Departmental Cooperation Program

Program in
IT Policy and Management

Graduate School of Soongsil University

The purpose of the Department of IT policy and management is to greatly contribute to the development of the country and society by training the digital leadership that will lead the information age of today and the digital age of the future inheriting the great tradition of SoongsilUniversitythatrespectstruthandservice. The educational objectives of the department of IT Policy and Management explore the interdisciplinary or multidisciplinary of Service, Science, Management and Engineering (SSME) based on information technology, and is to train the excellent professional talents getting a Master and a Doctor's degree of IT policy and management. In a long-term, the graduates of the department of IT Policy and Management enable to grow and develop as CKO, CIO, CTO and CEO.

AREAS OF SPECIALIZATION

Ph. D in IT Policy and Management, MSc in IT Policy and Management

This degree provides a foundation in modern techniques of IT Policy and Management, for graduates with degrees in IT Policy and Management: Common Subjects, Subjects of IT Management, Subjects of IT Policy, Subjects of IT Finance, Subjects of IT Business, Subjects of IT Service, Subjects of IT Laws, Subjects of IT Security, Subjects of IT Administration, Subjects of IT Defence. The central feature of the course is its blend of core IT Policy and Management concepts and principles with the modern research methods required for their application.

PROGRAM OF STUDY

Teaching is by a variety of lectures and seminars. Assessment is by written examination, assessed coursework, presentation, and a dissertation. The percentage of the final mark awarded for the continuously assessed component varies across modules. There are 8 taught modules or 12 taught modules with a master thesis or a doctoral dissertation written. A doctoral student must have some research publications before he or she propose a doctoral dissertation.

Department of IT Policy Management

CONTACT INFORMATION

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COURSES

Common Subjects

21605370	System Engineering
21605371	Software Engineering
21605373	Information Strategy Planning
50118105	Empirical Research Methodology
50118110	Unified Modeling Language
50228017	IT Management of Technology
50276198	Research & Survey Methods
50291536	IT Policy Management Seminar
50316001	Research Methodology Seminar
50325931	IT Policy Management Boot Camp
50348750	IT Policy Management Seminar Ⅱ
50365170	Seminar on academic thesis
50365172	Empirical Research Methodology Ⅱ
50374688	Seminar on Innovation of IT Policy and Management
50374692	Research & Survey Methods Ⅱ

Subjects of IT Management

21605393	Knowledge Management Systems
50227982	Decision Support Systems
21605387	Internet Business Model
21605400	IT Performance Management
50227983	Advanced Topics on Management Information Systems
50276199	e-Business Systems
50299127	Advanced Research Methodology
50325933	Dignity Management
50338503	Imagery Information System
50365174	Informatization Strategy Planning

Subjects of IT Policy

50118112	Policy of Digital Media with Broadcasting
21605378	Policy of Software
21605388	Policy of Computer Networks
21605375	IT Project Management
21605386	IT Quality Certification
50227985	Data Quality Management
50227986	Technologies for Developing Mobile Web Applications
50118125	Export Strategies of Software Packages
50276200	Big-Data Management
50277051	Methodology Based on Open Source SW
50277052	Cloud Computing
50291537	Digital Society Theory of Cases
50299126	Advanced IT Policy Seminar
50338505	Theory of ICT Policy
50365168	IT Convergence Technology

Subjects of IT Finance

50227987	Government Financial Management Systems
50227988	Strategics of Taxes
50276599	International Finance Course

Subjects of IT Business

50228018	Planning and Strategies for Research and Development
50228019	Technology Evaluation Strategies for IT
50228020	Technology Commerce Strategies for IT
50228021	Technology Business Strategies for IT
50348752	Theory of ICT foundation technique
50365166	Principle of IoT based Future innovation

Subjects of IT Service

21605390	Service Management
50227994	Service Science
50227995	Service Engineering

50227998	Export Strategies of IT Services in the Field
50369180	Information Technology Service Management Systems

Subjects of IT Laws

21605402	Laws of Procurement and Contract
50227999	Laws of Intellectual Property
21605406	Laws of Information Technology corporate
50118120	Laws of Electronic Banking
21605405	Laws of Security and Privacy
21605403	The Legal Environment of IT
50106047	Legal Information Systems
50118231	Ethical Issues in Information Society
50228000	Laws of Privacy

Subjects of IT Security

50228001	Policies of Encryption and Decryption
50118108	Policies in Network Security
50118114	Policies in Mobile Security
50228003	Policies of Security Certification
50118128	Issues in Anti-Cyber Terror
50325935	Information Security and Privacy management system
50338504	Theory of Crisis & Emergency Management
50374690	Study of Cybercrime

Subjects of IT Administration

50228005	Smart Work Government Systems
21605372	Evaluation Methodology of Electronic Government
50118123	PPBEES Techniques of Electronic Government
50228007	Government Administration Service with Smart Work
50325937	Administration Information Management

Subjects of IT Defence

50228009	Network Centric Warfare
50228011	Resource Management Systems for Defense
50228013	Military Cyber Warfare
50228016	International Technology Transfer

MEMBERS OF FACULTY

Name	Position	Degree	Major	E-mail
Lee, NamYong	Professor	Ph.D. (Mississippi State Univ.)	System Engineering	nylee@ssu.ac.kr
Shin, YongTae	Professor	Ph.D. (Univ. of Iowa)	Computer Networks	shin@ssu.ac.kr
Han, Kyeong Seok	Professor	Ph.D. (PurdueUniv.)	e-Business	kshan@ssu.ac.kr
Oh, CheolHo	Professor	Ph.D. (Univ. of IllinoisatUrbana-Champaign)	Policy Sciences	coh@ssu.ac.kr
Kim, KwangYong	Professor	Ph.D. (Georgia State Univ.)	Digital Business	gygim@ssu.ac.kr
Jun, SamHyun	Professor	Dr. Jur. (FrankfurtUniv.)	Laws	shchun@ssu.ac.kr
Choi, JeongIl	Professor	Ph.D.(Univ. of Nebraska-Lincoln)	Electronic Business	jichoi@ssu.ac.kr

Program in
Culture Contents

The primary goal of the Department of Culture Contents is to train the necessary human resources in the fields of culture and art and to incubate creative manpower to participate in the development of Digital media industry. The Department coordinates Art and culture by training students for the creative mind as well as the ability to develop digital content and software. In this regard, the Department emphasizes on the interdisciplinary training to integrate digital media, literature, art, and design. The department is guided by the two policies; the development and the practice of cultural theory and contents methodology and the creation of new digital media by learning basic media theory and methodology.

