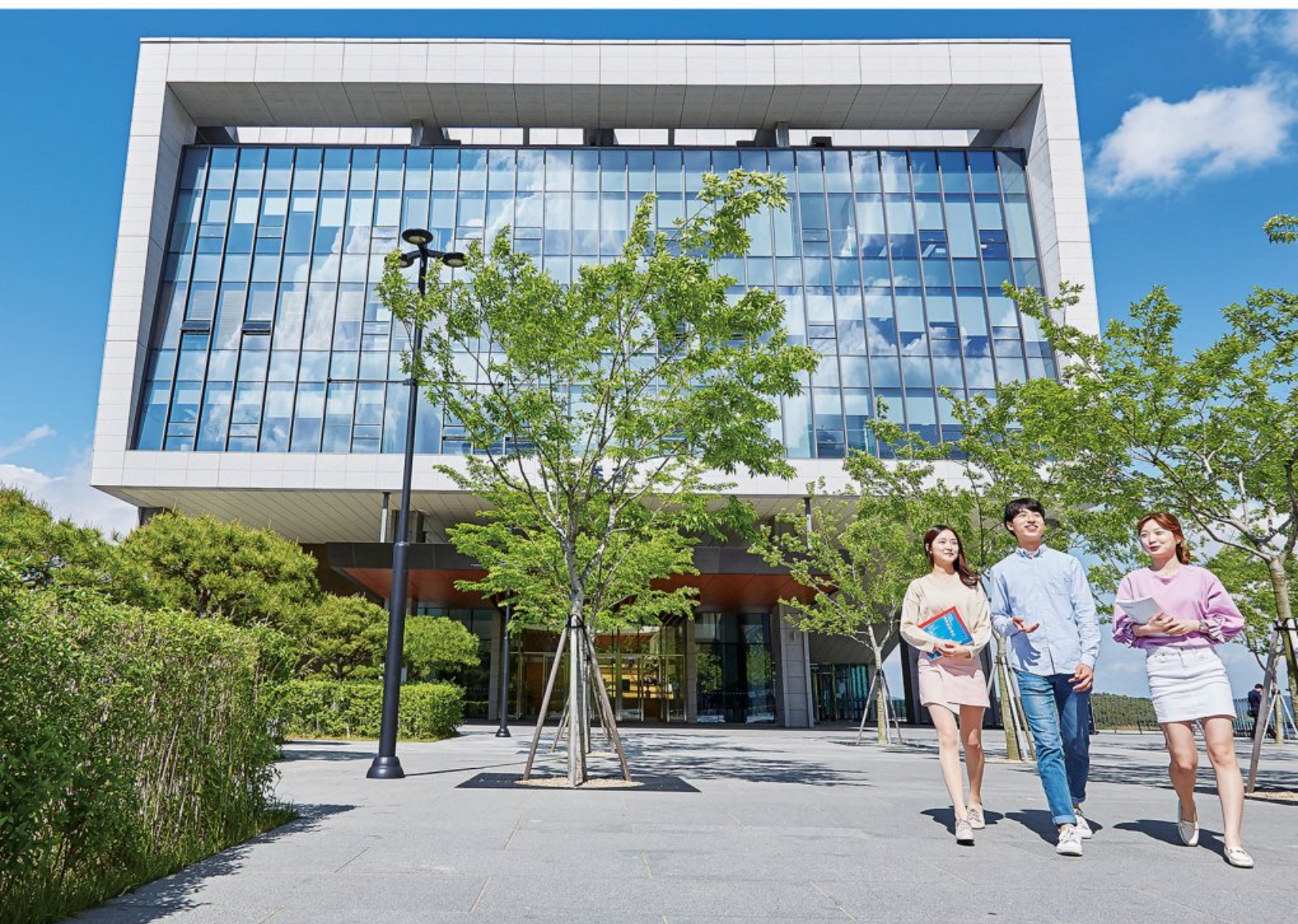# GLOBAL CIVIL, ENVIRONMENTAL, MOBILITY ENGINEERING MAJOR

— ACADEMIC PLANNING AND FACULTY —

UNDERGRADUATE - ENGLISH TRACK
COLLEGE OF SMART SYSTEMS ENGINEERING
CAMPUS LOCATION : YONGIN, KOREA

OFFICE OF INTERNATIONAL AFFAIRS
MYONGJI UNIVERSITY

TABLE OF CONTENTS

NATURAL SCIENCE CAMPUS
AN ECO-FRIENDLY CAMPUS WHERE HIGH TECHNOLOGY CREATES AN ACTIVE LEARNING ENVIRONMENT

WHO WE ARE

"GLOBAL ENGINEERS LEADING INDUSTRIAL AND TECHNOLOGICAL ADVANCEMENTS IN SMART INFRASTRUCTURE AND SMART CITIES"

Our program encompasses three major disciplines: Civil Engineering, Environmental Engineering, and Transportation Engineering. This interdisciplinary approach ensures that our educational offerings meet the modern demands of smart cities and smart infrastructure. The program integrates various elements essential for developing futuristic smart