Sungshin Women's University
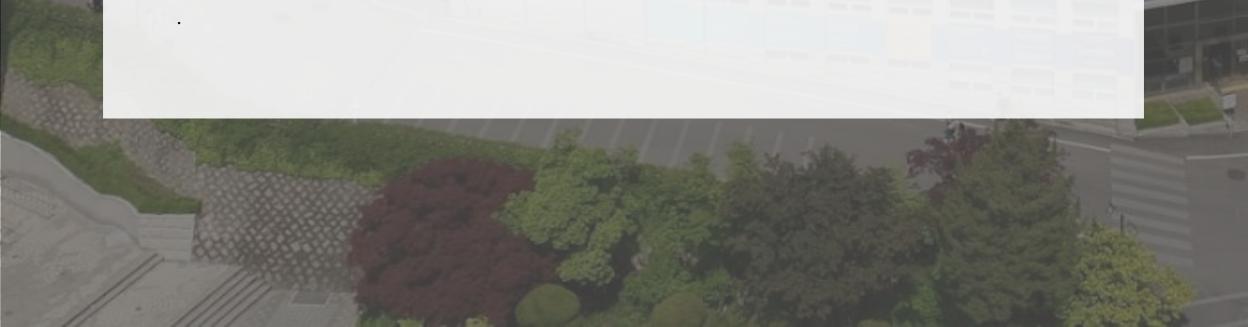## Department of Convergence Security Engineering

Introduction

 Department of Convergence Security Engineering offers a curriculum that equips students with the knowledge and skills to perform technical, physical, and managerial protection activities to safeguard assets and lives held by the nation, companies, and individuals. Through this program, we aim to cultivate converged talents capable of leading the future of convergent security, serving as the next-generation leaders in convergent security, and becoming central figures in the future convergent industries.

 In response to the growing demand for security expertise during the Fourth Industrial Revolution, we focus on fostering converged security professionals with a technical understanding of security and creative problem-solving abilities in legal and policy-related issues within industrial domains. As the importance of security continues to escalate with the development of information society, this field offers extensive career opportunities in diverse sectors such as government agencies, corporations, research institutes, and more, making it a promising area for future core growth.

Educational Objectives

Cultivating talents leading the enhancement of security capabilities in the ICT convergence industry and spearheading the convergent security sector.
.

Educational Method

• Cultivating a workforce focusing on industry demands and strengthening industry-academia collaboration through projects closely tied to real-world applications.

• Establishing specialized convergence security education programs and practical environments tailored to specific industries and application fields.

• Providing in-depth education courses to acquire specialized security technologies for convergence industries and application areas.
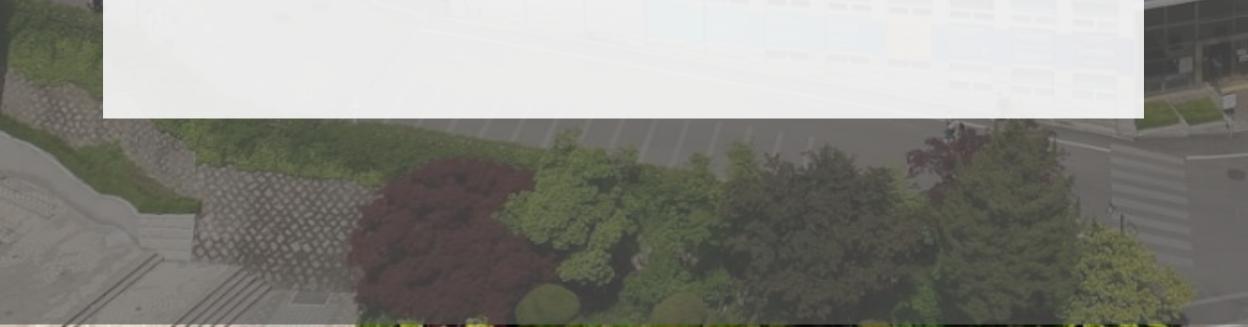
• Developing converged security professionals capable of conducting vulnerability assessments and implementing security measures in various industries and application fields.

• Training individuals capable of designing and implementing security products and technologies that meet industry-specific requirements through converged security research and development.

• Offering mentorship and guidance from industry experts with rich field experience in industries and research institutes to address problem-solving- oriented projects.

• Providing education focused on problem-solving through analysis of product and service vulnerabilities, as well as requirements analysis.

• Collaborating with graduate students on industry-academia projects.