AREAS OF SPECIALIZATION

Culture Contents

Common areas

Culture and arts

Digital Media Sector

PROGRAM OF STUDY

Acquisition of core knowledge is achieved mainly through lectures and seminars, practical classes and demonstrations. More specialised and detailed knowledge is gained through preparation for coursework assignments, working on projects and theses, and through reflection and discussion in seminars. Assessment is principally through mid-term and end-of-semester written examinations and coursework assignments (mainly Culture Contents based media and art presentations) which assess deeper understanding and extended argument, as well as more specific knowledge and approaches. All graduate students must pass all required courses and qualify examinations and write and defend a master's thesis for Master degree and Ph.D thesis for Ph.D. degree. Each thesis is evaluated by more than three faculty members, at least one of whom is not an instructor in the program.

CONTACT INFORMATION

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COURSES

Common areas

50086685	Digital Media Technology
50086686	Introduction to Digital Media Language
50086687	Digital Media Marketing and Management
50086691	Media Art
50086692	Media Aesthetics
50086693	Cultural Contents and Mass media
50086694	Understanding & Approach Archtype of Contents
50086695	Cultural Contents and Media Technology
50086696	Project Practice Ⅰ
50086697	Project Practice Ⅱ
50300612	New Media Study
50300613	Studies of Content Industries
50348861	Contents Planning

Culture and arts

50086698	Readings in World Classic
50074459	Analysis of Art and Cultuer Theory in East and West
50086699	Narrative in Tales of East and West
50086700	Hermeneutic of Korean Tales
50086701	Korean Literature in Contemporary Culture
50086702	Bilbical Literature and Popular Art
50086703	Current Conversion of Korean Classic
50086704	Digital Conversion of Korean Modern Works

Program in Culture Contents

50086705	Analysis of Cultural Contents in Traditional Korea
50086706	Stuies on Visual Art
50086707	Storytelling
50086708	Writing in Multimedia
50086709	Performance Theories
50086710	Performance Practices
50086711	Studies on Documentary Media
50348417	The Theory of Culture Storytelling Analysis

Digital Media Sector

50086712	Digital Contents Developing
50086713	Digital Music and Sound
50086714	Digital Media Retrieval and Security
50086715	Digital Broadcasting
50086716	Digital Game
50086717	Mobile Media Contents
50086718	3D Animation
50086719	Media Production
50086720	Interactive Media
50086721	Introduction to Virtual Reality
50086722	3D modeling
50086723	Real-time Rendering
50086724	Spatial Design
50086725	Idea and Expression
50086726	Visualization of Information
50086727	Introduction to Computer Graphics
50086728	Digital Media Design
50086729	HCI(Human and Computer Interaction)
50086730	Interactive Story Telling
50086731	Digital Media Special Effects
50269180	Global Media Policy
50276597	Algorithmic Design
50315784	Art and Artificial Life
50325792	Digital media and cultural art
50325794	Gamification and Storytelling
50300627	Media Robotics
50364445	Cultural Contents Seminar
50364447	Service UX Design
50373396	Theory of Cultural Contents Creation

DEPARTMENTAL REQUIREMENTS

Students can choose compulsory courses among common courses offered at the department. students can select optional courses from among 3 course lists established according to the requirements of a particular major discipline, a special subject of study.

The followings are 3 Major course categories.
1. Common areas
2. Culture and arts
3. Digital Media Sector

MEMBERS OF FACULTY

Name	Position	Degree	Major	E-mail
Choi, Hyung-Il	Professor	Ph.D. (University of Michigan)	Computer Vision	hic@ssu.ac.kr
Lim, Young-Hwan	Professor	Ph.D. (Northwestern University)	Multimedia	yhlim@ssu.ac.kr
Yoon, Joonsung	Professor	Ph.D. (New York Univ.)	Media Aesthetics, Media art	jsy@ssu.ac.kr
Kim, Dong-Ho	Professor	Ph.D. (George Washington Univ.)	Computer Graphics	cg@su.ac.kr
Sung, Jung-Hwan	Associate Professor	Ph.D. (Chungang Univ.)	Interaction Design, Media art, Contents planning	artbysung@ssu.ac.kr
Kim, In-Seob	Professor	Litt.D. (Soongsil Univ.)	Peotry Literature	kiseob@ssu.ac.kr
Cho, Kyu-Ick	Professor	Ph.D. (Yonsei University)	Korean Classical Literature	kicho@ssu.ac.kr
Lee, Jae-Hong	Assistance Professor	Litt.D.(Soongsil Univ.)	Storytelling	munsarang@ssu.ac.kr

Program in
Korean Studies

Soongsil University, Korea's first modern university, prides itself as an academic institution that strives to maintain Korea's cultural traditions. In order to maintain its leading role of upholding traditional Korean culture and scholarly pursuits, the Graduate School of Soongsil University has opened its own Korean Studies Program. This program offers courses in Korean history, philosophy, language, and culture with the hope of fostering a better understanding of Korea and its people both at home and abroad.

The Korean Studies Program is intended for Korean and international students alike. The multinational make-up of the student body naturally encourages and facilitates the scholarly and cultural exchange of ideas between a host of nations.

AREAS OF SPECIALIZATION

A comprehensive study about Korea and the knowledge one can attain from such a study. Humanities and Social science research fields are also integrated in studies on Korean Society and culture. In addition, to promote mutual understanding and to exchange aims, the international community is also considered.