cities, including smart construction, digitalization of infrastructure, 3D spatial information systems, carbon neutrality, smart water management, renewable energy, autonomous driving, mobility services, and smart logistics.
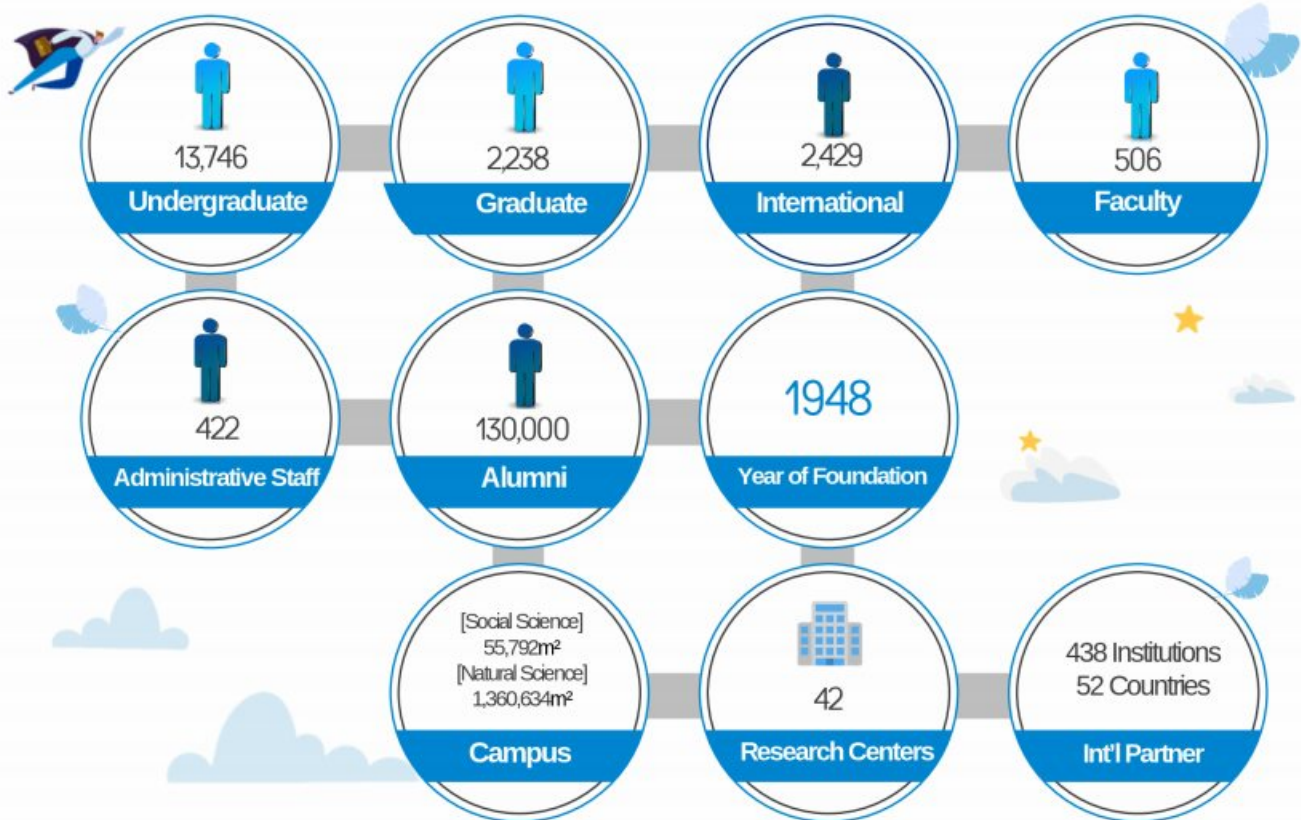
Our objective is to cultivate professionals who are pivotal in the construction and maintenance of infrastructure, environmental management, transportation, and logistics. These fields are crucial for building and sustaining safe, convenient, and pleasant cities. Our program focuses on nurturing engineers with a balanced and holistic approach, both academically and practically. We aim to foster well-rounded individuals who possess specialized knowledge in their respective fields and can apply creative thinking and interdisciplinary approaches to solve urban societal problems while fulfilling their social responsibilities.

