




**INHA** Technical College





*Let's dream of  
flying towards  
a better tomorrow*

Let's  
**FLY**

**INHA** Technical College



# Truth (眞)

It is the educational philosophy of INHA Technical College,  
which pursues to build genuine character above teaching students.

Based on the three major educational goals:

**'Genuine and Independent Intellectuals',**

**'Diligent and Creative Professionals',**

and **'Cultivating Competent and Voluntary Members of Society',**

we are operating our college with focus on:

Genuine humanities education for developing a solid national view and character,

Practical industrial technology education that responds to the industrial society,

Productive industrial technology education through industry-university cooperation, and

Advanced industrial technology education through modern facilities.

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Genuine Talent **INHA**

*Ethical Intellectuals  
needed in our world*



A pair of hands is shown from the wrists up, cupping a small mound of dark brown soil. A single, vibrant green seedling with two leaves is growing out of the center of the soil mound. The background is a vast, textured expanse of the same dark brown soil, creating a sense of depth and focus on the hands and the seedling.

## True Value of Education

The foundation  
for evolving the  
world, **INHA**

Competing and  
communicating according  
to the true value!  
INHA's education pursues  
constant communication  
through fair competition.  
This is the value of INHA.



# INHA's goals

to increase future possibilities



A college that leads the future in higher vocational education through creativity and innovation

## Development Strategies



### Education Competency

Improving college competitiveness through customized quality education



### Student Support

Enhancing student competency through substantive student guidance



### Lifelong Education

Improving the competitiveness of lifelong education focused on practical use



### Industry-University Cooperation

Vitalizing industry-university cooperation through creation of the ITC Go-Together brand



### Internationalization

Internationalizing student resources through vitalization of international exchange



### Operational Support

Creating an innovation space for the 4th industrial revolution paradigm and strengthening the university's operating system

## Educational Goals



### Cultivating genuine

and independent intellectuals



### Cultivating diligent

and creative professionals



### Cultivating competent

and voluntary members of society

Truth (眞), the motto of INHA Technical College, is the educational philosophy of INHA Technical College, which pursues to build genuine character above teaching students. Based on the three major educational goals: 'Genuine and independent intellectuals', 'Diligent and Creative Professionals', and 'Cultivating Competent and Voluntary Members of Society', we are operating our college. Our educational policy is to provide genuine humanities education for developing a solid national view and character; practical industrial technology education that meets industrial society; productive industrial technology education through industry-university cooperation; and advanced industrial technology education through modernized facilities.

## Desired Talent

A competent professional with intelligence and knowledge to search for the truth

Established to contribute to the development of Korea's industrial technology as a project to commemorate the 50th anniversary of Korean immigrants to Hawaii

## Educational Policy



### Genuine humanities education

for developing a solid national view and character.



**Practical industrial technology education** to respond to the industrial society.



**Productive technical education** through industry-university cooperation.



**Advanced industrial technology education** using modern facilities.



# INHA's efforts to enhance student's potentials



Ministry of Education

## Leaders in INdustry-university Cooperation 3.0(LINC3.0)

2022 - 2027

LINC3.0 is a comprehensive support project for university-industry-research cooperation that is being promoted to continuously improve the performance of the first and second phase of the LINC project and to create an industry-academia-research cooperation ecosystem in which technical colleges and industries develop together.



Ministry of Education

## Technical College Innovation Support Project

2019 - 2024

It is a project that strengthens the basic capabilities of universities and supports strategic specialization in order to respond to changes in the future society and supports the establishment of a system for training creative talents who will lead the national innovative growth through autonomous innovation of colleges.



Ministry of Land, Infrastructure and Transport

## Spatial Information Specialized College Development Project

2017 - 2023

This is a specialized college development project hosted by the Ministry of Land, Infrastructure and Transport (commissioned to the Spatial Information Industry Promotion Agency) to meet the demand for creative talent in the creative knowledge society, solve the mismatching of talents in the geospatial data industry, and build Infrastructure for insufficient human resource



Ministry of SMEs and Startups

## Makerspace Building Project

2019 - 2023

It provides a space for creative activities so that anyone can easily access and freely implement creative ideas.



Ministry of Education

## Pathways in Technical Education, oriented Convergent High-technology (P-Tech) Project

2019 - 2024

Intermediate and advanced technical training course conducted in conjunction with technical colleges for graduates of industry-university-integrated apprenticeship schools, etc.



# INHA leads the future of vocational education through creativity and innovation

President of INHA Technical College KIM SUNG CHAN

*SC Kim*

## Department of Vocational Education at the Central Vocational School affiliated with INHA University of Technology

1958. 02. 13 1<sup>st</sup> Principal Choi, Seung-man  
1961. 09. 20 2<sup>nd</sup> Principal Kim, Jang-hoon  
1963. 07. 01 3<sup>rd</sup> Principal Kim, Byung-hee

## Technical Institute affiliated with INHA University of Technology

1967. 07. 10 1<sup>st</sup> Principal Dr. Park, Cheol-jae Park  
1968. 09. 14 2<sup>nd</sup> Principal Dr. Seong Jwa-kyung

## INHA Technical Institute affiliated with INHA University of Technology

1970. 02. 16 1<sup>st</sup> Principal Dr. Seong, Jwa-kyung  
1971. 03. 18 2<sup>nd</sup> Principal Dr. Jeong, Jae-gi  
1974. 03. 01 3<sup>rd</sup> Principal Professor Hwang Byung-gu  
1976. 05. 11 4<sup>th</sup> Principal Professor Lim Dal-yeon

## INHA Technical College

1979. 03. 01 1<sup>st</sup> Dean, Professor Lim Dal-yeon  
1987. 03. 01 2<sup>nd</sup> Dean Dr. Roh Jeong-ik  
1989. 03. 01 3<sup>rd</sup> Dean, Dr. Min, Kyung-wha  
1993. 03. 01 4<sup>th</sup> Dean Dr. Jo, Sung-wook  
1999. 03. 01 5<sup>th</sup> Dean Dr. Lim, Jang-soon  
2005. 03. 01 6<sup>th</sup> Dean Dr. Kim, Sang-nam  
2007. 03. 01 7<sup>th</sup> Dean Dr. Park, Chun-bae  
2012. 04. 23 8<sup>th</sup> President Dr. Jeong, Dong-seok  
2013. 03. 01 9<sup>th</sup> President Dr. Jin, In-ju  
2022. 03. 01 10<sup>th</sup> President Dr. Seo, Tae-beom  
2023. 07. 10 11<sup>th</sup> President Dr. Kim, Sung-chan



1954

- Approved Inha Academy Foundation



1958

- Department of Vocational Education of the Joonggang Comprehensive Vocational School attached to Inha Institute of Technology Established



1970

- Reorganized and accredited as Inha Technical School attached to Inha Institute of Technology



2005

- Selected for the specialized college support project to foster a future growth engine by the Ministry of Education



1994

- Opening of B727 in-flight training room



1979

- Reorganization into Inha Technical College approved



2013

- Jeongseok Inha Academy as a school corporation approved



2014

- Selected as an excellent teaching and learning support center  
- Selected as a GKS(Global Korea Scholarship) college  
- Selected as a specialized college fostering project by the Ministry of Education



2016

- Selected for the Engineering Education Innovation Support project by the Ministry of Trade, Industry and Energy



2021

- Acquisition of institutional evaluation certification for colleges  
- Selected as a general financial support college through basic competence assessment



2020

- Selected for the preemptive response package support project for employment stability by the Ministry of Employment and Labor



2017

- Selected for the WCC(World-Class College) by Ministry of Education  
- Selected for the Spatial Information Specialization project by the Ministry of Land, Infrastructure and Transport  
- Selected for the K-MOOC(Korea Massive Open Online Course) project by the Ministry of Education  
- Selected for the LINC+(Leaders in Industry-college Cooperation) project by the Ministry of Education  
- Completion of the construction of dormitory



2022

- Selected for the Industrial Transition Joint Training Center  
- Selected for the IEQAS(International Education Quality Assurance System) by the Ministry of Education  
- Selected for the Innovation College of Korea project by the Ministry of Education  
- Selected for the LINC3.0(Leaders in Industry-university Cooperation 3.0) by the Ministry of Education



2023

- Establishment of 4 new departments  
· Department of Semiconductor Machinery Maintenance  
· Department of Digital Marketing Engineering  
· Department of Logistics System  
· Department of Sports Healthcare

With a history of  
over 60 years,  
**INHA will create value  
for the next 100 years.**



The true value  
of Students

INHA, raising  
the potentials  
of students as a  
companion.

What the students wants!  
The right that the students  
should enjoy!  
INHA has been striving to  
become a companion for  
students to realize their  
potentials.





# The value of INHA communicates with the world



## International Exchange

Signing academic exchange agreements with 16 universities and colleges in 3 countries, INHA Technical College focuses on international academic exchange activities such as joint programs and student exchange.

### Universities and Colleges certified for International Exchanges

Cooperation with 16 universities and colleges in 3 countries: China, Japan, and Indonesia

### Global Field Practice

About 30 students for one semester during a year in countries such as China, Japan, Vietnam, Indonesia, and Uzbekistan

### International Students

About 80 students are studying in the universities and colleges that signed an agreement for exchange with INHA in China, Japan, Vietnam, Mongolia, Uzbekistan, Canada, and Taiwan

## College Certified for International Student Attraction and Management

INHA Technical College was selected as a 'College Certified for International Student Attraction and Management' by the Ministry of Education after being evaluated for its excellent management of international students. In addition, INHA has been selected for the government-invited international students scholarship program to attract international students.

## GKS (Global Korea Scholarship) Program

This program seeks interactive and mutually beneficial cooperation with developing countries by focusing on software - like aid to educate talents in developing countries based on Korea's experience in human resource development and education. To that end, the Korean government provides scholarships (tuition fees, airfare, living expenses, etc.) to invited international students.

## International Education Quality Assurance System (IEQAS)

It evaluates all efforts and activities of universities and colleges related to education internationalization strategies, international exchange activities, internationalization environment and support infrastructure, and support for education and management of international students for the purpose of controlling the quality of higher education institutions and attracting excellent international students, and grants internationalization education quality certification to the universities and colleges with competence above a certain level.

### USA

- St.Cloud State University
- University of Nevada, Las Vegas
- International Mid Pac College
- California State University Northridge
- Georgia Institute of Technology
- California State University, Los Angeles

### Canada

- Centennial College
- Ashton College
- Simon Fraser University
- British Columbia Institute of Technology

### UK

- South Devon College

### France

- Rouen University of Technology

### Switzerland

- SHMS Swiss Hotel Management School

### Australia

- Monash College
- The Gordon TAFE

### New Zealand

- Otago Polytechnic

### Indonesia

- BINUS University

### Vietnam

- Vietnam-Korea Vocational Technology College
- Hanoi International College
- Hanoi University of Industry

### Malaysia

- Berjaya University College
- SEGI University College

### Mongolia

- Mongolian National University
- Huree University of Information and Communication Technology

### Kyrgyzstan

- Central Asia Korean College
- Kyrgyz Korean College
- Salymbekov University

### China

- 18 universities and colleges including,
- Nanchang Hangkong University
- Chengdu College of UEST
- Zhejiang yuying college of vocational technology
- Qingdao Tourism School
- Huaqiao university
- Liaoning normal university
- Science and Technology College of NCHU
- Daqing Experimental High School II

### Japan

- 11 universities and colleges including,
- Airline International and Resort College
- Aso Foreign Language Tourism and Patisserie College
- Kanda Institute of Foreign Language
- Japan College of Foreign Language
- Nishitetsu International Business College
- Trident College of Language and Hotel Bridal
- Osaka College of Foreign Languages
- Japan Aviation College
- Japan Aviation Academy

# The value of INHA grows together with companies



## Major Industry-University Cooperation Projects














Industry-University Cooperation Foundation consists of industry-university cooperation planning and coordination team, research performance diffusion team, field practice support center, SME- industry-academic cooperation center, bio-health care process company collaboration center, eco-friendly smart mobility company collaboration center, smart robot convergence company collaboration center, new industry convergence technology support center, and shared equipment support center, and is in charge of promoting industry-university cooperation, managing research expenses inside and outside the school, and supporting field practice.