PROGRAM OF STUDY

The program is guided by enthusiastic and competent faculty members drawn from diverse fields who work closely with students both as advisors and mentors. Graduates of the Korean Studies Program go on to pursue doctoral degrees, conduct research with faculty members or find fulfilling careers working as professionals with international exchange programs/institutions related to Korea.

CONTACT INFORMATION

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COURSES

Common Courses

50236347	Introduction to Studies of Korean Language
50236359	Studies in the History of Korean Literature
50236367	Studies in the History of Korean Philosophy
50236384	Studies in the History of Korean Historiography
50273027	Introduction to Korean Studies

Korean Linguistics and Literature

50236348	Introduction to the Studies of Korean Literature
50236949	Studies in Contemporary Korean Language
50236350	Studies in Middle Korean Language
50236351	Studies in Modern Korean Language
50236352	Studies in Old Korean Language
50236354	Studies in Korean Language Teaching Method
50236355	Studies in Korean Grammar Teaching Method
50236357	Studies in Sino-Korean Literature
50236358	Studies in Eastern Asian Literature
50236360	Studies in Korean Oral Literature
50236361	Studies in Korean Poetry
50236362	Seminar in Korean-Chinese Comparative Literature
50236363	Seminar in Korean-Japanese Comparative Literature
50271265	Seminar in Korean Lnaguage and Culture
50271267	Comparative linguistics

Korean Philosophy

50236368	Studies in Korean Buddhist Philosophy
50236369	Korean New Confucianism
50236370	Philosophy of Ancient Korean
50236371	Philosophy of Toegye and Yulgok
50236372	Seminar in Korean Practical Learning
50236373	Confucianism & Christianism in Korea
50236374	The Methodology of Eastern Philosophy
50236375	Seminar in Civil Movement of Contemporary Korea
50236376	Seminar in Korean Aesthetics
50236377	Comparative Studies in Eastern and Western Ethical Theories
50236378	Seminar in Contemporary Korean Thoughts

Korean History and Society

50236379	Studies in Korean Archaeology
50236380	Studies in Ancient History of Korea
50236381	Koryo Dynasty Studies
50236382	Chosun Dynasty Studies
50236383	Studies in Modern History of Korea
50236364	Studies in Contemporary History of Korea
50236365	Studies in the History of Korean Fine Arts
50236366	Studies in the History of National Independence Movement
50236385	Studies in the History of Korean's Struggles Against Foreign Country

MEMBERS OF FACULTY

Name	Position	Degree	Major	E-mail
Kwak, Shin-Hwan	Professor	Ph.D.(Seonggyungwan University)	Eastern philosophy, Korean philosophy	shkwak@ssu.ac.kr
Kwon, Young-Kuk	Professor	Ph.D.(Seoul national University)	korean medieval history	ykkwon@ssu.ac.kr
Cho, Kyu-Ik	Professor	Ph.D.(Yonsei University)	the classical poetry of Old Korea	kicho@ssu.ac.kr
Jang, Kyung-Nam	Professor	Ph.D.(Soongsil University)	the classical prose of Old Korea	knjang@ssu.ac.kr
Oh, Choong-Yeon	Professor	Ph.D.(Soongsil University)	Korean Grammar Teaching Method	astre@ssu.ac.kr
Kim, Seon-Wook	Professor	Ph.D.(SUNY University at Buffalo)	ethics, political philosophy	swk@ssu.ac.kr
Hwang, Min-Ho	Associate Professor	Ph.D.(Soongsil University)	Modern History of Korea, Contemporary History of Korea	w424322@ssu.ac.kr
Lim, Che-hoon	Associate Professor	Ph.D.(Kyung Hee University)	korean semantics, korean education	linguist@ssu.ac.kr
Lee, Kyung-Jae	Associate Professor	Ph.D.(Seoul national University)	Korean Modern Literature	ssamrt1@ssu.ac.kr
So, Shinae	Assistant Professor	Ph.D.(Sogang University)	Korean Language	hetaira@hanmail.net

Department of
Information Communication, Materials, and Chemistry Convergence Technology

Nowadays is the era of information revolution and is the era in which people, computers and things are united in many fields, centering on IT industry.
The Department of Information Communication, Materials, and Chemistry Convergence Technology aims for educating talented professionals in these fields, where the convergence of information technology, media contents, materials, chemistry and sports takes place.

AREAS OF SPECIALIZATION

Information Communication / Media Contents / Materials
→ Master of Engineering
   Doctor of Philosophy in Engineering
• Chemistry
→ Master of Science
   Doctor of Philosophy in Science
• Sports Information Technology
→ Master of Sports Information Technology
   Doctor of Philosophy in Sports Information Technology

The graduate program in the Department of Information Communication, Materials, and Chemistry Convergence Technology provides degrees in Engineering, Science and Sports Information Technology, from Master's degrees to Doctor of Philosophy. Prospected students can have any undergraduate major, but backgrounds in IT, Media Contents, Materials, Chemistry or Sports are expected. The students will be trained so that they can act as professionals in the emerging job market.

PROGRAM OF STUDY

Teaching in this field of convergence will be carried out by professors from various departments. Professors in the department of Electronic Engineering, Information Communication Engineering, Media Contents, Materials, Chemistry and Sports of All Studies will cooperate to educate the graduate students. The students will also have chances to participate in the research projects supported by the government or industry, so that they can build up their professional careers.