In addition to the core disciplines within the department, we offer courses that incorporate cutting-edge, data-driven technologies such as AI and digital twins, fostering the development of multidisciplinary talents.

- Students will develop a strong foundation in the principles and practices of civil, environmental, and transportation engineering.
- The program also aims to develop global leaders capable of integrating new technologies such as IoT, AI, and big data to support the development of smart cities.
- By bridging civil, environmental, and transportation engineering, the program fosters a holistic perspective, enabling students to design and implement solutions that consider both technical and societal impacts.
- Graduates of this program will be well-prepared for diverse career paths in government agencies and industries focused on infrastructure development and management, environmental sustainability, and transportation planning and management, among others.
- This program is ideal for students who are passionate about building and maintaining well-balanced, well-planned urban systems—encompassing infrastructure, environmental, and transportation systems—to support a high quality of human life.

MYONGJI AT A GLANCE

13,746
Undergraduate

2,238
Graduate

2,429
International

506
Faculty

422
Administrative Staff

130,000
Alumni

1948
Year of Foundation

[Social Science]
55,792m²
[Natural Science]
1,360,634m²
Campus

42
Research Centers

438 Institutions
52 Countries
Int'l Partner

*As of 2023.10.01.

DEPARTMENT	FACULTY NUMBERS	RESEARCH PROJECTS	RESEARCH GRANT (USD)	EMPLOYMENT RATE (Feb. 2021~2022)
CIVIL ENGINEERING	10	22	1.87 Million	58.8
ENVIRONMENTAL ENGINEERING	9	12	740,000	63.8
MOBILITY ENGINEERING	6	24	1.45 Million	83.3

Myongji University to merge with Myongji College in 2025
➤ **6th in size in Seoul Metropolitan**

MYONGJI AT A GLANCE

Support from the Korean Government

Ministry of Education

- 500,000 USD/yr from '24 to '25
- Project for nurturing talent (B.A. in chemical engineering) in the field of hydrogen industry

Ministry of Trade, Industry and Energy

KSIA 한국반도체산업협회

- 460,000 USD/yr from '24 to '29
- Project for nurturing professionals (Master's and Ph.D. in semiconductor engineering) in the field of semiconductor engineering

Leading & Growing University in Research & Innovation

Sports:
Platinum Award by FISU
(Int'l Univ Sports Federation)

Alternative Education Space:
Metaverse Studio

Merging with Myongji College(2025):
6th largest in Seoul, with 3,800 freshmen intake

International Education Quality Assurance System

Designated by the Korean Ministry of Education as an institution accredited to receive and manage international students for its excellence in teaching and administration since 2014.