## On-demand Education Agreement

Through agreements with leading companies in Korea, INHA is operating tailored training programs. Curriculum was developed jointly with companies, and many of the students who completed the curriculum are employed by the company.

## Jeongseok Inha School's Foundation

Jeongseok Inha School's Foundation consists of 6 educational institutions: INHA Technical College, INHA University, Korea Aerospace University, INHA University High School, INHA University Middle School, and Jeongseok Aviation Science High School. Together with the Hanjin Group, it is striving to foster human resources and develop local communities.

Aviation	Land Transportation	Tourism and Hotel	Information Service
			
			
			
			
			
			



# With the belief that a college grows *through Student's happiness*

INHA Technical College believes that teaching is not the only responsibility of the college. We believe that we need to support students by satisfying their needs so that they can become the leaders of Korea. INHA Technical College's diverse welfare facilities are an important factor in making a our college youthful and passionate.

## Scholarship Support

INHA Technical College offers various scholarship programs so that all students can concentrate on their studies.

### On-campus Scholarships

INHA operates a variety of on-campus scholarship programs that are subdivided into 27 areas, including scholarship for freshmen, scholarships for excellent grades, and welfare scholarships. Through this on-campus scholarship system, many students of INHA Technical College can receive scholarships.

### Off-campus scholarships

INHA Technical College, which has a reputation as an excellent college in industry-academic cooperation, continues to receive scholarship support from various companies[ e.g. Hanjin Group Scholarship Association, Alumni Association, Rural Hope Foundation, Sunkwang Cultural Foundation, Samsong Scholarship Association, Harim Scholarship Foundation, Asan Social Welfare Foundation, Jusim Scholarship Foundation, Saeol Cultural Foundation, Samsung Electronics Co., Ltd., Doosan Infracore Co., Ltd., Mercedes-Benz Mobile Academy, Kia Motors-Korea Social Welfare Association, VL Korea Co., Ltd., Lotte Machinery Open Innovation, Woori Bank, Kookmin Bank, Fire Department, KASA (Korean Air Stewardess Alumni) Scholarship Association, Dept. of Secretarial Studies Alumni Association, Dept. of Architecture Alumni Association]. This is a benefit that can be enjoyed by all students at INHA Technical College.

## Employment Support

With the Employment Support Team and the Startup Support Center, INHA provides fast, diverse, and customized employment-related information that reflects each student's aptitude and interests. In addition, we provide counseling on career paths after graduation so that students can establish work ethics and prepare for the future.

### Employment Support Team

- Employment counseling (career counseling, job and company search, guidance of employment club guidance of application documents and interview, etc.)
- Provision of employment information and company information, employment recommendation
- Special lectures and camps related to employment guidance
- Operation of employment support programs such as industrial field trips

### Startup Support Center

- Startup support business management and operation
- Startup club operation and management
- Business management and technical information consulting

## Student Counseling and Human Rights Center

It was established to create a healthy and rewarding experience by consulting and solving problems in school life, such as occupation, military service, family, higher education, the opposite sex, and friendship. In addition, various psychological tests including aptitude test and personality test are conducted in response to students' requests, contributing to the improvement of the quality of life.

## Disabled Student Support Center

It was established to expand the opportunities of higher education for students with disabilities and implement integrated education with non-disabled students to improve the social integration of students with disabilities, improve awareness of the disabled, and improve the quality of education and welfare for the disabled. We are conducting various tasks for the purpose of improving the educational welfare environment and improving the quality of support services for students with disabilities.



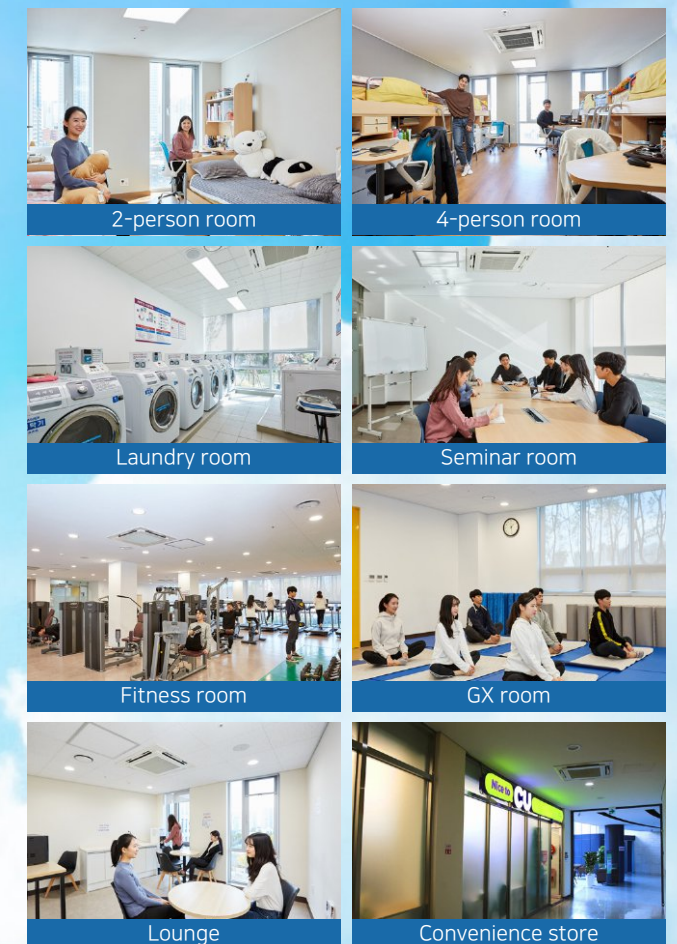
## Library

INHA library, which plays a role in supporting research and learning of faculty and students through information resource service, houses over 180,000 books, 50,000 e-books and audiobooks, and provides academic information through e-learning, Web DB, document delivery and resource sharing, and original text copy services. Library facilities include a library, general reading room, group study room, book cafe, cyber plaza, and study cafe, providing an optimal space for users to study and relax. In addition, we hold cultural events such as reading mentoring, book review contest, and electronic information fair to develop the character and culture of students, and provide them with convenient access to library information through mobile services anytime, anywhere.



## Dormitory

With 1 underground floor and 8 ground floors, INHA dormitory can accommodate 274 male students and 330 female students, for a total of 604 students. The rooms consist of 2-person / 4-person rooms for the disabled. In addition, the dormitory is equipped with a variety of convenient facilities, such as a convenience store, fitness room, GX room, laundry room, lounge, multi-purpose room, shared shower room, seminar room, and unmanned delivery box.





# Students Welfare Facilities

Inha Technical College is striving to create a variety of welfare facilities and a practical educational environment to foster creative talents.



Media Production Room 1 (Room 315A, Building 5)



Media Production Room 2 (Room 310, Building 7)



3D Printing Lab (Room 403A, Building 11.)



Laser Processing Lab (Room 403B, Building 11)



Study Café (Room 303, Building 1)



Study Café (Room 203, Building 5)



VR Room (1F, Building 3)



Open PC room (Room 303, Building 4)



Multipurpose Study Room (Room B106, Building 2)



Multipurpose Common Room for Creative Major-related Clubs (Building 5 B1F)



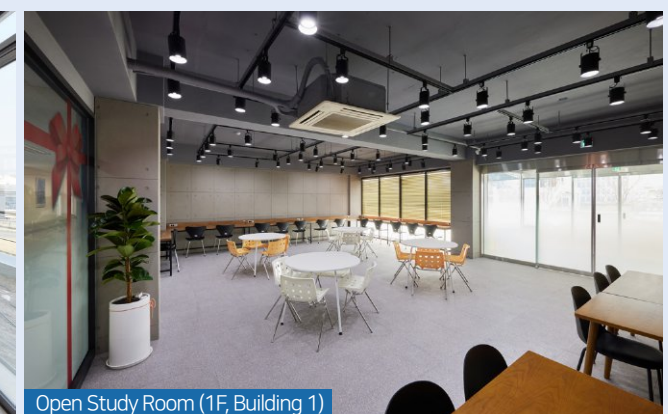
eLIVE CLASS (Room 316, Building 5)



Booth-type Media Processing Production Room (Culture Plaza, 1F, Building 3)



Open Study Room (2F, Building 11)



Open Study Room (1F, Building 1)



“  
*The true value of  
education that establishes  
right standards*  
”

### Original Vertical Datum of the Republic of Korea

The standard for the height of Korea's national land is the Original Vertical Datum (Registered as Cultural Property No. 247) installed within INHA Technical College. This means that the heights of Baekdusan Mountain and of the entire nation start from here. The Original Vertical Datum was established in 1963 by measuring the difference between the high and low tides off the coast of Incheon for about 3 years from 1913 to 1916 and connecting it to a fixed point on land, that is, the level origin, and its height value is 26.6871m above sea level. The level survey is not only guidelines for national land development such as national basic surveying, mapping, road and bridge construction, etc. but also an essential survey used as the core basic data of various construction projects, from water management including water supply and sewerage system, investigation of traces of flood damage caused by sea level elevation due to global warming, and disaster prevention, etc. Therefore, the precise level survey of national roads and major regional government offices originates from the original vertical datum, and the target original vertical datum installed by calculating the height of each area is an important national facility with great academic and historical value.