CONTACT INFORMATION

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COURSES

Sports Information Technology Convergence

50235639	Introduction to Sports IT Convergence
50235640	Measurement and Evaluation in P. E
50235641	Sports Social-psychology
50235642	Sports Management
50235643	Sports Law
50235644	Exercise Test and Prescription
50235646	Sports Infrastructure Management
50235647	Sports Data Analysis
50235648	Sports Biomechanics
50235656	Human Dynamics
50258824	Sport-IT Seminar
50300776	Exercise Physiology
50315539	Theory and Practice of Dynamics
50338511	Sports Machine Learning
50325616	Cell Signalling
50338512	Sports Data Collection and Analysis
50338513	Sports Application Programming
50348419	Sports Motion Recognition
50366170	Understanding Sport IT Companies
50374684	Understanding Sport IT Companies 2

Media Contents

50235645	Sports Media
50235653	Digital Sports Broadcasting
50235654	Introduction to Computer Systems
50235655	Sports Data Management
50235657	Sports Information Security
50235658	Sports Statistics
50235659	Sports Data Mining
50235660	SNS Sports Service
50235661	Sports Content Technology
50235662	Sensual Sports Game Development
50315535	Sports and Smart Convergence
50325614	Virtual Reality and Sports Applications
50348421	Virtual Reality and Augmented reality Projects
50348423	Introduction to Augmented Reality
50348425	Smart application development
50374638	Computer Graphics for Sports-IT
50374641	Sportainment Indoor-space Design

Information Technology

50235649	Bio-signal Recording and Analysis
50235650	Image based Measurement Techniques
50235651	Sports Sensor Engineering
50235652	Sports Robot Technology
50258822	Design and Application of Sensor in Sports
50325620	Propagation Theory
50325622	Mobile Communication System
50338514	Wireless Power Transfer Engineering
50338515	Special Topics in Wireless Communications
50338516	Special Topics in Microwave Technology
50348552	Satellite Communication Systems

Graduate School of Soongsil University

Meterials

50366172	Design of Wearable Sensor and Applications
50366174	Hybrid Materials for Wearable Devices
50368791	Smart Supramolecular Materials
50374649	Fiber Formation
50374646	Synthesis of Organic Materials

Chemistry

50325618	Advanced Analytical Chemistry
50338517	Syntheses of Organic and Inorganic Materials
50338518	Nanostructures
50338519	Electrochemistry
50348554	Advanced Physical Chemistry 1
50348556	Coordination Compounds and Their Sensing Properties
50348558	Biophysical Chemistry
50366276	Intracellular Ion Detection
50366279	Chemical Doping Analysis
50374676	DNA Recombinant Technology
50374678	Electrochemistry—Based Wearable Sensor

MEMBERS OF FACULTY

Name	Position	Degree	Major	E-mail
Ko, Ilju	Professor	Ph.D. (Soongsil Univ.)	Emotion Recognition	andy@ssu.ac.kr
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Kim, Dongho	Professor	Ph.D. (George Washington Univ.)	Computer Graphics	cg@su.ac.kr
Kim, Younghan	Professor	Ph.D. (KAIST)	Computer Network	younghak@ssu.ac.kr
Kim, Jaheon	Professor	Ph.D. (POSTECH)	Inorganic Chemistry	jaheon@ssu.ac.kr
Paek, Kyungsoo	Professor	Ph.D. (UCLA)	Organic Chemistry	kpaek@ssu.ac.kr
Seo, Chulhun	Professor	Ph.D. (Seoul National University)	Wireless Communication and Energy Transfer	chulhun@.ssu.ac.kr
Shin, Kuan Soo	Professor	Ph.D. (Univ. of Texas at Austin)	Physical Chemistry	kshin@ssu.ac.kr
Yoo, Myungsik	Professor	Ph.D. (State Univ. of New York)	Computer Network	myoo@ssu.ac.kr
Yoon, Hyungki	Professor	Ph.D. (Kyung-hee Univ.)	Measurement and Evaluation in Physical Education, Statistics in Physical Education	ssu0378@ssu.ac.kr
Lee, Jaejin	Professor	Ph.D. (Georgia Institute of Technology)	Telecommunication, Signal and Information Processing for Data Storage	zlee@ssu.ac.kr
Jeong, Youngjin	Professor	Ph.D. (Seoul National University)	Nano Carbon Materials	yjeong@ssu.ac.kr
Joo, Sang-Woo	Professor	Ph.D. (Univ. of Chicago)	Materials, Sensors	sjoo@ssu.ac.kr
Choi, Hyung-Min	Professor	Ph.D. (University of Maryland at College Park.)	Modification and Analyses of Organic Materials, Natural Fibrous Materials	hchoi@ssu.ac.kr
Han, Youngjoon	Professor	Ph.D. (Soongsil Univ.)	Robot Vision	young@ssu.ac.kr
Ko, Ilju	Professor	Ph.D. (Soongsil Univ.)	Emotion Recognition	andy@ssu.ac.kr

Name	Position	Degree	Major	E-mail
Shin, Oh-Soon	Associate Professor	Ph.D. (Seoul National University)	Wireless Communications	osshin@ssu.ac.kr
Yang, Jin Kuk	Associate Professor	Ph.D. (Seoul National University)	Biochemistry	jinkukyang@ssu.ac.kr
Lee, Hojin	Associate Professor	Ph.D. (University of Michigan)	Low Power Thin-film Transistors and Circuits for AMOLED and MEMS Displays	hojinl@ssu.ac.kr
Park, Minho	Assistant Professor	Ph.D. (Seoul National University)	Network and Security	mhp@ssu.ac.kr
Shin, Ik-Soo	Assistant Professor	Ph.D. (Seoul National University)	Analytical Chemistry, Electrochemistry	extant@ssu.ac.kr
Chung, Jae Woo	Assistant Professor	Ph.D. (Seoul National University)	Supramolecular Chemistry, Organic Materials Structure-Property Relationship	jwchung@ssu.ac.kr

Program in
Software Convergence

The Department of Software Convergence provides a comprehensive approach to interdisciplinary study focusing on software convergence. The educational goal of this program is to develop creative and convergent individuals to be capable of holding a variety of scientific and technical positions in the area of software security. The research goal of this program is to develop the software convergence technologies for security provision based on ICT (Information and Communications Technology). The main objectives for achieving this research goal are as follows:

- 1. Research on software convergence technology
  for IoT (Internet of Things)-based security
- 2. Research on convergence software technology
  for CPS (Cyber Physical Systems)-based security
- 3. Research on big-data analysis technology
  for proactive defense against cyber threats

AREAS OF SPECIALIZATION

Software Convergence (Master of Engineering, Doctor of Philosophy in Engineering)

PROGRAM OF STUDY

Teaching in this field of convergence software security is carried out by faculty from various departments. Professors in the departments of Computer Science, Electronic Engineering, Mechanical Engineering, and Business Administration collaborate to educate the graduate students. The students will have opportunities to participate in the research projects supported by the government or industry, so that they can build up their professional careers. Especially, all students of this program will be supported by BK21PLUS (Brain Korea 21 Program for Leading Universities & Students) of Ministry of Education until 2020.