Accreditation

KAAB 한국건축학교육인증원
Korea Architectural Accrediting Board

- 2007: 1st in Korea for the accreditation of 5-year BA architecture program by International Union of Architects(UIA)

- 2007: First in Korea for the accreditation by Korea Architectural Accrediting Board (KAAB)

- 2017: KAAB Accreditation for Traditional Korean Architecture Major

Accreditation

한국경영교육인증원
Korean Association of Business Education Accreditation

- 2009: Korean Association of Business Education Accreditation (KABEA)

- 2014: 5-year renewal for both undergraduate and graduate schools

- 2019: Renewal of KABEA

Accreditation

ABEeK Accreditation Board for Engineering Education of Korea

- Accreditation by Accreditation Board for Engineering Education of Korea (ABEEK)

- 2020: 3- or 6-year ABEEK Accreditation

MYONGJI AT A GLANCE

CONVENIENT LOCATION, EASILY ACCESSIBLE FROM CITY CENTER

Seoul
Social Science Campus

> School shuttles & Public buses

From major Subway stations:
Hongik University · Hapjeong · DMC ·
Jeungsan · Hongjae

Yongin
Natural Science Campus

> Public buses

From major subway stations:
Hapjeong · Yeongdeungpo · Beomgye · Seoul Nat'l Univ. of
Education · Gangbyeon · Nowon · Guri · Incheon · Songnae ·
Ansan · Geumjeong · Jeongja

1 hour by bus from Seoul

Hongik Univ	Hapjeong	DMC	Jeungsan	Hongje
7021	272	7019	7611	

Giiheung	Myongji Univ				
		5600	5700		
5000	5001-1	5001	5002	5003	5005

ACCOMODATIONS (ON-CAMPUS)

HIGH-QUALITY ACCOMMODATIONS AT AFFORDABLE PRICES

SEOUL

860 persons

Price *Exchange rate : 1USD=1.350 KRW

Double	Quadruple
About $1.100	About $800

Facilities

> Laundry
> Common Kitchen
> Study Room
> Convenience Store
> Full fire protection systems
> 24-hour security

YONGIN

2,029 persons

Price *Exchange rate : 1USD=1.350 KRW

Double	Quadruple
About $890	About $600

ACADEMIC PLANNING

TO BE ELIGIBLE FOR GRADUATION, STUDENTS MUST SUCCESSFULLY COMPLETE THE COURSES THAT
COMPRISE THE CURRICULUM, INCLUDING THE REQUIRED UNIVERSITY CORE COURSES AND ELECTIVES.
STUDENTS ARE REQUIRED TO EARN A MINIMUM OF 139 CREDITS FOR GRADUATION.

Year	Major	Electives
Freshmen	• Introduction to Smart Infrastructure Engineering • Introduction to Engineering Design	[Korean Language] • Korean Language (Level1 & 2) • Korean Language Practice (Level1 & 2) • Korean Writing [Core Electives] • Physics 1 or Chemistry 1 • Physics 2 or Chemistry 2 • Calculus 1 • Calculus 2 • Understanding of Korea Society for Foreign Students • Contemporary History of Korea for Foreign Students • Understanding International Politics
Sophomore	• Statistics • Environmental Analytical Chemistry • Structural Mechanics • Transportation Planning • Wastewater Treatment Engineering • Soil Mechanics • Fluid Mechanics • Transportation Operation	[Core Electives] • Engineering Mathematics • Understanding Human and the Bible • Fundamental Computer Application for Foreign Students OR Data Analysis and Artificial Intelligence Using Python • Modern Society and Christian Ethics • Korean Culture for Foreign Students • Globalization and Social Change • Business and management
Junior	• Water Purification Engineering • Mechanics of Materials • Traffic Safety • Building Information Modeling • Waste Treatment Engineering • Hydraulics • Foundation Engineering • Highway Engineering	[Core Electives] • Christianity and Culture • Integrative Approach to Global Diversity: Society and Culture
Senior	• Atmospheric Environmental Engineering • Water Quality Modeling & Management • Digital Photogrammetry • Smart Transportation Technology and Applications • Environmental Capstone Design • Civil Engineering Capstone Design • Transportation Capstone Design	[Core Electives] • Introduction to digital literacy • Korean History and Culture • How to Debate in the Digital Era • Introduction to Global Corporate Strategy • Economy and Business of Korea

