Earthquake Engineering”(0.5), “Applied Fluid Dynamics”(0.5)

Requirement not specified

Notice not specified

Goal

1. To understand the present conditions in regional disaster reduction
2. To learn the bases of theory and technology for voluntary activities of disaster reduction

Schedule

1. Guidance, Outline of this subject
2. Strategy for natural disaster reduction
3. Strategy for earthquake disaster reduction
4. Voluntary activities of disaster reduction
5. Risk management for natural disaster in a company, report(1)
6. Damage assumption for the Nankai earthquake
7. Practice of disaster imaging (1)
8. Practice of disaster imaging (2)
9. Practice of disaster imaging (3)
10. Disaster imaging game “Crossroad”
11. Practice with the DIG game “Crossroad”
12. How to make a map for natural disaster reduction
13. Practice of making a map for natural disaster reduction (1)
14. Practice of making a map for natural disaster reduction (2)
15. Education for disaster reduction, Report(2)

Evaluation Criteria marks of report (1) and (2) are summed with the weights of 4 and 6, respectively, and the passing mark is 60%.

Textbook To be introduced in the class.

Reference To be introduced in the class.

Webpage <http://hyd.ce.tokushima-u.ac.jp/suiko/index.htm>

Contents <http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=216754>

Student Able to be taken by only specified class(es)

Contact

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