CONTACT INFORMATION

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COURSES

Fundamental of Department

50321734	Introduction to Information Security
50321736	Problem Solving
50321738	Technical Management
50321740	Introduction to Big-data Convergence
50321742	Introduction to Embedded System
50321744	Topics in Programming
50321746	Start-up and IP
50299065	Strategy for Convergence Patent
50374077	Software Project Management
50374083	Sports and Information Technology Convergence

Fundamental of Security

50321748	System Security
50321750	Network Security
50315010	Cryptography
50322102	Embedded System Design
50322104	Convergence Security
50291442	Safety and Security Project
50299063	Safety and Security Project II

IoT-based Software Security

50322106	Topics in Mobile Security
50322108	Malware Analysis

Program in Software Convergence

50322110	Advanced Mobile Systems
50291440	Advanced Computer Architecture
50299062	Advanced Operating Systems
50322112	Advanced Network Security
50322114	IoT Convergence Project

CPS-based Software Security

50322116	Topics in Cyber-Physical Systems
50315024	Real-time Operating Systems
50322118	Topics in Image Processing
50322120	Topics in Computer Vision
50322122	Pattern Recognition
50299122	Topics in Contents Security
50315054	Image Security
50322125	Artificial Intelligence
50322127	System Modeling
50291441	Control of Electromagnetic Actuator
50315015	Mechatronics
50322129	CPS Convergence Project
50374075	Topics in Pattern Recognition

Big-data Software Security

50322131	Advanced Algorithms
50291443	Massive Database Management
50322133	Cloud System
50322135	Information Retrieval and Text Mining
50322137	Machine Learning
50299064	Financial Big-data Analysis
50322139	Social Big-data Analysis
50322141	Big-data Convergence Project
50374091	Big-data Processing

MEMBERS OF FACULTY

Name	Position	Degree	Major	E-mail
Kim, Gyeyoung	Professor	Ph.D. (Soongsil Univ.)	Robot vision, pattern recognition, augmented reality	gykim11@ssu.ac.kr
Lee, SooWon	Professor	Ph.D. (Univ. of Southern California)	Artificial Intelligence Mechanical Learning, Data Mining	swlee@ssu.ac.kr
Shin, Yongtae	Professor	Ph.D. (Univ. of Iowa)	Computer Network, Contents Security	shin@ssu.ac.kr
Kim, Myungho	Professor	Ph.D.(POSTECH)	System Software, Information Security	kmh@ssu.ac.kr
Jung, Souhwan	Professor	Ph.D. (Univ. of Washington)	Network Security	souhwanj@ssu.ac.kr
Han, Youngjoon	Professor	Ph.D. (Soongsil Univ.)	Robot Vision	young@ssu.ac.kr
Lee, Sangjun	Professor	Ph.D.(Seoul National Univ.)	Database, Cloud System	sangjun@ssu.ac.kr
Ahn, Hyeong-Joon	Associate Professor	Ph.D.(Seoul National Univ.)	Mechatronics	ahj123@ssu.ac.kr
Shin, Hyunchool	Associate Professor	Ph.D. (POSTECH)	Neural Engineering and Neural Signal Processing	shinhc@ssu.ac.kr
Yi, Jeong Hyun	Associate Professor	Ph.D.(Univ. of California, Irvine)	Mobile Security System Security	jhyi@ssu.ac.kr
Kim, Kanghee	Associate Professor	Ph.D. (Seoul National Univ.)	Real-Time Embedded Systems	khkim@ssu.ac.kr
Noh, Dong-Kun	Associate Professor	Ph.D. (Seoul National Univ.)	Distributed Embedded Systems	dnoh@ssu.ac.kr
Kim, Soo-hyun	Assistant Professor	Ph.D. (Georgia Institute of Technology)	Financial Engineering & Statistics	soo_hyun.kim@ssu.ac.kr

Program in
IT Logistics & Distribution

The department of IT Logistics and Distribution was established to educate and produce creative and novel outstanding individuals by converging logistics and distribution areas including omni channel and O2O with IT areas including mobile, IoT, cloud computing, and visualization. Since logistics and distribution based on IT are expected to play a pivotal role in creative economy by producing novel added value, the necessity of development of human resources having the fused knowledge of logistics and distribution with IT has been urgently increased.

The department set a goal for producing creative and fused professionals, who have the theoretical and practical knowledge about logistics, distribution, and IT resulting in the improvement of global competitive advantages of logistics and distribution industry.

AREAS OF SPECIALIZATION

Our program offers students intensive education about their specialized majors by a curriculum operation of professors of logistics, distribution, and IT, and team teaching for the fused convergence between heterogeneous areas. In addition, our program offers a general education about the broad areas in IT logistics and distribution resulting in the development of fused human resources for IT logistics and distribution.

PROGRAM OF STUDY

Our program was built to add the higher value into logistics, distribution, and IT industries by converging the heterogeneous industries. In addition, our program was built to exploit new market in convergence technology areas as a national strategic industry in the future. Our program produces outstanding individuals, who have a global mind and adapt new distribution sites, most representatively 'omni channel.' In addition, our program produces outstanding individuals, who personally think, expect, and react about future changes.

All graduate students must pass all required courses and qualify examinations, and write a master's thesis for Master degree and a Ph.D thesis for Ph.D. degree. Each thesis is evaluated by more than three faculty members. And a doctoral student must have more than one research publications before he or she proposes a doctoral dissertation.