COURSES

Introduction to Smart Infrastructure Engineering	This course aims to provide first-year students with a comprehensive overview of Smart Infrastructure Engineering. The course is structured as a series of weekly seminars, with each session dedicated to a specific topic within Smart Infrastructure Engineering. Professors from different disciplines will present on their areas of expertise, providing students with a well-rounded understanding of the field.
Statistics	This course introduces students to the principles and methods of statistics, with a focus on applications in engineering. Students will gain essential skills for data-driven decision-making. Topics include probability, descriptive statistics, inferential statistics, and hypothesis testing. By the end of the course, students will be equipped to apply statistical techniques to solve real-world engineering challenges.
Mechanics of Materials	Mechanics of materials is a fundamental course crucial to a wide range of engineering fields and a highly applicable discipline in practice due to the direct connection to design. This course covers the fundamental concepts and applications of stress and strain in materials. Topics include the behavior of axially loaded members, torsional behavior of circular shafts and indeterminate members, strain energy, vertical and shear stress in beams, and the analysis of stress and strain. The course emphasizes both basic concepts and their practical applications in engineering.
Soil Mechanics	Soil Mechanics is a fundamental course in the field of Geotechnical Engineering, primarily dealing with the physical and mechanical properties of soils. The main topics covered include understanding the characteristics of various soil types, soil classification and compaction, permeability and seepage, stress distribution and consolidation, shear strength and slope stability. Through this course, students gain an understanding of the interaction between structures and soil, and acquire the main knowledge of soil mechanics necessary for safe and efficient construction practices.
Structural Mechanics	Structural mechanics is a branch of applied mechanics that evaluates the structural behavior. It simplifies real structures and the loads acting on them to idealized models and accurately analyzes the internal forces generated by these loads. This course covers methods to determine the reactions and member forces in statically determinate structures such as trusses, arches, cables, beams, and frames using Newton's laws of equilibrium. Students will learn how to draw shear force and bending moment diagrams, which are necessary for member design. The course also covers the methods for constructing and utilizing influence lines for moving loads.
Foundation Engineering	Foundation Engineering is a course that deals with the design and analysis of foundations that support structures. Based on the principles of soil mechanics, it covers the fundamentals and practical aspects of structural foundations. This course includes field investigation methods, soil testing, design and bearing capacity analysis of shallow and deep foundations, settlement analysis, retaining wall design and stability evaluation, and ground improvement techniques. Through this course, students develop the ability to design safe foundations for various structures, prevent foundation failures, and solve related problems.
Hydraulics	This course covers the principles of fluid mechanics as applied to civil engineering, focusing on the analysis and design of water flow systems. Key topics include open channel flow, hydraulic structures, flood control, and hydropower. Students will learn to design and analyze hydraulic systems and structures in rivers.
Fluid Mechanics	This course covers the principles of fluid mechanics as applied to civil engineering, focusing on the analysis and design of water flow systems. Key topics include open channel flow, hydraulic structures, flood control, and hydropower. Students will learn to design and analyze hydraulic systems and structures in rivers.

