Information Security
2 units (selection)

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Target⟩ This lecture aims at presenting knowledge about Information Security Management System.

Outline⟩ Through this lecture, students have to learn methodology about information security from various viewpoints such as planning, implementing, checking, and management. They also study concrete technologies on these topics.

Keyword⟩ *information security, Confidentiality, Integrity, Availability*

Fundamental Lecture⟩ "**Introduction to Computer**"(1.0)

Relational Lecture⟩ "**Operating System**"(0.5), "**System Administration**"(0.5)

Goal⟩ Skills development and knowledge acquisition on information security management system.

Schedule⟩
1. Introduction to Information Security Management System
2. Diversification of Network Threats
3. Security Policy
4. Access Control
5. Encryption Method
6. Common Key Cryptosystem
7. Public Key Cryptosystem
8. Authentication and Authorization
9. Public Key Infrastructure
10. Malware and Security System
11. Network Security Management
12. Firewall and Filtering
13. Intrusion Detection System and Intrusion Prevention System
14. Secure Development
15. Summary of the lecture
16. Examination

Evaluation Criteria⟩ Comprehensive evaluation due to the result of examination and reports.

Textbook⟩ 特に指定なし．適宜資料配付．

Reference⟩ 授業内容が多岐に渡るため，これらのトピックに合うものを適宜購入されたい

Contents⟩ http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=215983

Student⟩ 開講コース学生のみ受講可

Contact⟩
⟹ Wednesday 10:00-11:00

Note⟩
◇ 2 hours of both preparation and review are required for 2 hours lecture.
◇ Achievement and evaluation on lecture 1–14 will be carried out with reports and examination.