

Syllabus

Advanced Information Security

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	Position	Associate Professor			Major	Computer Engineering
	Group	Cyber Security				

1. Course Description

The aim of this course is to provide students with a thorough understanding of the security issues associated with the design, provision and management of security services for modern information systems, applications, and services. This course addresses recent security issues based on the fundamental security concepts and applications with hands-on experiment. Thus, this course will provide a comprehensive introduction and study into a broad selection of contemporary information security issues, concepts and policies, including the survey of state-of-the art technology used to address security problems.

Topics of study include four main topics such as Linux System Security based on Linux Security Module, Volatile Memory Dump Cracking and Analysis, Digital Forensics with EnCase/Tools, and Internet Traffic Analysis for Malicious Activity Detection.

2. Teaching Methods

Course Goals

1. Acquire conceptual understanding of recent security issues by attending class lecture, class presentation(2times), report(H/W)
2. Develop basic skills of establishing secure system by mini-projects(7 times)
3. Improving English skill by TR/TS/Research Paper presentation

Attendance

- : Class attendance is the duty and right of the student.
- : More 5 times non-attendance means Fail.

3. Evaluation

Quiz : 10
Final Exam : 35
Presentation : 20
Team Project : 30
Attendance : 5

More detail scoring policy will be announced in class.

4. TextBooks

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5. Lecture Schedule

Week	Lecture contents	Lesson type	Remark
1	Lecture Overview		
2	Applied Cryptography : ch1		
3	Applied Cryptography : ch2		
4	Applied Cryptography : ch2, 3		
5	Team Project – Idea Presentation		
6	Paper Presentation		
7	Paper Presentation		
8	midterm		
9	Paper Presentation		
10	Paper Presentation		
11	Applied Cryptography : ch3,4		
12	Applied Cryptography : ch4		
13	Applied Cryptography : ch5		
14	Team Project – Final Presentation and Demo		
15	Team Project – Final Presentation and Demo		
16	Finalterm Exam		

6. Others

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