COURSES

Digital Photogrammetry	This course aims to understand basic principles of photogrammetry and laser scanning for 3D reconstruction of real world. More specifically, this course deals with photogrammetric principles, photogrammetric triangulations, direct vs. indirect orientations, image matching, laser scanning geometry, 3D point generation, and information extraction.
BIM (Building Information Modeling)	This course introduces students to Building Information Modeling (BIM), a digital representation process that facilitates the planning, design, construction, and management of building projects. This course covers the concepts, principles, and software usage of BIM through both theoretical and practical approaches. students will learn to create and manipulate 3D models of buildings as well as civil infrastructures using REVIT, and utilize DYNAMO for additional functionality. Practical assignments and case studies will provide hands-on experience in applying BIM technology to real-world scenarios.
Civil Engineering Capstone Design	The Capstone Design course is a senior-level, project-based course in the undergraduate Civil Engineering program. This course is conducted through team projects, where students collaborate to address real-world problems within various civil engineering domains. Under the guidance of faculty advisors who specialize in the respective project areas, students engage in the process of problem-solving by applying the latest technologies and research trends. Through this hands-on experience, students are prepared to transition from academic learning to professional practice in the field of civil engineering.
Environmental Analytical Chemistry	This course covers various quantitative analysis methods and the theories of instrumental analysis for the quantitative measurement and analysis of pollutants and pollution levels in water, soil, and air.
Water Purification Engineering	This course covers the treatment processes that use the principles of oxidation, adsorption, and membrane to remove dissolved pollutants that are difficult to eliminate with standard water purification processes in order to supply high-quality tap water.
Waste Treatment Engineering	This course covers the estimation of waste generation, understanding its composition and properties, and the technologies for separating, transporting, and disposing of wastes, in order to convert various types of wastes into resources and to ensure safe treatment.
Atmospheric Environmental Engineering	This course covers the atmospheric structure and motions, energy and mass balances, dispersion and transport processes of air pollutants in the atmosphere, and its impact on the global and regional clime change. Additionally, it covers monitoring techniques and data analysis of atmosphere and air pollutants.
Transportation Capstone Design	This course involves hands-on practice in planning and designing various transportation systems (such as roads, railways, and intelligent transportation systems). Students will work in teams to propose projects for practical exercises and develop various solutions for improving transportation systems.
Water Quality Modeling & Management	This course covers methods for water quality assessment, the basic principles, typical approaches and techniques of water quality modeling, and its applications for the management of water quality of rivers, canals, reservoirs, lakes, and coastal waters.

COURSES

Environmental Capstone Design	This course aims to cultivate practical skills as environmental engineering professionals by comprehensively applying all the knowledge, techniques, and methods acquired through various lectures to the design of specific products, devices, processes, or programs for solving real environmental problems.
Transportation Planning	The course covers the theoretical background and methods for investigating and analyzing the socio-economic factors of transportation planning, as well as demand forecast. It discusses key models and examines the relationship between transportation systems and land use changes. Furthermore, it delves into alternative evaluations and policies for transportation investments, encompassing various modes of transportation and transportation infrastructure.
Transportation Operation	The course covers traffic signs, signal operation, and traffic management strategies to systematically manage traffic flow. Based on this knowledge, students can adopt efficient transportation operation methods tailored to the characteristics of a given area to ensure smooth traffic flow.
Traffic Safety	The course covers the causes and characteristics of traffic accidents, understanding of traffic safety facilities, the derivation of engineering improvement solutions to reduce accidents, and also advanced cases of traffic safety and learns from their implications.
Smart Transportation Technology and Applications	The course lectures on the basic concepts of a wide range of technologies and applications in smart transportation, such as autonomous driving, mobility as a service (MaaS), drones, urban air transportation (UAM), and platform- based transportation services.
Highway Engineering	The course examines the role and meaning of roads and covers the physical characteristics and design process of the elements that make up roads. This is, lectures are given on methods and principles related to the design of the horizontal and vertical alignments of roads, the design of at-grade intersections and grade-separated intersections, and the design of road facilities.
[Elective] Contemporary History of Korea for Foreign Students	This courses is aimed at examining the key historical events that have shaped contemporary South Korea from the perspective of international students. By highlighting the characteristics of modern history, distinct from the medieval and early modern periods, the course will study the efforts to build the nation from the time of liberation, the Korean War, the establishment of democracy, economic development, and cultural advancement.
[Elective] Understanding of Korean Society for Foreign Students	This Course focuses on the coexistence of tradition and modernity in contemporary Korean society and culture, with an aim to engage International students in discussions about issues such as values, family, politics, society, economy, population, education, employment, social conflicts, and contemporary Korean popular culture as well as the Korean Wave (Hallyu). This will help international students understand the overall aspects of Korean society, including politics, economy, culture, and society.
[Elective] Understanding Human and the Bible	This course aims to provide an introductory overview of the Bible, focusing on the Christian teachings about God and humanity. The course is designed to lay a foundational understanding of Scripture via a historical survey of the Old and New Testaments.

