Institute of Information Security:
Cybersecurity Capacity Building Leader

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Most students, over 70%, are working adults in government or industry.

By Sept. 2016, 300 Master’s & 30 Doctors graduators play an active part in the information security fields in Japan.

IISEC is a graduate school in information security: Master’s Degree (Informatics), Ph.D. (Informatics)

Integrated security education curriculum including Technology, Management and Law

Practical education for future CIO/CISO accumulating deep and professional knowledge
Integrated and Practical Education and Research at Graduate School, IISEC

Secure System Laboratories (SSL) and Projects

- Cybersecurity Information Exchange
- **Cybersecurity Threat Intelligence and Legal Systems**
- Aviation Control Systems Security
- International Standardization of Information Security
- Cybersecurity Human Resource Development
From IISEC Curriculum

Mathematical Science & Crypto
- Cryptography, Authentication and Social Systems
- Cryptographic Protocol
- Algorithms
- Basic Number Theory
- Theory of Cryptography
- Computer Algebra
- Individual Identification and Privacy Protection

Risk Management
- Information Security Management System
- System and Security Audit
- Security Management and Business Administration
- Risk Management
- Organizational Behavior and Information Security
- Security Auditing

Cybersecurity & Governance
- Law and Ethics in Information Security
- Introduction to Legal Study
- Intellectual Property System
- Legal Cases in Information Security
- Secure Society Platform
- International Standards and Guidelines

Systems Design Basics
- Internet Technology
- Programming
- Software Design
- Operating Systems
- Information Devices Technology
- Information Systems Design
- Network System Design and Operation Management
From IISEC Curriculum

**Risk Management: Economics**
- Statistical Research Methods
- Statistical Risk Management
- Economics of Risk
- Risk Control and Mass Media

**Cybersecurity & Governance**
- Cybersecurity Intelligence and Advanced Technology (NEW)

**Cybersecurity & Governance**
- Illegal Access Technique
- Secure System Architecture
- Secure Programming and Secure Operating Systems
- Ethical Hacking/Malware Analysis
- Advanced Network Security Technologies

**Hands-on Exercises**
- Network Security Technology
- Web Application Inspection and Vulnerability Countermeasure
- Digital Forensic
- Capture The Flag (CTF)
- Incident Response & CSIRT Basics
- Organization and Security Management
- Business Continuity Management
- Practical Network Security
- Windows Security

**Systems Design**
IISEC : Cybersecurity Capacity Building Leader

Education in Graduate School

Doctoral Course

Master at IISEC

enPiT-Security (SecCap)

Education for Industry and Government

“+Security” education course

“+Security” education course

People with Cybersecurity Common Knowledge

Beginner Course (MOOC)

Education for young people

Supremo

Cybersecurity Expert

Technologist and Manager with Cybersecurity Practice
enPiT-Security: SecCap Course by Academia/Industry Collaboration

Master of Graduate School (+Undergraduate and technical college)

Participating graduate university

Participating undergraduate and technical college

Collaborating companies

As of 2016/7/31
“+Security” Education for Industry and Government by IISEC

Security Legal System

Security Tech

Security Management

Industrial Specialist

Knowledge in Industry Domain

Embedded, Control, Medical, Finance, Transportation …

Practical Security Personnel in each Industry

Security Legal System

Security Tech

Knowledge in Industry Domain

Security Management

Ethics

“+Security”
Education for young people by IISEC

MOOC Massive Open Online Course

- “Super Beginner’s Course” of Information Security for general public and young students of University and College.
  2015/5/13 ~ 7/16
  ⇒Approx. 10,000 people

- “Beginner’s Course” of Information Security suitable for Company Training Course.
  2015/10/8 ~ 12/16
  ⇒Approx. 5,000 people

http://gacco.org/
Cybersecurity Threat Intelligence at IISEC

CTI Education by integrating Technology, Management and Law

CTI Research by amalgamating Cybersecurity and Governance

By Industry, Government and Academia Collaboration