# DEPARTMENT INTRODUCTION

## Sleepless INHA

to a higher level

더 높은  
단계로

### Dept of Mechanical Engineering

Dept. of Mechanical Engineering  
Dept. of mechanical Design Engineering  
Dept. of Mechatronics Engineering  
Dept. of Semiconductor Machinery Maintenance  
Dept. of Naval Architecture & Marine Engineering  
Dept. of Aeronautical & Mechanical Engineering  
Dept. of Automotive Engineering

### Dept of IT Convergence Engineering

Dept. of Electrical Engineering  
Dept. of Electronic Engineering  
Dept. of Information & Communication Engineering  
Dept. of Computer Science  
Dept. of Computer Systems  
Dept. of Digital Marketing Engineering

### Dept of Earth Environmental & New Materials Engineering

Dept. of Civil and Environment Engineering  
Dept. of Geospatial Big Data  
Dept. of Chemical & Biological Engineering  
Dept. of Materials Science & Engineering

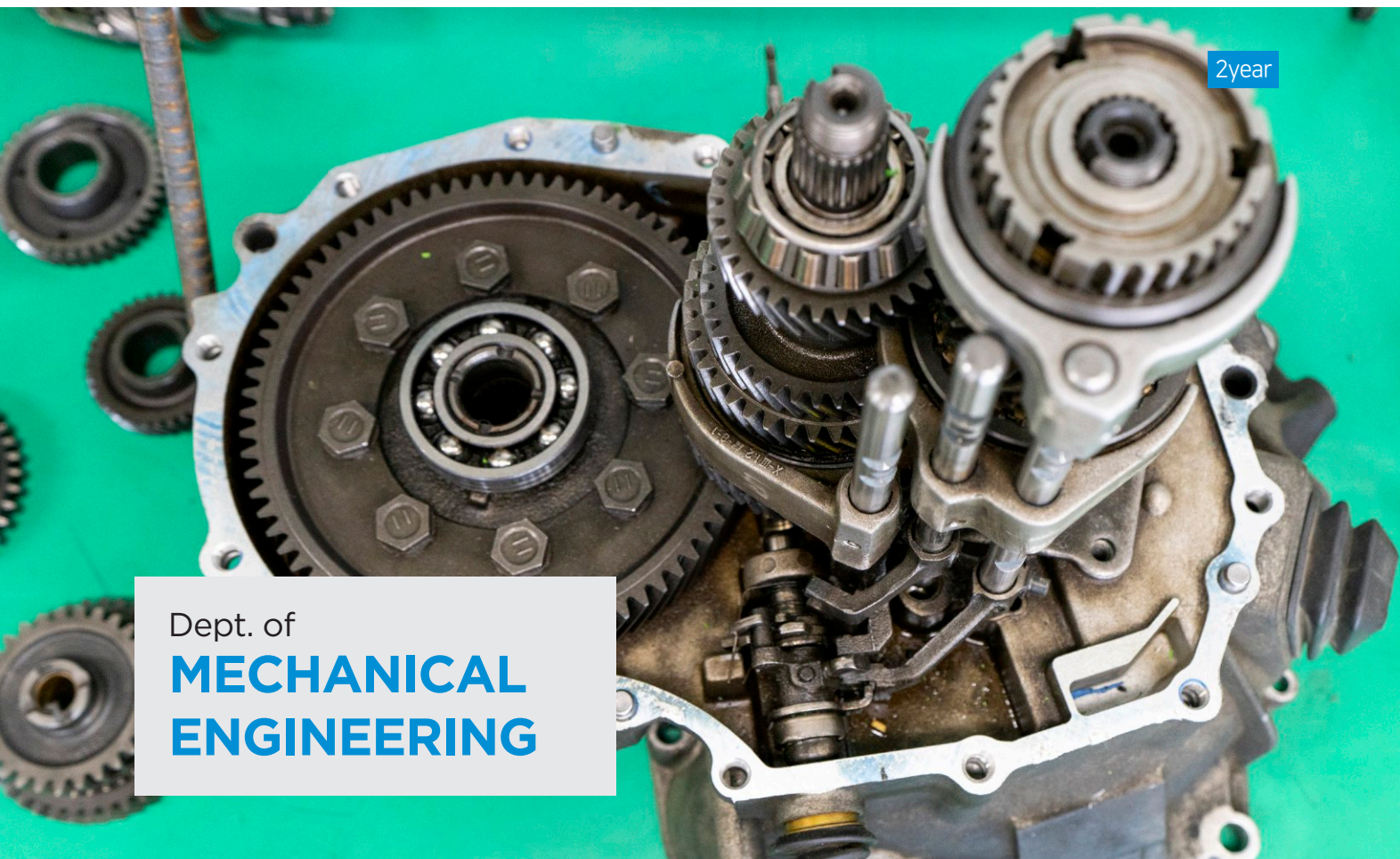
### Dept of Architecture and Design

Dept. of Architecture  
Dept. of Interior Architecture  
Dept. of Industrial Design  
Dept. of Fashion Design

### Dept of Service Management

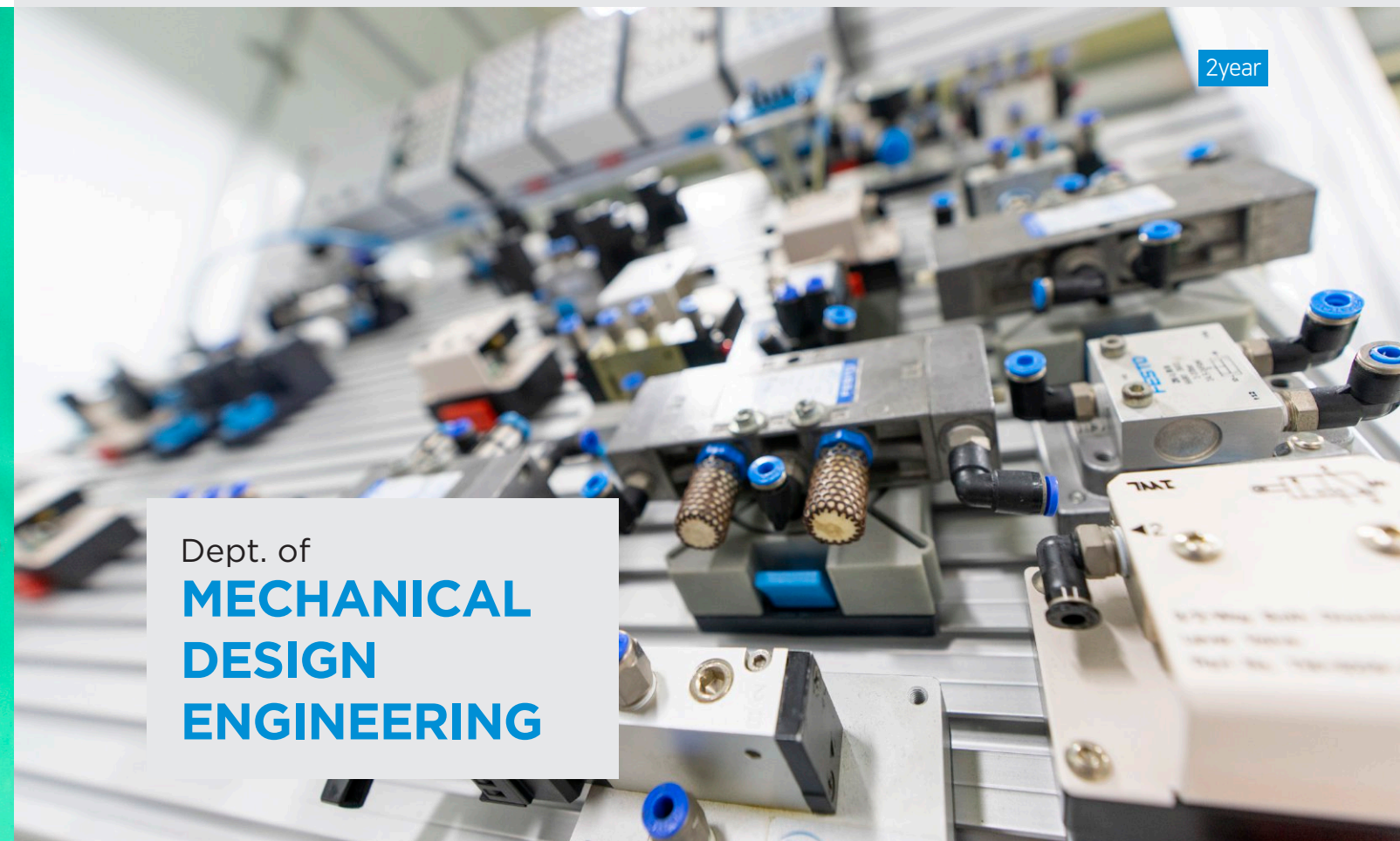
Dept. of Airline Cabin Service Management  
Dept. of Airline Service Management  
Dept. of Tourism Management  
Dept. of Business Management & Secretarial Science  
Dept. of Hotel Management  
Dept. of Logistics System  
Dept. of Sports Healthcare





Dept. of  
**MECHANICAL  
ENGINEERING**

2year



Dept. of  
**MECHANICAL  
DESIGN  
ENGINEERING**

2year



The Dept. of MECHANICAL ENGINEERING provides practical lectures and training from basics to applied technology to foster mechanical engineers who will lead the era of the 4th industrial revolution. In this department, based on theory and practical education, students learn the operation principle of various machines, design and manufacturing technology of mechanical parts, and operation and maintenance of mechanical equipment.

**Major Subjects**

Material mechanics, Fluid mechanics, Machining practice, CAD practice, Machine maintenance practice, Air control and refrigeration, and CNC machining

**Career Fields**

Machine facility operation and maintenance, Machine design and processing, Air control and refrigeration equipment, Machine automation equipment, and Technical civil servants



Dept. of MECHANICAL DESIGN ENGINEERING aims to foster professional engineers who can improve design and production efficiency in actual industrial sites through theoretical and practical education in the field of product design, control, and production based on convergence technology. In addition, to improve application abilities, Dept. of MECHANICAL DESIGN ENGINEERING expands the career fields by providing theoretical and practical education in the field of IT-based machine design based on interdisciplinary program with various major fields such as engineering design, production processing, instrumentation and control, and applied design.

**Major Subjects**

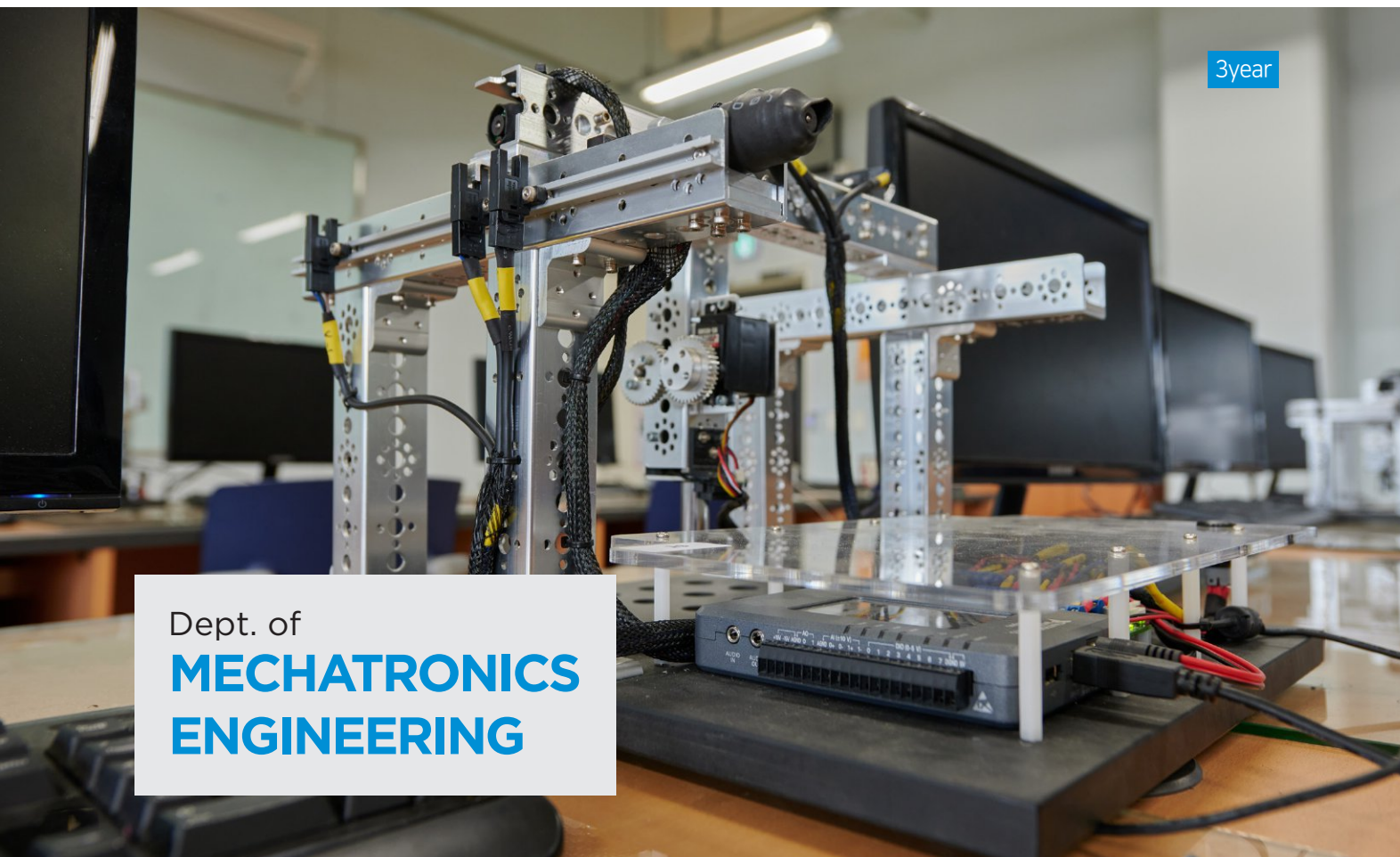
CAD modeling, Ergonomic design, 3D modeling, Machining center machining, Structural mechanics, Mechanical design, and Micro control and instrumentation engineering

**Career Fields**

Machine design, Production management, Machining, and Machine control, etc.

