강 의 계 획 서(Syllabus)

[1] 기본 정보(Basic Information)

■ 강의 정보(Course Information)

교과목명 (Course Title)	전자정보 보안기술 (DIGITAL INFORMATION SECURITY TECHNOLOGY)	강의유형 (Course Type)	이론 (Theoretical course)

[2] 학습 목표/성과(Learning Objectives/Outcomes)

■ 과목 설명(Course Description)

Security engineering is an evolving discipline that unifies two important areas: software engineering and security. Software Engineering addresses the development and application of methods for systematically developing, operating, and maintaining, complex, high-quality software. Security, on the other hand, is concerned with assuring and verifying properties of a system that relate to confidentiality, integrity, and availability of data.

■ 학습 목표(Learning Objectives)

The goal of this class is to survey engineering techniques for developing secure systems. We will examine concepts, methods, and tools that can be applied within the different activities of the software development process, in order to improve the security of the resulting systems.

■ 학습 성과(Learning Outcomes)

Security Knowledge and Technical Insight on Contents, Platforms, Networks, and Terminals.
Theoretical basis for the further courses in industrial security.

[3] 강의 진행 정보(Course Methods)

■ 강의 진행 방식(Teaching and Learning Methods)

강의 진행 방식	추가 설명
오프라인 강의	

■ 수업 자료(Textbooks, Reading, and other Materials)

수업 자료	제목	저자	출판일/게재일	출판사/학회지
주교재(Main Textbook)	Security Engineering: A Guide to Building Dependable Distributed Systems	Ross J. Anderson	2008	Wiley

차시	강사명	수업주제 및 내용	제출 과제	추가 설명
		[4] 수업 일정(Course Schedule)		
1	이재우	What is Security Engineering?		
2	이재우	Protocols Team		
3	이재우	Key management and Access Control		
4	이재우	OS Access Control		
5	이재우	Cryptography		
6	이재우	Distributed Systems		
7	이재우	Usability and Psychology		
8	이재우	Economics		
9	이재우	Multilevel Security and Multilateral Security		
10	이재우	Banking and Bookkeeping		
11	이재우	Nuclear Command & Control and Security Printing & Seal		
12	이재우	Emission Security and API Attacks		
13	이재우	Electronic and Information Warfare and The Bleeding Edge Security		
14	이재우	Network Attack and Defense		

[5] 수강생 학습 안내 사항