COURSES

[Elective]
Christianity and Culture

This course will provide students with a comprehensive coverage of the analysis of various life-related opportunity to comprehensively engage a wide range of issues related to everyday life from a Christian perspective. This course is designed to serve as a valuable introduction for believers and non-believers alike as this course is designed to extend your education beyond the focused studies of your major, preparing you for your future life as a thoughtful individual and active member of the modern society.

[Elective]
Korean Culture for Foreign Students

This course explores various topics to help international students understand and adapt to Korean society by considering a wide range of issues related to Korea, including culture, geography and climate, Hangul, Hanbok, housing, economy, education, sports, holidays, Korean popular culture, and Korean cuisine.

[Elective]
Fundamental Computer Application for Foreign Students

This course is for international students who are not familiar with the Korean keyboard layout. The course introduces students to the workings of the Windows Operating System as well as Microsoft Office software such as Word, Excel, and PowerPoint so that students will be able utilize those gained knowledge as tools to improve their Korean language skills.

[Elective]
Data Analysis and Artificial Intelligence Using Python

This course teaches basics of Python and how students can use the program for tasks like data analysis, web crawling, web scrapping, deep learning, and etc. Students will also practice using prompts (tools: ChatGPT, Bard) to learn programming or coding concepts with Python. This course is for both major and non-major students.

[Elective]
Modern Society and Christian Ethics

This course "Christian Ethics in Modern Society" involves a detailed examination of the life and teachings of Jesus, a central figure in Christianity. It aims to understand the interaction between modern society and Christianity and to reflect on how these teachings can be newly applied to our lives today.

[Elective]
Introduction to digital literacy

This course introduces digital information literacy or the ability to effectively access, analyze, evaluate and create digital media. The course will teach students how to critically and effectively access, analyze, evaluate and create various digital media messages.

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EDUCATION

B.S. Seoul National University
M.S. Seoul National University
Ph.D. Georgia Institute of Technology

PUBLICATIONS

- Kim, J.-Y., M.-W Park, N. T. C. Shim, & J.-W. Park. (2023). "Detection and Length Measurement of Cracks Captured in Low Definitions Using Convolutional Neural Networks", *Sensors*, 23(8), 3990.
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- Won, J., J.-W. Park, C. Shim & M.-W. Park. (2021). "Bridge-surface panoramic-image generation for automated bridge-inspection using deepmatching", *Structural Health Monitoring*, DOI: 10.1177/1475921720930380.
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- Kang, S., S. Kim, B. Choi, M.-W. Park & W. Suh. (2019). "Development of Smart Helmet for Monitoring Construction Resources Based on Image Matching Method", *Journal of Imaging Science and Technology*, 63(3), 30403-1-30403-10.