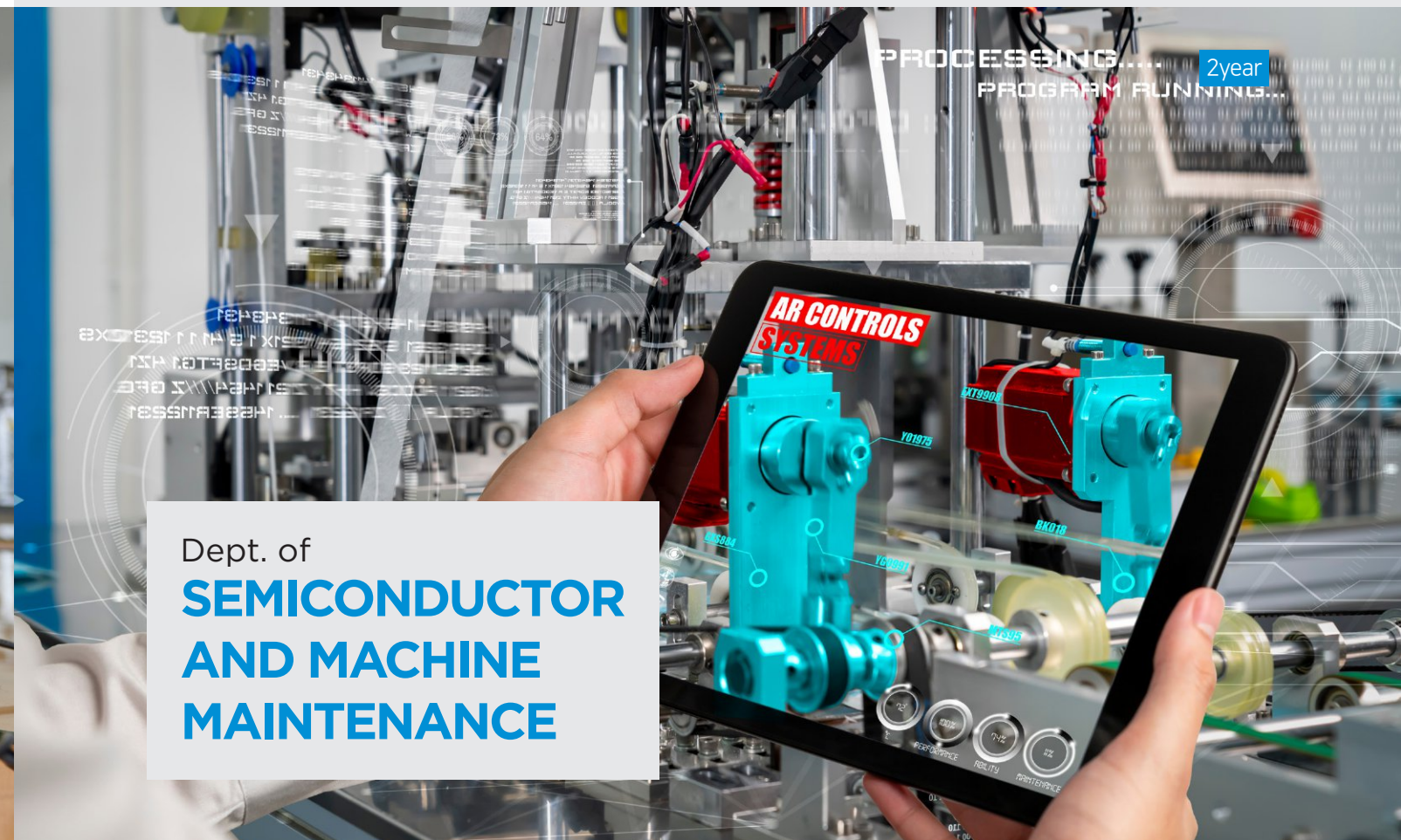






Dept. of  
**MECHATRONICS  
ENGINEERING**

3year



Dept. of  
**SEMICONDUCTOR  
AND MACHINE  
MAINTENANCE**

2year



Dept. of MECHATRONICS ENGINEERING provides education based on the theory and practice in the field of mechatronics concentrated on industrial automation for each industrial site for the purpose of fostering professional engineers who have mastered robot and automation system equipment technology, control system design technology, and mechanical/electronic fusion technology for automation of production facilities.

#### Major Subjects

Pneumatic control practice, PLC control practice, Motor control practice, 3D modeling practice, Automation system control practice, PC-based control practice, and Automation programming practice

#### Career Fields

Electric/electronic, mechanical equipment, Automation system, Factory automation system operation and controller development, Automation equipment development, Industrial facility, Hydraulic/pneumatic machine, Process design, and Mechatronics interface circuit design



The department is aimed to foster highest-level facility maintenance experts in an industrial field to predict, prevent, and maintain failure of mechanical equipment (systems), including semiconductor production and inspection equipment. In this department, students will learn cutting-edge smart factory machine technology in the era of the 4th Industrial Revolution and acquire facility diagnosis technology that incorporates big data technology.

#### Major Subjects

PLC control practice, Hydraulic and pneumatic practice, Semiconductor maintenance practice, Semiconductor equipment practice, Smart factory, Machine maintenance practice, Energy management practice, Power transmission practice, Welding practice

#### Career Fields

Samsung Electronics, SK Hynix, LG Chem, Hyundai Steel, POSCO Chemical, GS Caltex, ASML Korea, DB HiTek, Amkor Korea, Stats Chip Pack Korea



## Dept. of NAVAL ARCHITECTURE & MARINE ENGINEERING

Bachelor's Degree Majorization(e-MU) 2year



In the era of marine leisure industry and major education according to paradigm change of carbon neutrality, autonomous navigation, eco-friendliness, and digitalization, Dept. of NAVAL ARCHITECTURE & MARINE ENGINEERING fosters professional talents who have acquired basic technology, applied technology, and practical education required in the industrial field through theoretical and practical education for ship maintenance and piping design engineers. Students can participate in Korea Autonomous Boat Competition (KABOAT), ship design competition, through major club activities and experience the work environment through on-the-job training. In addition, through the Navy Technical Officer Major course, they can develop their career path as professional soldiers after graduation.

### Major Subjects

Naval and Marine NIE (Naval and Marine Technology trends learned from newspaper), 2D/3D CAD design, Ship piping production design practice, Ship building practice, Ship welding practice, Ship structure design practice, Ship internal combustion engine, and 3D printing and parts manufacturing

### Career Fields

Piping design for ships and plants | Shipbuilding | Ship equipment and parts production | General machine/Transport machine production design and production | Medium/Large ships, sail ship production and production design | Naval technical officer

# 1973

## Dept. of AERONAUTICAL & MECHANICAL ENGINEERING

Bachelor's Degree Majorization(e-MU) 3year



Established in 1976 the first time in Korea, Dept. of AERONAUTICAL & MECHANICAL ENGINEERING is fostering professional aviation engineers through both theory education and practice in aviation technology as a top frontier department leading the domestic aviation maintenance field. To this end, Dept. of AERONAUTICAL & MECHANICAL ENGINEERING provides the best All-in-One education curriculum through various theories and practical training and operator's field training so that students can learn not only complex aircraft bodies and engines, various systems essential for aircraft operation, but also maintenance capabilities in the avionics field, which is becoming more important in cutting-edge aircraft.