CONTACT INFORMATION

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E-mail : lgj@ssu.ac.kr
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COURSES

Basic Courses

50321753	Omni Channel Business Management
50321755	Logistics and Distribution Service Innovation
50321757	Distribution Management
50321769	Logistics Management
50316462	Operation Research
50321765	Management Information Systems
50315985	IoT System
50321771	Distributed Systems
50321773	Programming Languages
50321775	IoT Database
50321777	IoT Security
50316459	IT Convergent Circuit Design
50321781	IoT Devices
50321783	Communication Systems for Logistics and Distribution
50338580	UI/UX Design
50365046	Global e-commerce
50374558	Introduction to IT Engineering
50374332	distribution,logistics & IT
50374336	Introduction to Artificial Intelligence & Machine Learning
50374338	Understanding and Application of Virtual Reality System

Program in IT Logistics & Distribution

Intensive Courses

50321785	IT Distribution Innovation Management Seminar
50321787	IT Logistics Technology and Innovation
50321789	Logistics and Distribution Convergence
50321791	Mobile Logistics and Distribution
50321793	Logistics Network Design
50321794	Fintech
50321797	IT Convegent System Design
50321800	IoT Device CAD
50321852	IoT Network
50321854	Cloud Systems
50321856	Location Based Systems
50321858	Augmented reality
50324277	Big Data Processing
50324279	Big Data Analysis
50365044	Univariate Analysis
50374564	Global e-Commerce & O2O

Convergence Courses

50316464	Omni Channel Strategy
50321864	Omni Channel Start-up Items Excavation
50321866	IoT Commercialization Strategy
50321860	Big Data Management & Applications
50321862	Big Data Visualization
50316455	Data Mining

Industrial Cooperation Courses

50321779	Omni Channel Service Development
50321870	Omni Channel Startup Development
50321868	Omni Channel Business Model
50321872	Omni Channel Internship

MEMBERS OF FACULTY

Name	Position	Degree	Major	E-mail
Hyun, Byung-En	Professor	Ph.D.(Kobe Univ.)	Logistics & Distribution IT Logistics	behyun@ssu.ac.kr
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Back,Insoo	Adjunct Professor	Ph.D.(Waseda Univ.)	Omni Channel Distribution Policy	insoobaek@naver.com
Yoon Eui-Sik	Adjunct Professor	Ph.D.(Myungji Univ.)	Logistics, IT Logistics	biyes@korea.com

Program in
Business Continuity Management

A vision of Department of Business Continuity Administration(DBCA, BCMS) is nurturing leaders in the field of Business Continuity Management who are needed by the society and are able to deal with upcoming challenges of the 21st century with vision. To achieve such vision, we, Department of Business Continuity Administration, have some goals of leading the study in the field of Business Continuity Management and contributing to social resilience.

To achieve the goals mentioned above, DBCA is based on two core strategies, one of which is "specialized competence strengthening education"and the other is developing client-centered practical science for field application. So we arrange details, research manpower, infrastructure etc. By doing so, we seek to educate competent people who will design and spread BCMS and will im prove the societal security by enhancing organizational resilience.

For the masters degree course, curriculum is set to focus on theoretical education and practice to be in sync with. For the doctorate course, we concentrate on case studies. The final purpose of this education is to produce key persons with global competitiveness.

AREAS OF SPECIALIZATION

• Business Continuity Management

PROGRAM OF STUDY

• Master of Business Administration
• Doctor of Philosophy Business Administration

CONTACT INFORMATION

Department of Business Continuity Management
TEL : 82-2-820-7362
FAX : 82-2-820-7363
E-mail : bcms@ssu.ac.kr
Website : http://www.ssu.ac.kr/web/bcm

COURSES

Business Continuity Management

50318251	Understanding of disaster mitigation activity
50318252	Disaster Prevention Management
50318253	Business Impact Analysis, Risk Assessment
50325980	Business Continuity Plan
50325982	Business Continuity Management System Project Ⅰ
50325984	Supply Chain Management
50325986	Risk Management in International Trade
50325988	BCM Audit
50325990	Brand Risk Management
50325992	Seminar for Business Continuity Management Ⅰ
50325994	Business Continuity Management System Project Ⅱ
50325996	FDI Risk Management
50325998	Seminar of Business Continuity Management Ⅱ
50326000	Research of Enterprise Risk Management
50348754	Crisis Management
50348756	Audit Process, Practice
50348758	Disaster & Safety Management Policy
50353001	Project Management
50365229	Urban Climate and Natural Disasters
50365231	Crisis Management Communication
50365233	Thesis Writing
50375377	Resilience
50375094	Business Impact Analysis, Risk Assessment
50375096	Research of Disaster Management Technology
50375098	Urban Natural Disaster
50375100	Analysis of Business Continuity Process

MEMBERS OF FACULTY

Name	Position	Degree	Major	E-mail
Kim, Moon-Kyum	Professor	Ph.D.(Univ. of Illinois at Urbana)	Investment, Finance, Venture Capital	mgkim@ssu.ac.kr
Choi, Ja-Young	Associate Professor	Ph.D.(Ohio State Univ.)	Marketing, Consumer Behavior	choi181@ssu.ac.kr
Lee, Byung-Mun	Associate Professor	Ph.D., (University of Warwick, UK)	Laws and Practice of International Commerce	bmlee@ssu.ac.kr
KU, Ki-Bo	Associate Professor	Ph.D., (University of Renmin, Ch)	Chinese Economy	jujifu@ssu.ac.kr
Choi, Moon-Soo	Professor	Ph.D.(Univ. of Kansas)	Accounting, Corporate Finance, Financial Derivatives	mschoi@ssu.ac.kr
Han, Yong-Hee	Assistant Professor	Ph.D.(Georgia Institute of Technology)	OM, SCM	amade@ssu.ac.kr
Ahn, Tae-Ho	Professor	Ph.D(Univ. of Florida)	OMIS/Project Management	ahnt@ssu.ac.kr
Cheung, Chong-Soo	Visiting Professor	Ph.D(Univ. of Choseon)	BCM	isobcm@ssu.ac.kr

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Program in
Unification and Christian Leadership

Unification and Christian leadership program, based on Christian truth and spirit of stewardship is a graduate program of the Soongsil University in collaborative work with the graduate school departments of Christian Studies, Business Administrative Studies, and College of Law. The unification of North and South Korea and its fundamental values and the ideology of unification will be taught by the Christian Theology and Biblical Studies department of the Graduate School of Christian Studies. The College of Law and the Graduate School of Administrative Studies will offer the institutional framework courses that will build upon the values and the ideology of unification. The goal of the program is to cultivate creative, Christian spirited leaders who can lead the era of unification, prepare for unification in the Korean peninsula, and evangelize and achieve social integration during the unification era. With Christian values establish a unified nation; ultimately contributing and developing a community for all mankind.