Professors

Kim, Kyoung-Jin

Research Areas	Personal Information Protection
Subjects	Information Security, IT Security Evaluation Criteria
Office	Prime Hall 504
Tel	+82(0)2 920 7146
E-mail	kyongjin@sungshin.ac.kr

Kim, Seongmin

Research Areas	System Security, Trusted Execution Environment, Network System Security
Subjects	Operating System, System Security
Office	Prime Hall 506
Tel	+82(0)2 920 7449
E-mail	sm.kim@sungshin.ac.kr

Kim, Hakkyong

Research Areas	Law and Policy of Industrial Information (Including Serious Accidents Punishment Act), Police Science(Crisis Management), Public Safety(Complication Management, Terror, Demonstration, Physical Security)
Subjects	Law and Policy of Industrial Information, Convergence Security Crime Countermeasure Theory, Convergence Security Forensic, Theory for Convergence Security Investigation, Private Security Theory
Office	Prime Hall 503
Tel	+82(0)2 920 7940
E-mail	pocol@sungshin.ac.kr

Son, Yongha

Research Areas	Collaborative Data Analysis, Privacy Enhancing Technology, Mathematical Cryptanalysis
Subjects	Information Security, Database Security
Office	Soojung Hall B-829
Tel	+82(0)2 920 7599
E-mail	yongha.son@sungshin.ac.kr

Professors

Lee, Younghan

Research Areas	AI Security, LLM Security, Data Privacy
Subjects	Database Security, Artificial Intelligence Security
Office	Prime Hall 507
Tel	+82(0)2 920 7939
E-mail	yhlee@sungshin.ac.kr

Lee, Il-Gu

Research Areas	Information Security, Convergence Security, Software Convergence Technology,
Subjects	Communication and Networks Networks Security, Web Security
Office	Prime Hall 505
Tel	+82(0)2 920 7145
E-mail	iglee@sungshin.ac.kr

Lee, Joohee

Research Areas	Cryptography, Post-Quantum Cryptography, Privacy Protection
Subjects	Applied Cryptography, Web Security, Java Programming
Office	Soojung Hall A-911
Tel	+82(0)2 920 7598
E-mail	jooheelee@sungshin.ac.kr

Lim, Yeon-sup

Research Areas	Computer Network, Wireless Network, Cloud Computing
Subjects	Computer Network, Digital Security Seminar, Network Security
Office	Prime Hall 502
Tel	+82(0)2 920 7144
E-mail	ylim@sungshin.ac.kr

Professors

Choi, Hyunwoo

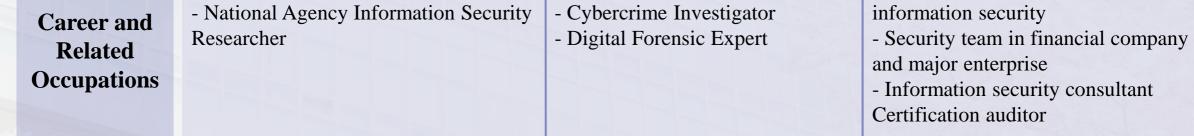|	
Research Areas	Software/Hardware Vulnerabilities and Attacks
Subjects	Hacking Practice, Secure Software Analysis and Development, Malware Analysis
Office	Soojung Hall B-834
Tel	+82(0)2 920 7447
E-mail	zemisolsol@sungshin.ac.kr

Hong, Junho

Research Areas	Information Security, Personal Information Protection, Industry Security
Subjects	Information Security System Management, Security Evaluation Methodology, Entrepreneurship Seminar
Office	Soojung Hall B-915
Tel	+82(0)2 920 7143
E-mail	hjh@sungshin.ac.kr

Curriculum

	Convergence Security Track	Digital Security Track	Information Security Track
1 Division		- Introduction to Information Technology - Python Programming - Web Programming Basics - Introductory Statistics - Introduction to Calculus and Vector Analysis	
2 Division	- Introduction to Convergence Security - Information Security Law and Policy - Privacy Information Management System	- Web Security - Operating Systems - Computer Network	- Web Security - Introduction to Convergence Security
3 Division	- Information Security - Information Security System Management - Convergence Security Forensic - Convergence Security and Business Application - Convergence Security Crime Countermeasure Theory - Cyber Security Monitoring - Security Evaluation Methodology	- System Security - Networks Security - Malware Analysis - Convergence Security Forensic - Information Security Counseling	- Information Security - Networks Security - System Security - Practice for Hacking Programming - Malware Analysis - Database Security
4 Division	- Capstone Design - Convergence Capstone Design - Computer Emergency Response	- Applied Cryptography - Convergence Capstone Design - Convergence Security Seminar	- Applied Cryptography - Digital Forensic - Capstone Design - Convergence Capstone Design - Computer Emergency Response - Artificial Intelligence Security - Entrepreneurship Seminar
Career and Related Occupations	- Information Security Manager - National Agency Information Security Researcher	- Incident Response Specialist - Cybercrime Investigator - Digital Forensic Expert	- Company specializing in information security - Security team in financial company and major enterprise - Information security consultant Certification auditor

* View All Courses: https://sugang.sungshin.ac.kr/ (Language : English)

Sungshin Women's University

Donam Sujung Campus: 2, 34 da-gil, Bomun-ro, Seongbuk-gu, Seoul (02844)

Mia Woonjung Green Campus: 55, 76 ga-gil, Dobong-ro, Gangbuk-gu, Seoul (01133)

E-mail : college3@sungshin.ac.kr