### Major Subjects

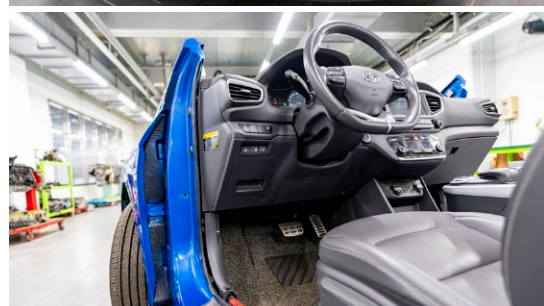
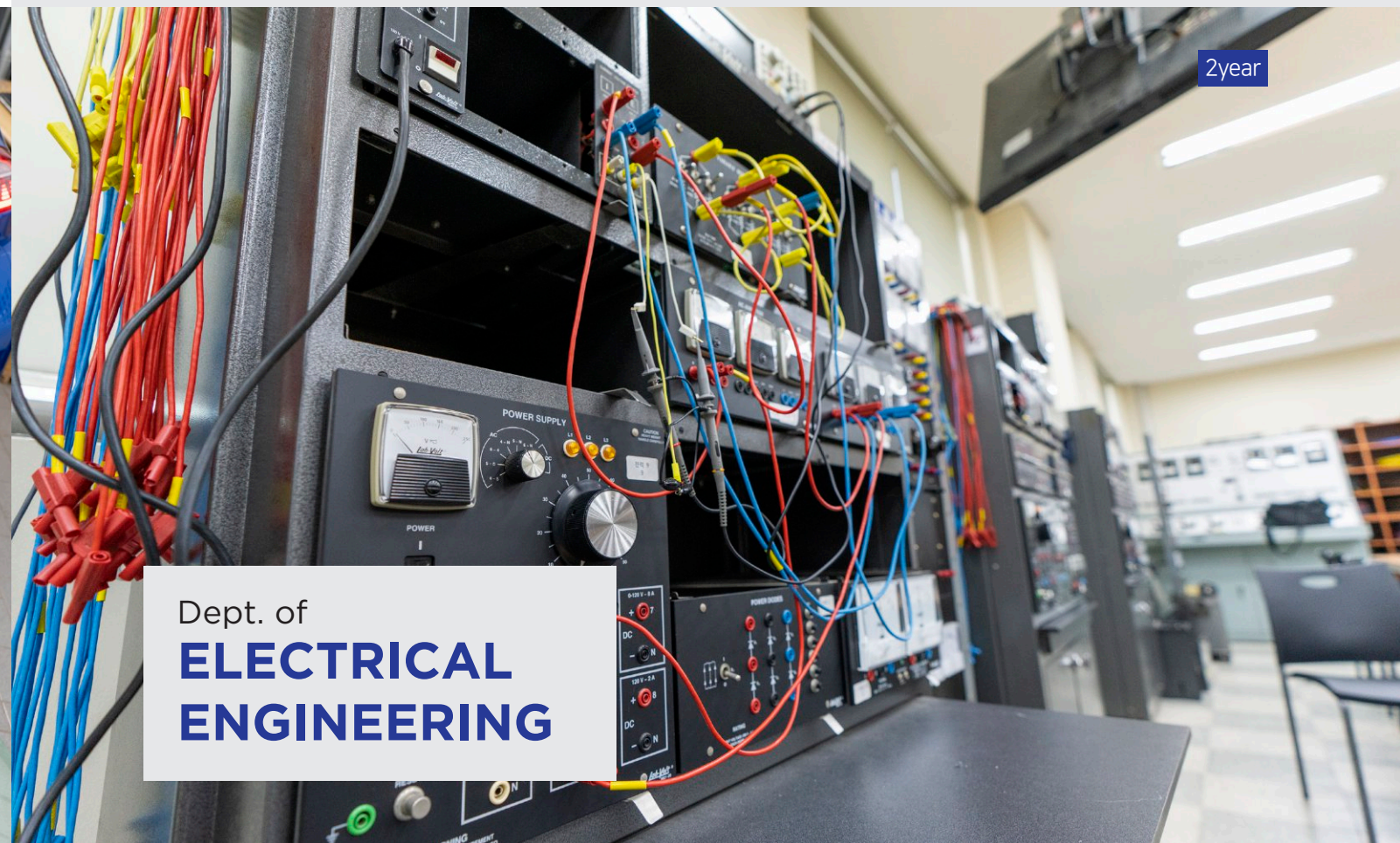
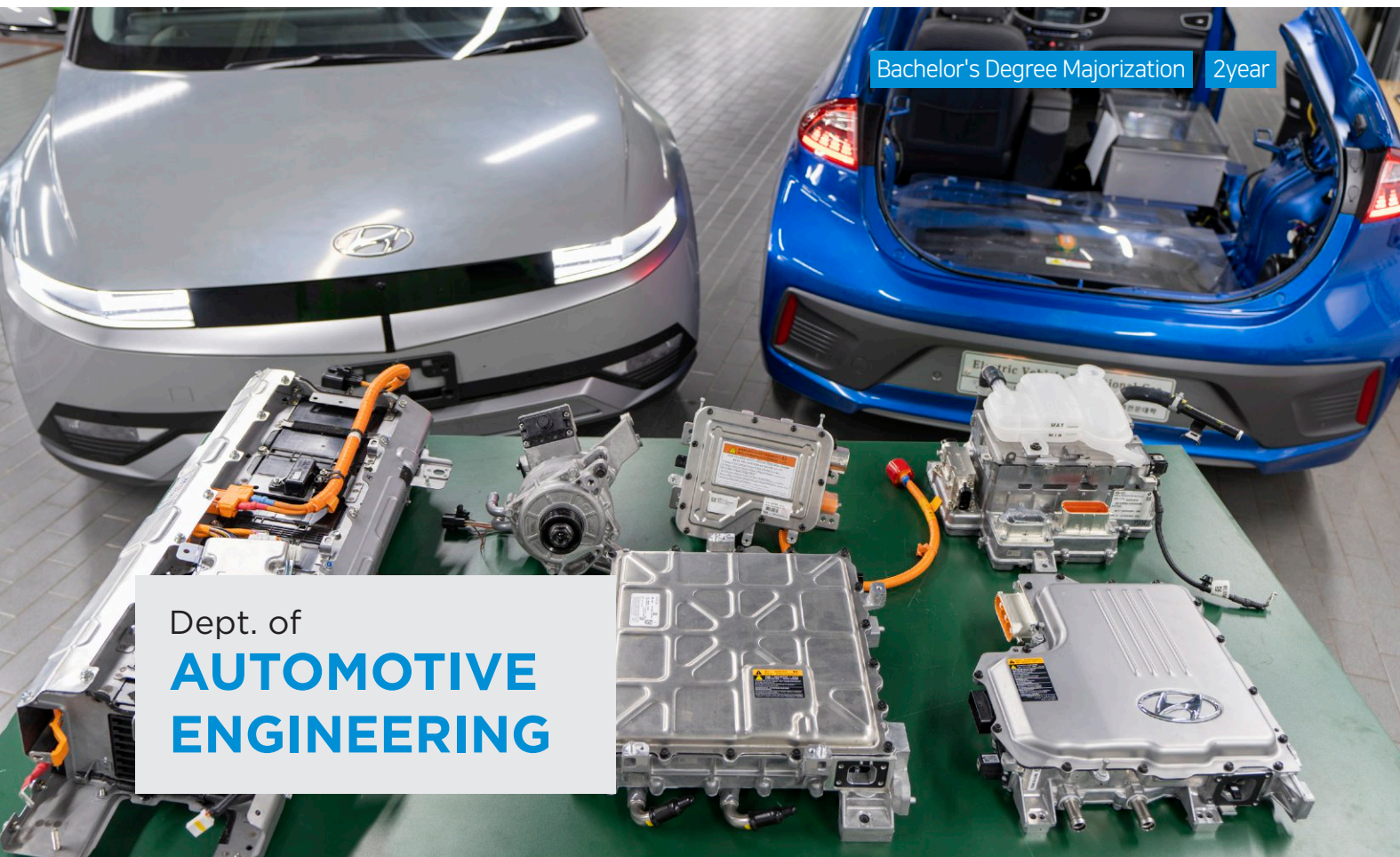
Aviation law and general aviation maintenance, Aerodynamics and flight performance, Aircraft airframe theory and practice, Aircraft engine theory and practice, Avionics/electronic/instrument theory and practice, Aircraft system, and Aviation digital engineering and data communication

### Career Fields

Aircraft maintenance, aircraft production, unmanned aerial vehicle production and development, general machine maintenance and equipment operation, and military personnel and non-commissioned officers

# 1976





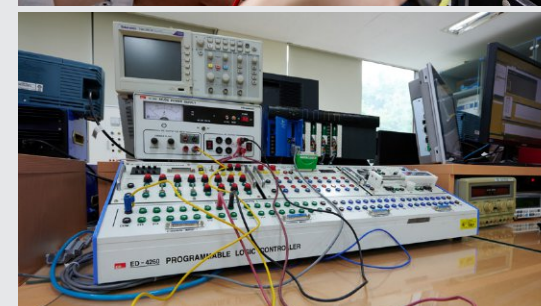
Established in 1995, Dept. of AUTOMOTIVE ENGINEERING is operating both 2-year bachelor's course and an intensive major bachelor's degree course for the purpose of fostering professional manpower with practical skills required in the field of hybrid vehicles, electric vehicles and fuel cell vehicles by systematically educating the field from theoretical education to applied practice in line with changes in the electrification of the automobile industry. As a result of efforts, Dept. of AUTOMOTIVE ENGINEERING was selected as a department for the 'Future Vehicle Maintenance Manpower Training' by the Ministry of Commerce, Industry and Energy.

#### Major Subjects

Automobile engine practice, Automobile chassis practice, Automobile parts design, Engine performance and emission practice, Hybrid electric vehicle, Basics of autonomous driving, and Smart factory

#### Career Fields

Automobile parts testing and development, Production management, CAD design, Automobile maintenance, and Automobile insurance



Dept. of ELECTRICAL ENGINEERING provides practical theory and education on electric power, electric equipment, electric equipment, and electric/electronic parts necessary for traditional electric field, intelligent power grid, future growth industries, and new and renewable energy field. Through industry-university cooperation, Dept. of ELECTRICAL ENGINEERING is fostering excellent professional engineers.

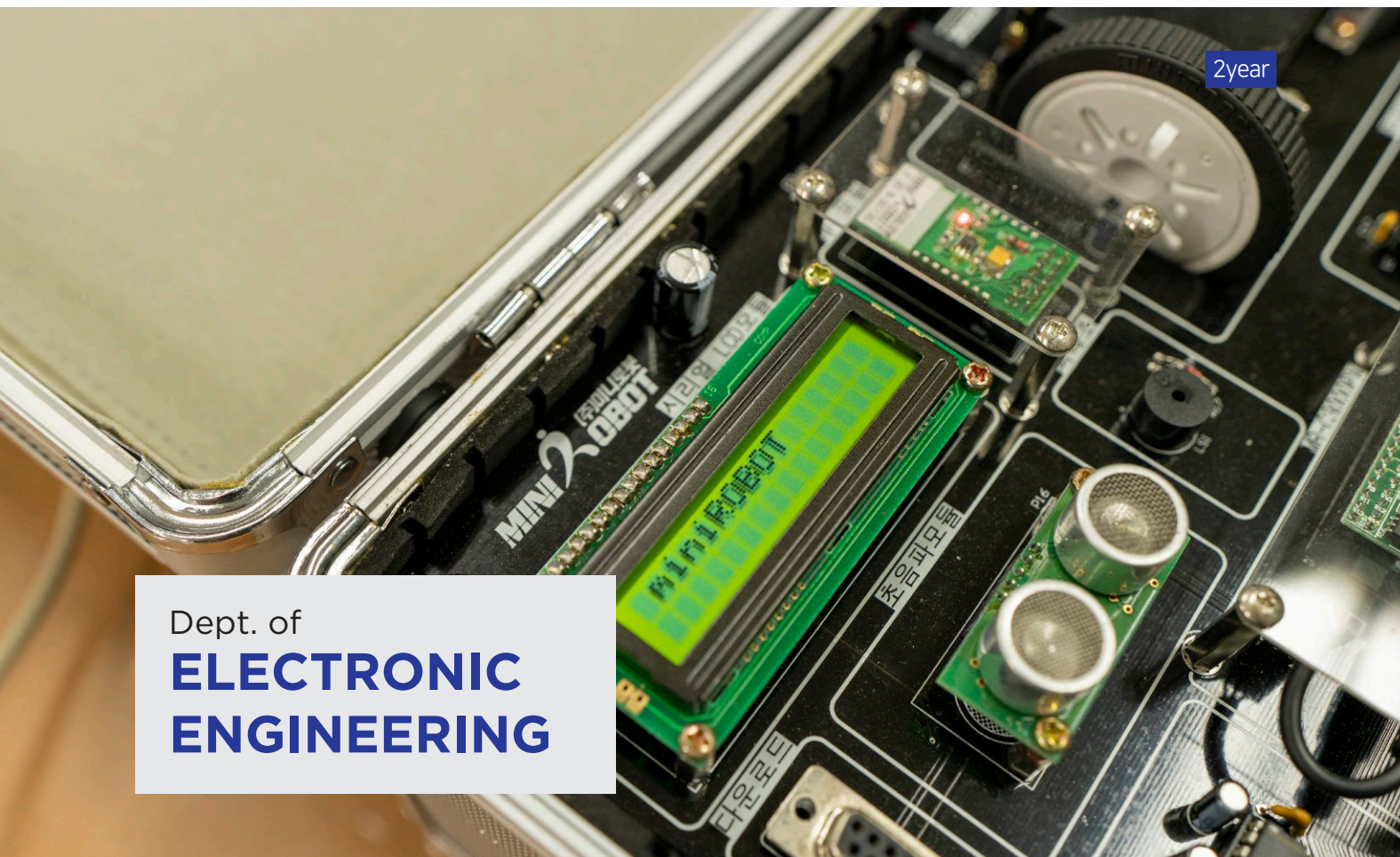
#### Major Subjects

Circuit theory, Electromagnetism, Electrical equipment, Power system, PLC control, Microprocessor, and Semiconductor processing equipment