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EDUCATION

B.S. Seoul National University
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PUBLICATIONS

- Park, J., M. Park, Y. Chae, & C.-Y. Kim. (2024). "Dynamic cyclic loading tests for investigating the influence of loading rate and axial force on the lateral response of RC columns", *Earthquake Engineering & Structural Dynamics*, 53(4), pp. 1537-1551.
- Park, J., M. Park, Y. Chae, & C.-Y. Kim. (2023). "Real-time hybrid simulation for investigating the influence of vertical ground motions on the lateral response of RC piers", *Earthquake Engineering & Structural Dynamics*, 52(10), pp. 2928-2944.
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OUR FACULTY

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EDUCATION

B.S. Seoul National University
M.S. Seoul National University
Ph.D. Virginia Tech, USA

PUBLICATIONS

- Shin, D. K. and K. Kim. (2019). "Flexural Strength of Composite HSB690 I-Girders in Negative Moment", *International Journal of Steel Structures*, 19(6), pp. 1875-1894.
- Ahn, J. T. and D. K. Shin. (2018). "Strength characteristics of ring-stiffened cylindrical steel shell under external pressure", *Journal of KSSC*, 30(1), pp.25-35.
- Ahn, J. T. and D. K. Shin. (2017). "Ultimate compressive strength of longitudinally stiffened cylindrical steel shell for wind turbine tower", *Journal of KSSC*, 29(2), pp. 123-134.

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EDUCATION

B.S. Seoul National University
M.S. Seoul National University
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PUBLICATIONS

- Lee, S.-H., B.-I. Kim, & M.-S. Lee. (2022). "An Analytical Study on Trustability of Prescribed Slope Inclination in Design Criteria", *Journal of Coastal Disaster*, 9(4), pp. 231-235.
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OUR FACULTY
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EDUCATION
B.S. Korea University
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Ph.D. The Pennsylvania State University

PUBLICATIONS

- Kwon, Y.-M., J.-H. Moon, G.-C. Cho, Y.-U. Kim. (2023). "Xanthan gum biopolymer-based soil treatment as a construction material to mitigate internal erosion of earthen embankment: A field-scale", *Construction and Building Materials*, 389, 131716.
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EDUCATION
B.S. Seoul National University
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PUBLICATIONS

- Nam, S. H., S. Kwon, & Y. D. Kim. (2024). "Development of a basin-scale total nitrogen prediction model by integrating clustering and regression methods.", *Science of The Total Environment*, 920, 170765.
- Kim, G. S., Y. Gwon, E. J. Oh, D. Kim, J. H. Kwon, & Y. D. Kim. (2023). "Classification Technique of Algae Using Hyperspectral Images of AlgaeCulture Media.", *Applied Sciences*, 13(7), 4631.
- Jung, W. S., & Y. D. Kim. (2023). "Evaluation of Watershed Water Quality Management According to Flow Conditions through Factor Analysis and Naïve Bayes Classifier", *Sustainability*, 15(13), 10038.
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EDUCATION
B.S. Korea Advanced Institute of Science and Technology
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PUBLICATIONS

- Kwon, S.-H., J.-S. Lee, K.-T. Koh, & H.-K. Kim. (2024). "Strain Softening of High-Performance Fiber-Reinforced Cementitious Composites in Uniaxial Compression", *International Journal of Concrete Structures and Materials*, 18(17).
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EDUCATION
B.S. Seoul National University
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PUBLICATIONS

- Kim, Y.-M., J.-H. Lim, & H.-D. Yoon. (2024). "Experimental Study on the Effect of Wind on Armor Stone Stability", *Journal of Marine Science and Engineering*, 12 (3), 499
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OUR FACULTY
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EDUCATION

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PUBLICATIONS

- Choi, K., & C. Kim. (2022). "A Framework of Wearable Sensor-System Development for Urban 3D Modeling", *Applied Sciences*, 12(18), 9061.
- Choi, K. H., & C. Kim. (2021). "Proposed new AV-type test-bed for accurate and reliable fish-eye lens camera self-calibration", *Sensors*, 21(8), 2776.
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