

## mitigation engineering

2 units (selection)

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**Target** To understand the background and the significance of mitigation and to acquire fundamental principles of mitigation technique.

**Outline** To explain concept, history, technology and examples of mitigation for national land development and global environment problems

**Style** Lecture

**Keyword** *mitigation, coastal environment, ecosystem, environmental restoration*

**Fundamental Lecture** “Principles of Disaster Risk”(1.0), “Urban and Regional Planning”(1.0)

**Relational Lecture** “Advanced Environmental Ecology”(0.5), “Advanced Environmental Systems Engineering”(0.5)

**Goal** To acquire ideas and fundamental of mitigation

**Schedule**

1. Introduction
2. Deterioration of coastal environment
3. Mitigation for coastal environment(1)
4. Mitigation for coastal environment(2)
5. Mitigation for coastal environment(3)
6. Mitigation for coastal environment(4)
7. Environmental Risk
8. Mitigation of global environment problems(1)
9. Mitigation of global environment problems(2)
10. Discussion: Mitigation for land development(1)
11. Discussion: Mitigation for land development(2)
12. Discussion: Mitigation for land development(3)
13. Discussion: Mitigation for land development(4)
14. Discussion: Mitigation for land development(5)
15. Examination
16. Discussion

**Evaluation Criteria** Evaluate learning results by reports, debates and examination

**Textbook** To be introduced in the class

**Reference** To be introduced in the class

**Contents** <http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=216894>

**Contact**

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**Note** Preparation (2 hours) and review (2 hours) is required for each class.