#### Career Fields

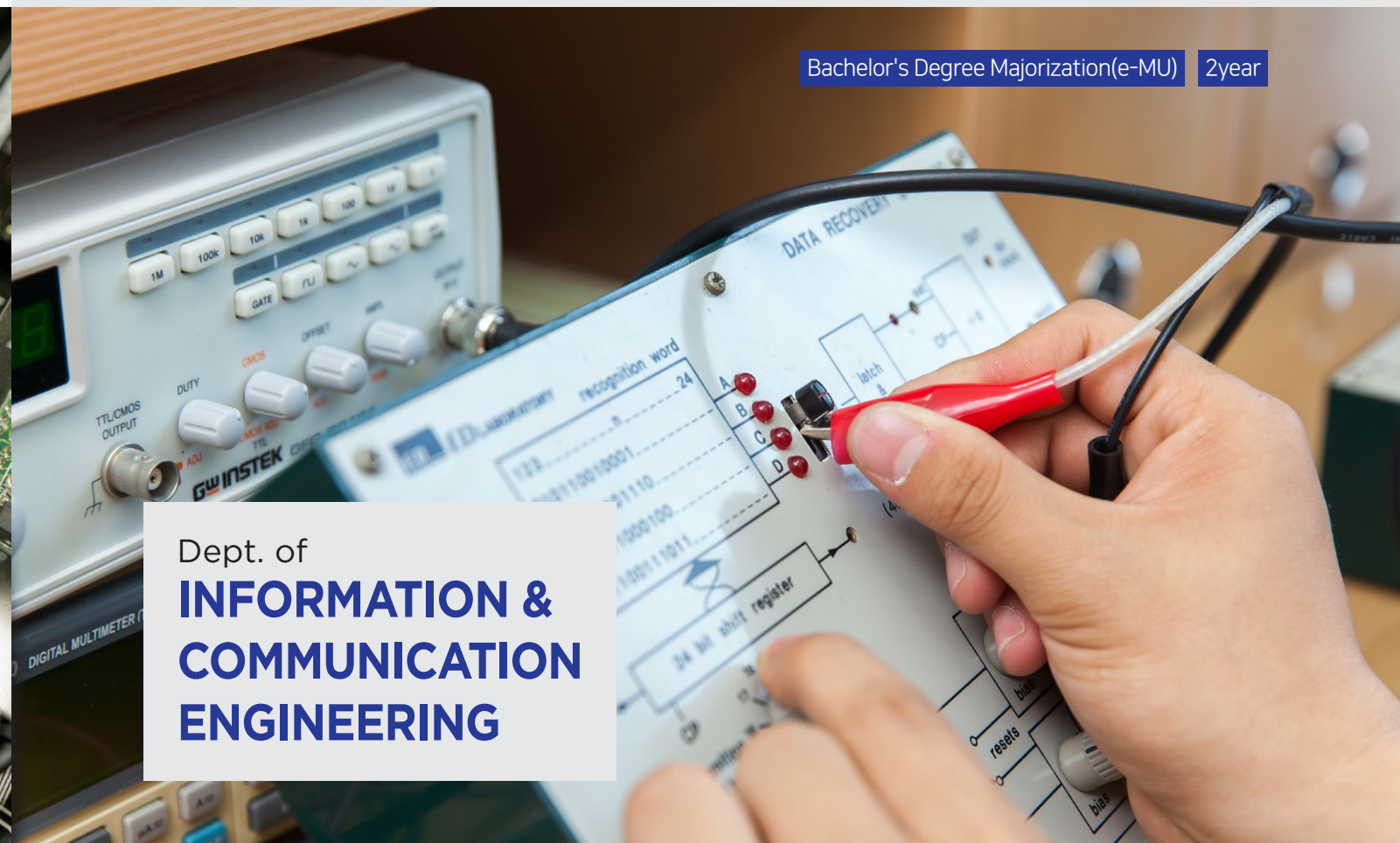
Electrical equipment design and maintenance, Plant maintenance and operation, Semiconductor equipment maintenance and operation, Automation equipment design and maintenance, and Electrical product design





Dept. of  
**ELECTRONIC  
ENGINEERING**

2year



Bachelor's Degree Majorization(e-MU) 2year

Dept. of  
**INFORMATION &  
COMMUNICATION  
ENGINEERING**



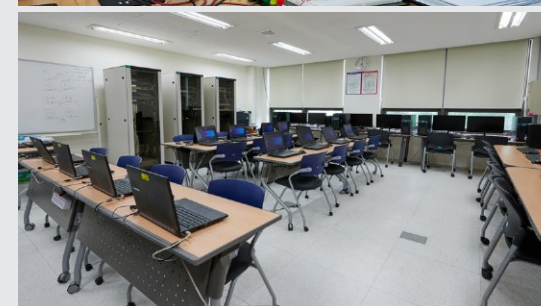
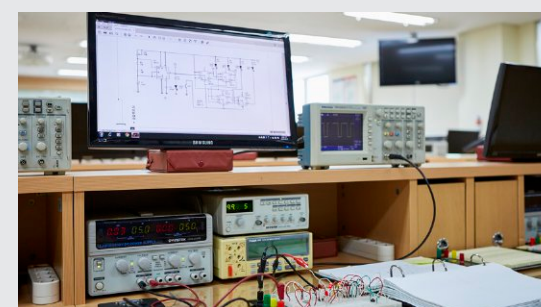
To achieve the goal of fostering talents in the field of home appliance hardware, semiconductor, and robot software development engineers, Dept. of ELECTRONIC ENGINEERING has established an active and open education system in response to technological change in the era of the 4th industrial revolution and provides programs of 1) modular semiconductor and embedded system education and field-oriented technology practice through practical field training, 2) international competency cultivation through personality education and English proficiency, 3) practical technical ability cultivation through SK Hynix's on-demand training track for the purpose of fostering professional engineers who will lead the high-tech electronics industry.

#### Major Subjects

Electromagnetics, Circuit theory, Digital engineering, C language, Microprocessor, VHDL, Semiconductor process, Electronic circuit, Embedded system, Robotics, Control engineering, and PLC control

#### Career Fields

Research and developer in the field of home appliance industry, Design and system development for electronics related companies, Production engineers and managers, Information and communication related fields, and Communication and broadcasting equipment development



Dept. of INFORMATION & COMMUNICATION ENGINEERING fosters field-oriented intermediate level experts in information and communication by applying the National Competency Standard (NCS) in the field of information and communication device hardware development and embedded software engineering in line with the 4th industrial revolution. To this end, Dept. of INFORMATION & COMMUNICATION ENGINEERING is developing a new curriculum that can apply IoT practice from basic coding theory to training S/W and H/W development engineers.

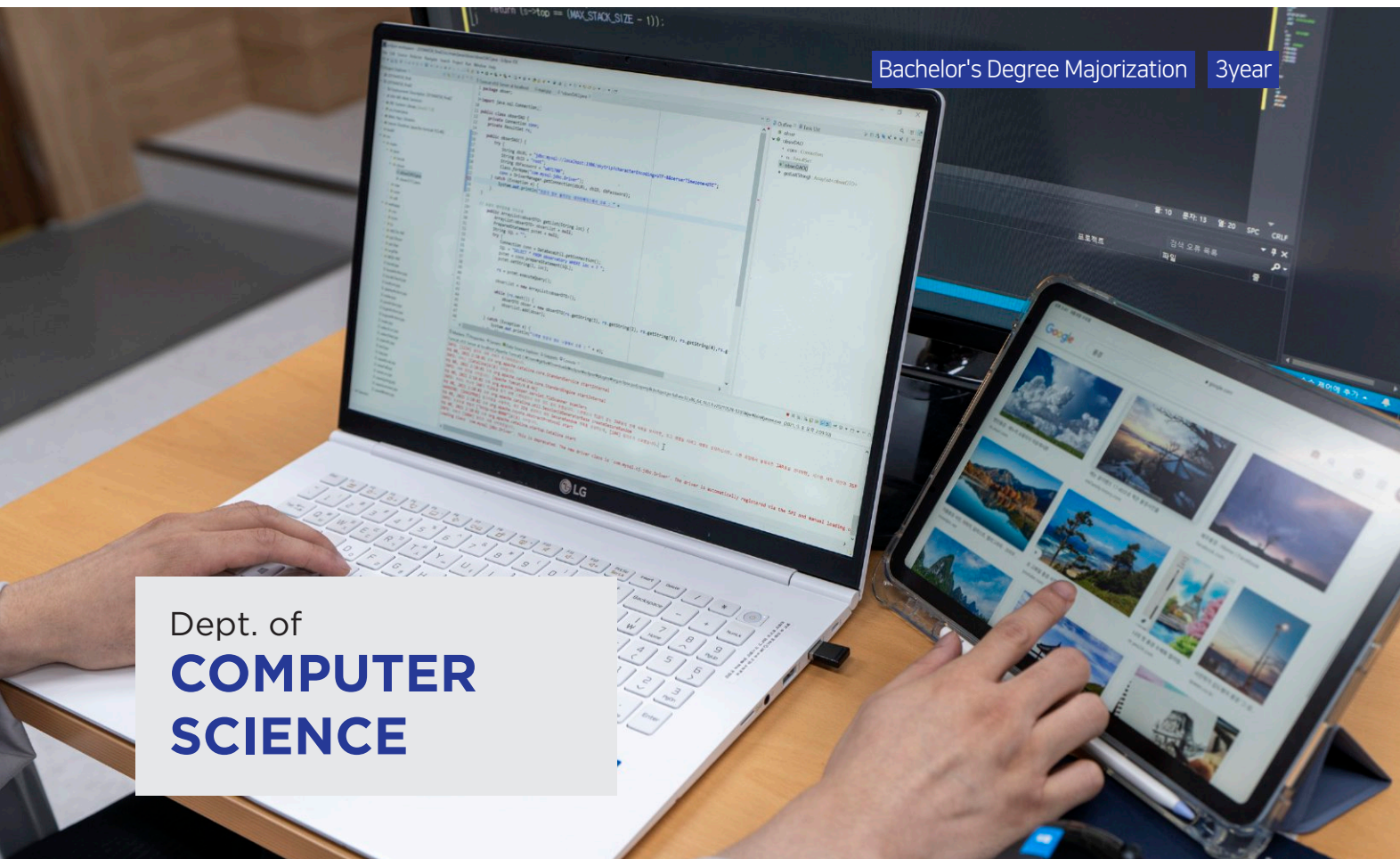
#### Major Subjects

RF engineering practice, Interface design, PCB design practice, IoT practice, Network management practice, Java programming application, and Server building practice

#### Career Fields

Information and communication device HW design and manufacturing, Communication module design and manufacturing, Large-scale data center security and maintenance, Big Data processing, Information and communication device maintenance, Software development and maintenance, and Semiconductor design and manufacturing process maintenance





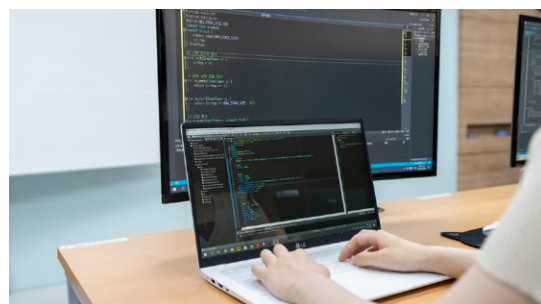
Bachelor's Degree Majorization 3year

## Dept. of **COMPUTER SCIENCE**



Bachelor's Degree Majorization 3year

## Dept. of **COMPUTER SYSTEMS**



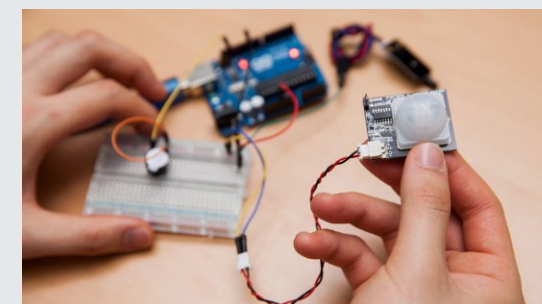
To foster software professionals leading the 4th industrial revolution era, Dept. of COMPUTER SCIENCE operates detailed curriculum for web programmers, app developers, SI/SM programmers, artificial intelligence developers, big data developers, IoT developers, and cloud operators and managers. Dept. of COMPUTER SCIENCE focuses on developing problem-solving skills of students from basic education for cultivating computational thinking ability to making their own software centered on projects, and provides advanced software technology education.