AREAS OF SPECIALIZATION

∗ Master of Arts in Unification and Christian Leadership
∗ Doctor of Philosophy in Unification and Christian Leadership

In order to cultivate Christian leaders that can create an era of unification and successfully lead an unified nation, courses for the program were created with the following objectives.
1) To commit to the mission of unifying the two nations with the Gospel
2) To study and understand the identity of the North and South Koreans in order to help them achieve social integration to the unified nation
3) To study politics, economics, administration, law and military system in order to have mutual agreement in the unified nation.
4) To compare the education, social, cultural, and social welfare policies of North and South Korea in order to overcome the heterogeneity in the unified nation
5) To study and analyze the language, art, culture, lifestyle, social views and family relationships in order to effectively spread the Gospel to the North Koreans
6) To develop and implement a educational program that will foster a spirit of democracy, peace and freedom to the North Koreans that have been indoctrinated with Juche ideology
7) To form welfare policies that can help solve food shortage, security issues and medical problems that may surface upon unification
8) To acquire professionalism in the areas of communication, international relations, and urban administration in order to assist the unified nation to be the center of trade in Asia

Program in Unification and Christian Leadership

PROGRAM OF STUDY

The courses in this area of study sets its goal on seeking faith, character and professionalism through instructor led lectures, specific research and practicum. There will be also opportunities to participate in North Korea mission domestically and visit mission fields abroad to experience and acquire knowledge for the unification in the Korean peninsula.

CONTACT INFORMATION

Department of Unification and Christian Leadership
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COURSES

Common Courses

50321818	Biblical Studies on Unification Theology 1
50321820	Studies on Political History of North Korea
50321822	Economic Study of Unified Nation
50321824	Methodology of Law
50321976	Mission Theology for Unification 1
50321978	Studies on the Pending Issues of North Korea
50321980	Institutional Foundation for Unification
50321982	History of Christianity in Korea
50321984	Studies on North Korean Refugees
50321986	Humanities Studies for Unification
50321988	Public Theology for Unification
50921990	Methodology for Christian Unification
50321992	Korean Church Mission Work for Unification
50321994	Studies on Strategical Plans for Christian Unification
50321996	Research Methodologies for Unification

50321998	Christian Education for Unification
50322000	North Korea Religion and Ideology
50322002	Strategies for Development of Urban and Special Administrative Region
50322004	Studies on Unification Theology 1
50322006	Mission Strategies for Unification 1
50322008	Educational Institutions for Unified Nation
50322010	Educational Theory for Unified Nation
50322012	Mission and Social Welfare for Unification
50322014	Christian 'Peace' Education
50322016	Workshop for Christian Leaders for Unification
50322018	Leadership
50322020	Criticism on Unification Studies
50322022	Understanding of North Korea Society and Culture
50322024	Understanding of Northeast Asian Culture
50322026	Studies on Comparison of North-South Korea Policies
50322028	Studies on Comparison of North-South Korea Political System
50322029	Peaceful Organization for Korean Peninsula
50322032	Political Theory for Unified Nation
50322034	Studies on International Relations
50322036	Studies on Foreign Policy for Unification
50322038	German Unification: Constitution and Law
50322040	Studies on Family and Inheritance Law
50322042	Studies on Property Law
50322043	Studies on Constitutional Law
50322045	North-South Korea Relations and International Law
50322048	North Korea Criminal Law
50322050	North-South Korea Economic Relations and Legal Issues
50322052	North Korea Law and Legal System
50322054	North Korea Agriculture and Food Shortage Issues
50322056	Studies on Business and Industrial Structure
50322058	Strategies for Advancement of Unified Nation
50322060	Development of Unified Government and Nation
50324166	Unification and Political Thought
50324168	Studies on the Pending Issues of Unification
50348736	Unity Paradigm: Unity Approach to Christian Global and Local Missions
50348739	Christian Leadership and Administration in Unification of Korea
50348742	The Theory and Practice of Unification Ministry
50348744	Unification and the Kingdom of God
50348746	Studies on the Kim Jong Un's leadership 1

50348528   Studies on the Kim Jong Un's leadership 2
50348530   Biblical Studies on Unification Theology 2
50348532   Mission Theology for Unification 2
50348534   Mission Strategies for Unification 2
50348536   Studies on Unification Theology 2
50374547   Conflicted Region Research 1
50374549   Conflicted Region Research 2
50374576   Conflicted Region Research 3
50374545   Unification Leadership
50374578   Pastoral ministry and unification 1
50374580   Pastoral ministry and unification 2
50374582   Pastoral ministry and unification 3

MEMBERS OF FACULTY

Name	Position	Degree	Major	E-mail
Sung Bae Kim	Professor	Ph.D.	Urban Policy	graal@ssu.ac.kr
Cheolhong Yoon	Professor	Pr. Jur.	Civil Law	yoonch@ssu.ac.kr
Jun-Seong Hwang	Professor	Dr.rer.pol	Comparative Economic Systems	jshwang@ssu.ac.kr
Hae Kwon Kim	Professor	Ph.D.	Biblical studies	haekwonkim@ssu.ac.kr
Chung Yoube Ha	Associate Professor	Ph. D.	Mission Theology for Unification	shalom2020@ssu.ac.kr
Seon-Wook Kim	Associate Professor	Ph.D.	ethics, political philosophy	swk@ssu.ac.kr
Eun Hee Cho	Assistant Professor	Ph.D.	sociology	maria1st@ssu.ac.kr

Program in
Smart Textiles

Smart Textile plays a key role in digital technology of convergent ICT smart textiles have been thrived recently. Our department has a vision to raise smart professional scientists and engineers for contributing to human prosperity in such areas with intelligence and creativity about advanced practical applications through education and innovative research.

