Advanced building construction

2 units (selection)

Shoji Miyamoto · Part-time Lecturer

Target〉 The purpose of this subject is to learn the bases of structure design caluculation and seismic safety evaluation of a building construction.

Outline〉 In this subject, invited extraordinary lecturer, who is a first class authorized practical architect and builder, introduces design calculation and seismic safety evaluation of a building construction.

Style〉 Lecture

Keyword〉 *design calculation, seismic safety evaluation*

Fundamental Lecture〉 "**Introduction of Architecture**"(0.5), "**Architectural Environmental Engineering**"(0.5), "**Architectural Planning**"(0.5)

Relational Lecture〉 "**Advanced Fracture and Structural Mechanics**"(0.5)

Requirement〉 Student are required to have a good understanding of undergraduate-level structure mechanics.

Goal〉 To understand the bases of design calculation and seismic safety evaluation of a building

Schedule〉

1. Guidance/Introduction
2. Basis of design calculation (part 1)
3. Basis of design calculation (part 2)
4. Basis of design calculation (part 3)
5. Basis of design calculation (part 4)
6. Basis of design calculation (part 5)
7. Basis of design calculation (part 6)
8. Basis of design calculation (part 7)
9. Basis of seismic safety evaluation (part 1)
10. Basis of seismic safety evaluation (part 2)
11. Basis of seismic safety evaluation (part 3)
12. Basis of seismic safety evaluation (part 4)
13. Basis of seismic safety evaluation (part 5)
14. Basis of seismic safety evaluation (part 6)
15. Basis of seismic safety evaluation (part 7)
16. Assignment of term paper

Evaluation Criteria〉 Assignments count 100%

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=216645

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

Contact〉

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