### Major Subjects

Data structure, Database, Web programming, Mobile programming, S/W project, AI, and Cloud computing

### Career Fields

Web software development, Mobile programming, Commercial software development, System operator, and Database management



Dept. of COMPUTER SYSTEMS trains students to quickly adapt to the industrial field through a practice-oriented curriculum that allows them to learn new technologies and advanced technologies of the HW and SW industries in preparation for the 4th industrial revolution era, and fosters talents with information technology skills and creative problem-solving ability.

### Major Subjects

C programming, Python programming, Machine learning basics, IoT embedded open platform, Database, System security, and Web security

### Career Fields

Embedded system, Mobile system, Digital home network, Network and security, Web service, Development language and AI, and Information security







2year

## Dept. of **DIGITAL MARKETING ENGINEERING**



Bachelor's Degree Majorization 2year

## Dept. of **CIVIL AND ENVIRONMENT ENGINEERING**



The department is aimed to foster talents who can lead the growth and success of corporate business by leveraging the latest digital technologies in an environment of a digitally transformed marketing paradigm. We teach students not only humanistic literacy in the field of digital marketing, but also various professional techniques required in practice, such as data collection and analysis, and video editing.

### Major Subjects

Introduction to digital marketing, Naver marketing strategies, Web coding, UX/UI design, UX writing, Performance marketing, Big data analysis, Web publishing, Video editing, Mobile marketing

### Career Fields

Marketing departments in major companies, e-Commerce companies, Advertising and marketing agencies, Digital marketing and technology development companies, Educational institutions, Program promotion departments, Hotel and travel marketing departments, Digital marketing departments in startup companies



Dept. of CIVIL AND ENVIRONMENT ENGINEERING fosters professional manpower who understands the characteristics of the civil environment field and designs civil structures through theoretical and practical education on structure, soil quality, repair, construction materials, surveying and environment necessary for all fields of civil environment, thereby being capable of conducting activities in all fields such as design, construction, management, operation, and diagnosis both at home and abroad.

### Major Subjects

Applied mechanics, Soil mechanics, Reinforced concrete engineering, Surveying, Water and sewage engineering, and Hydraulics, etc.

### Career Fields

Design company, Construction company, Survey company, Environmental company, Public official, Public institution, and Research institute, etc.







3year

## Dept. of GEOSPATIAL BIG DATA



Dept. of GEOSPATIAL BIG DATA is a specialized department established for the first time in Korea to foster GIS experts, and aims to foster experts in the field of spatial data which is emerging as a key field in the era of the 4th industrial revolution. To that end, through spatial bigdata-based ICT convergence, education is being conducted on IoT, digital virtual space, and 3D map production for autonomous vehicle driving. Selected as a specialized geospatial data specialist college by the Ministry of Land, Infrastructure and Transport in 2017, the department has been conducting field-oriented practical education based on the best spatial information industry education system. From the 2022 academic year, as a three-year course, it strengthens the education of big data analysis and GIS system developers. In addition, by focusing on job training related to 3D modeling experts and drone spatial information processing, the department will foster the best spatial information big data experts in Korea.

### Major Subjects

GIS basic practice, Drone image processing practice, Web GIS practice, Big Data programming Practice, Geospatial information mobile programming, Spatial information supreme framework, and MMS precision map making practice

### Career Fields

Geospatial data processing and analysis company specializing in GIS, Information processing and system development company, Aerial (drone) photogrammetry and mapping company, GIS related government agencies and local governments (public officials), and Big data processing and analysis company

# 1991



2year

## Dept. of CHEMICAL & BIOLOGICAL ENGINEERING



Dept. of CHEMICAL AND BIOLOGICAL ENGINEERING offers programs that allows students to acquire skills related to material analysis, process management, and product production in the chemical and bio fields through the theory and laboratory practice education of chemical engineering and bioengineering, and to adapt directly to the jobs required in related industrial sites.

### Major Subjects

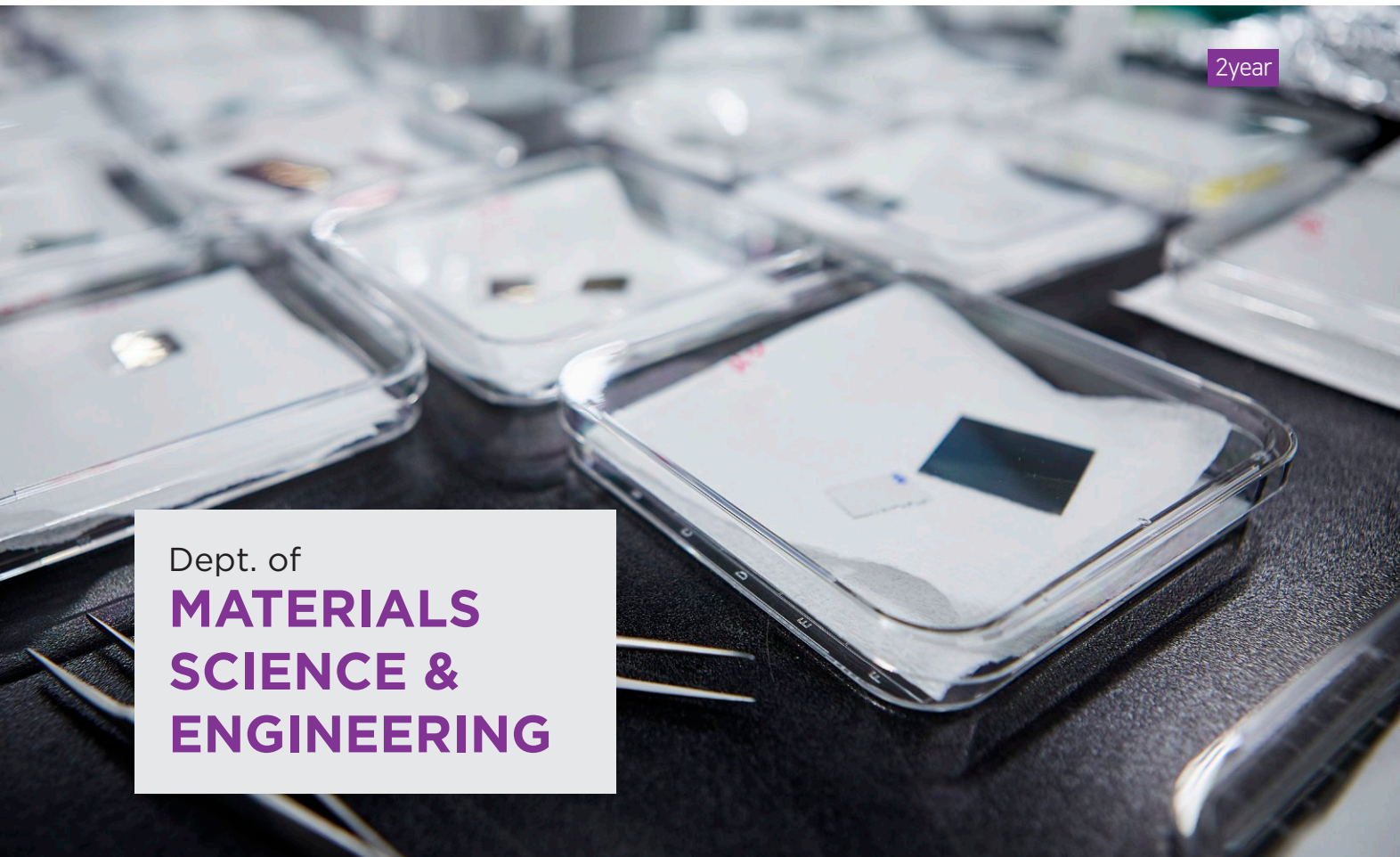
General chemistry experiment, Organic chemistry experiment, Unit operation experiment, Instrumental analysis experiment, Environmental analysis experiment, Introduction to life science, and Biochemical engineering experiment

### Career Fields

Petrochemical field such as refining, gas, and energy; Life science fields such as bio, healthcare, and pharmaceuticals; and Materials and polymer chemistry field such as semiconductors, displays, and secondary batteries

# 1960





Dept. of  
**MATERIALS  
SCIENCE &  
ENGINEERING**

2year



Dept. of  
**ARCHITECTURE**

Bachelor's Degree Majorization 3year



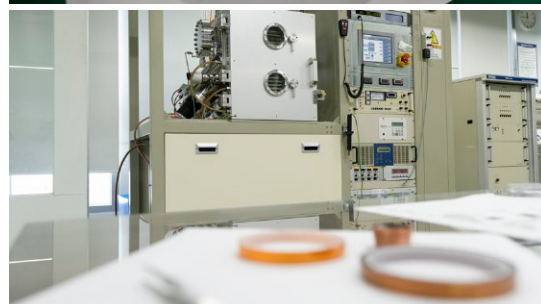
Dept. of MATERIAL SCIENCE & ENGINEERING fosters competent professional engineers required by the industry in line with the demand of manpower with expertise and skills due to the development of various new materials and the expansion of material application fields. Based on the development of basic skills in the major, the department fosters competent professional engineers through basic theories of various materials including metals, and systematic practice-oriented practice.

**Major Subjects**

Materials science, Introduction to Materials Engineering, Steel materials science, Steelmaking engineering, Semiconductor manufacturing process, Materials testing practice, and Thin film engineering practice

**Career Fields**

Steel, Material processing, Semiconductor, Display field, and New materials



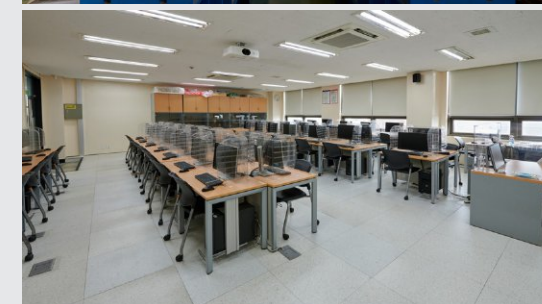
Dept. of ARCHITECTURE fosters professional architects with the abilities and skills required in industrial sites through education on three-dimensional and up-to-date construction methods and practice using various digital media, such as architectural design and BIM education based on creativity, related laws and plans, structures, and facilities, etc.