AREAS OF SPECIALIZATION

MS (Master of Engineering)
Ph.D. (Doctor of Philosophy in Engineering)

PROGRAM OF STUDY

Program is available in a variety of lectures and seminars. Assessment is done by written examination, evaluated course works, presentation, and dissertation.

CONTACT INFORMATION

Department of Organic Materials and Fiber Engineering
TEL : 82-2-820-0620
FAX : 82-2-817-8346
E-mail : materials@ssu.ac.kr
Website : http://materials.ssu.ac.kr/

COURSES

Common Courses

50341677 Introduction to ICT
50341678 Functional clothing in ICT
50341679 Textile physics
50341680 Seminar on smart textiles
50341681 Reliability testing in smart textiles

50341682 smart materials
50341683 Research methodology
50341684 Design lab in wearables
50341685 Clothing design
50341686 Human body and clothing environment
50341687 Electronic materials
50341688 Textile testing
50341689 Fashion materials
50341690 Fashion electronics 1
50341691 Fashion electronics 2
50341692 Design thinking in fashion products
50341693 high-tech materials

MEMBERS OF FACULTY

Name	Position	Degree	Major	E-mail
Hyung-Min Choi	Professor	Ph.D.	Modification and Analyses of Organic Materials, Natural Fibrous Materials,	hchoi@ssu.ac.kr
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Young-Jin Jeong	Professor	Ph.D.	Polymer Nano Composites	yjeong@ssu.ac.kr
Young -Je Kwark	Professor	Ph.D.	Polymer Synthesis, Nanohybrid Materials	ykwark@ssu.ac.kr
Jae Woo Chung	Assistant Professor	Ph.D.	Supramolecular Chemistry, Organic Materials Structure-Property Relationship	jwchung@ssu.ac.kr
Wonil Hwang	Associate Professor	Ph.D.	Human-Computer Interaction	wonil@ssu.ac.kr
Taezoon Park	Associate Professor	Ph.D	Cognitive Ergonomics Safety Engineering	tzpark@ssu.ac.kr

Program in
Security and Public Weal Management

Program in Security and Public Weal Management is a graduate school established to educate highly qualified professionals who will manage commercial and non-profit organizations in the field of security of inter-Korean industrial exchanges and public welfare in the unified Korea era.

AREAS OF SPECIALIZATION

* Master of Business Administration
* Doctor of Philosophy in Business Administration

PROGRAM OF STUDY

1) This course examines the impact of environmental factors such as politics, economy, society, culture, technology, administration, and law on security and public interest in managing a profit and nonprofit organization that pursues security and the public interest.
2) To educate leaders of organizations that carry out case studies and research activities on the maintenance and promotion of security and public interest for efficient and effective management of the organization.

CONTACT INFORMATION

Program in Security and Public Weal Management
TEL : 82-2-828-7349
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Website : http://www.ssu.ac.kr/web/s_w

COURSES

Common Courses

50350652	Cause related marketing and CSV seminar
50350655	Security and public weal management seminar
50350657	Non-profit organization management seminar
50350659	Public welfare management seminar
50350661	Security and public weal leadership seminar
50365270	Research methodology in Security and Public weal
50365272	Human Resource Management and Policy Examples in Security and Public weal

50366061   Security and public weal management seminar Ⅱ
50375352   Corporate and Socially Responsible Management in Security and Public weal
50375354   Public agency marketing
50375356   Management Economy Seminar in Security and Public weal
50375359   North Korean Economy

MEMBERS OF FACULTY

Name	Position	Degree	Major	E-mail
Gim, Gwang-Yong	Professor	Ph.D. (Georgia State Univ.)	MIS	gygim@ssu.ac.kr
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Han, Yong-Hee	Assistant Professor	Ph.D.(Georgia Institute of Technology)	OM, SCM	amade@ssu.ac.kr
Yoo, Jae-Won	Assistant Professor	Ph.D.(Oklahoma State Univ.)	Service Marketing, Retailing, Marketing Strategy	yjw1774@ssu.ac.kr

Program in Project Management

The program in Project Management at Graduate School of Soongsil University inherits the glorious principle of Soongsil University "Truth and Service" by recognizing the need for a new education system to train excellent and world-class manpower and aims to provide innovative educational curriculum together with business field practicum in order to nurture talented and professional individuals who can lead management innovation required in many different industries nowadays.

AREAS OF SPECIALIZATION

∗ Master of Business Administration
∗ Doctor of Business Administration
 • Project Management

PROGRAM OF STUDY

Teaching is by a variety of lectures, seminars, and term projects. Assessment is by written examination, assessed coursework, presentation, term projects, and a dissertation.

CONTACT INFORMATION

Department of Project Management
TEL : 82-2-820-0833
FAX : 82-2-824-4384

COURSES

Common Courses

50074857	Advanced Project Management
50060167	Comprehension in Business Administration
21605412	Supply Chain Management
50074860	Process control
50060173	Research Methodology
50074863	Advanced Research Methodology
21605411	Statistics
21605413	Project Management Case Study I
50059146	Project Management Case Study Ⅱ
50087201	Project Management Seminar
50227228	Project Feasibility Study

50227230	Project Total Quality Management
50227231	Project Scheduling
50227232	Project Cost Management
50227233	Project Risk Management
50227234	Project Procurement
50227235	Case Study of Global Marketing
50227236	Global Human Resource Management
50227237	Management Information System
50227238	Data Analysis
50227239	Managerial Finance
50227240	Business Analysis
50227241	Decision Making Science
50227242	Process Innovation
50321913	Contents Management

MEMBERS OF FACULTY

Name	Position	Degree	Major	E-mail
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