**Major Subjects**

Building plan, Architectural design, Building construction, Building structure, Building equipment, Building regulations and BIM (Building Information Modeling)

**Career Fields**

General (professional) construction industry, Architectural design, Architectural structure design, Building facility design, and BIM (Building Information Modeling)

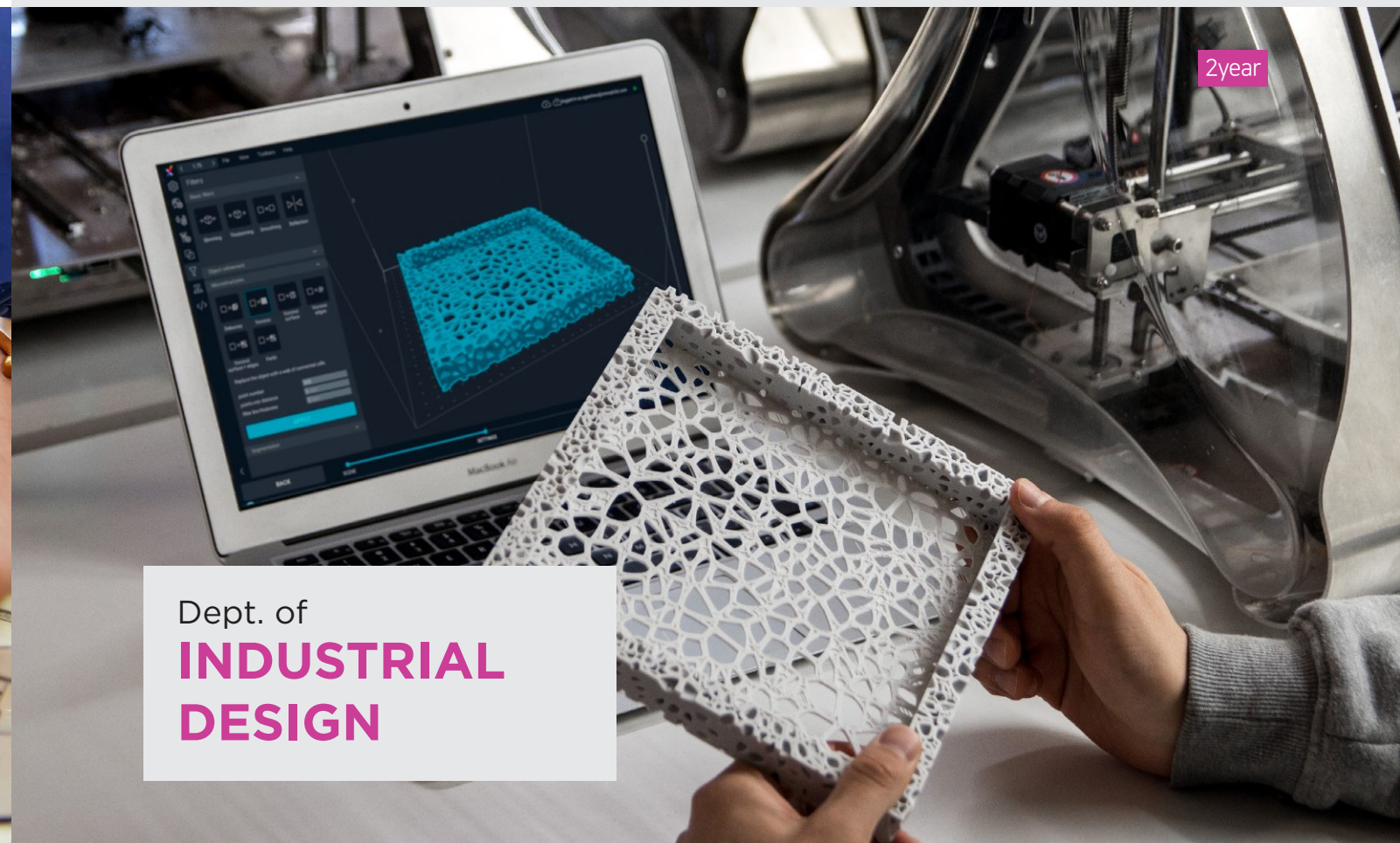






Bachelor's Degree Majorization 3year

## Dept. of INTERIOR ARCHITECTURE



2year

## Dept. of INDUSTRIAL DESIGN



Dept. of INTERIOR ARCHITECTURE provides education focusing on design and construction with the goal of fostering cultivating well-balanced interior architects, and focuses on creative space design and application of perfect construction practices. In addition, the department fosters interior architects who can lead the 21st century through education on the use of various computer programs, design education in a one-to-one studio method, and practical construction practice education.

### Major Subjects

Graduation design studio, Capstone design studio, Exhibition space design studio, Commercial space design studio, Residential space design studio, Interior construction finishing materials practice, Interior architecture CAD, MAX, and Sketchup

### Career Fields

Interior architecture design office, Architectural design office, Interior construction company, Construction company, Lighting system company, Display (department store), and Furniture company



Dept. of INDUSTRIAL DESIGN fosters competent mid-level designers who can satisfy the industrial value of design in the fields of visual design, web design, and product design by enhancing creative thinking, design technology, and marketing ability required in the industrial field through various educational courses and practical programs in the field of industrial design.

### Major Subjects

Computer application 3D, Product design, Advertisement design, Web & App design, Home appliance design, Graphic design, Package design, and C.I design

### Career Fields

Graphic design, Advertisement design, Web design, Home/environmental product design, Product design, Transportation device design, Public design, Design R&D, Design marketing, and other design services, etc.





2year

Dept. of  
**FASHION  
DESIGN**



2year

Dept. of  
**AIRLINE CABIN  
SERVICE  
MANAGEMENT**



Dept. of FASHION DESIGN fosters professional manpower required in the field of fashion, such as fashion designers and fashion merchants, based on a field-oriented, practical-oriented fashion education course. In addition, based on the actual industry-university-linked master plan, the department fosters excellent manpower tailored to the industry through the industry-university cooperation with more than 40 fashion companies, and in response to the change in the fashion industry the department fosters talents in various fashion industries such as fashion startups for students who dream of starting a business, retail MD, and the flower of fashion distribution, etc, thus fulfilling its role as a 21st century fashion education institution.

**Major Subjects**

Fashion product production practice, Fashion technical design, Ready-to-wear cloths production, Fashion brand strategy planning, Industrial pattern, Fashion communication, and Fashion product sales management

**Career Fields**

Fashion designer, Planning MD, Retail MD, Shop master, VMD, Stylist, and Startup



Dept. of AIRLINE CABIN SERVICE MANAGEMENT was established in 1977 for the first time in Korea to train cabin crews with intelligence and expertise. Through theoretical and practical education system and service field education that cultivates the ability to speak various foreign languages and cultural sense, the department fosters professional manpower necessary for various service fields as well as aircraft crews.

**Major Subjects**

In-flight broadcasting practice, In-flight cabin safety management, Pre-flight cabin service practice, Passenger transportation before landing, Cabin service conversation practice, Interview practice, and Emergency patient response

**Career Fields**

Service-related companies such as domestic and foreign airlines, General office workers including secretarial positions at large corporations, and Hotel and tourism





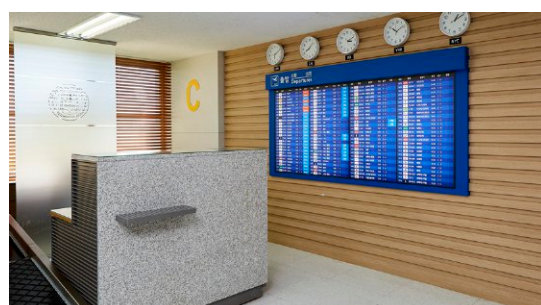
2year

## Dept. of AIRLINE SERVICE MANAGEMENT



Bachelor's Degree Majorization 2year

## Dept. of TOURISM MANAGEMENT



Dept. of AIRLINE SERVICE MANAGEMENT aims to foster professionals required in the air transportation and related industries. Utilizing the computer reservation system and air cargo system connected to Korean Air, the department provides realistic education on reservation, ticketing, transportation, and cargo operations, and fosters professional manpower with knowledge and ability through education in foreign languages such as English, Japanese, and Chinese, and various practical training programs such as service mind enhancement and office automation.

### Major Subjects

Air passenger reservation practice, Air passenger ticketing Practice, Air transport practice, Air and sea freight practice, Conversation in English and Japanese, Writing in English, Business manner practice, and Office automation practice

### Career Fields

Airline, Air freight/marine freight company (General logistics company), Bank and securities company (financial institution), Travel agency (tourism service industry), and General large companies



Dept. of TOURISM MANAGEMENT provides various major subjects related to the tourism field, such as customer service improvement education, foreign language education, etc. to foster professional manpower contributing to the tourism industry.

### Major Subjects

Introduction to Tourism Studies, Travel agency management, Tourism geographic resources, Tourism marketing, Tourism English, Tourism Business Japanese, Resort and Capstone design, and Theme parks and Entertainment

### Career Fields

Travel agencies, Resorts, Theme parks, Tourist hotels, Conventions, Restaurants, Duty-free distribution, General large corporations





2year

Dept. of  
**BUSINESS MANAGEMENT &  
SECRETARIAL SCIENCE**



2year

Dept. of  
**HOTEL  
MANAGEMENT**



Dept. of BUSINESS MANAGEMENT & SECRETARIAL SCIENCE fosters professional secretarial personnel with general informatization skills, office skills, and foreign language skills required by the modern knowledge society in line with the era of the 4th industrial revolution. In addition, through character education, the department fosters professionals with the skills and character to exhibit harmonious human relationship in the corporate organization and to assist the top management of the company wisely.

**Major Subjects**

Introduction to Secretarial Studies, Basic business management theory, English grammar, Accounting principles, Business English documents, Word Processor, and Document writing practice

**Career Fields**

General companies, Public institutions, Financial institutions, Educational research institutions, and medical institutions



Dept. of HOTEL MANAGEMENT operates internationalized and differentiated educational programs, including lectures and practical training, ranging from the basics of hotel service to responding to each situation. Based on this, the department fosters professional service personnel who will be in charge of customer service in the global hotel and casino business industry by cultivating service capabilities in the overall hospitality industry such as hotels and casinos.

**Major Subjects**

Hotel management theory, Guest room management theory, Food and beverage service practice, Hotel marketing, MICE practice, Casino practice, Hotel English conversation, and Restaurant management theory

**Career Fields**

Domestic/overseas hotel industry, Restaurant industry, Casino industry, MICE industry, Tourism and leisure industry, and other related companies





## Dept. of **LOGISTICS SYSTEM**



## Dept. of **SPORTS AND HEALTH CARE**



The department is aimed to foster logistics experts equipped with theoretical knowledge and practical skills in response to the changes and demands of the 4th Industrial Revolution. With faculty members that have extensive experience, we foster talents who can demonstrate their best capabilities as logistics experts not only in domestic companies but also in overseas companies through industry-academic cooperation education with Korea's representative logistics and transportation companies.

### Major Subjects

Logistics management theory, Cargo transportation theory, International logistics theory, Storage and unloading theory, Logistics-related laws, Cargo management, Trade practice, FTA origin management, Import/export customs clearance, Bonded area management, Trade document creation, Business English

### Career Fields

Domestic and global logistics companies, Shipping companies, Ports and trading companies, Logistics consulting companies, Logistics-related public institutions



The department is aimed to foster sports health management experts who can prescribe customized exercise programs according to health conditions and provide counseling and education related to stress management and physical activity. Students will learn scientific knowledge about modern people's health management. In response to the needs of the times due to the expansion of the athletic population, we also foster sports experts equipped with both theoretical knowledge and practical skills through various practices so that they can instruct sports activities in facilities and fields.

### Major Subjects

Sports psychology, Sports sociology, Sports physiology, Training methodology, Myofascial release and taping, Sports injuries and prescription theory, Body alignment exercise instruction, Athlete conditioning

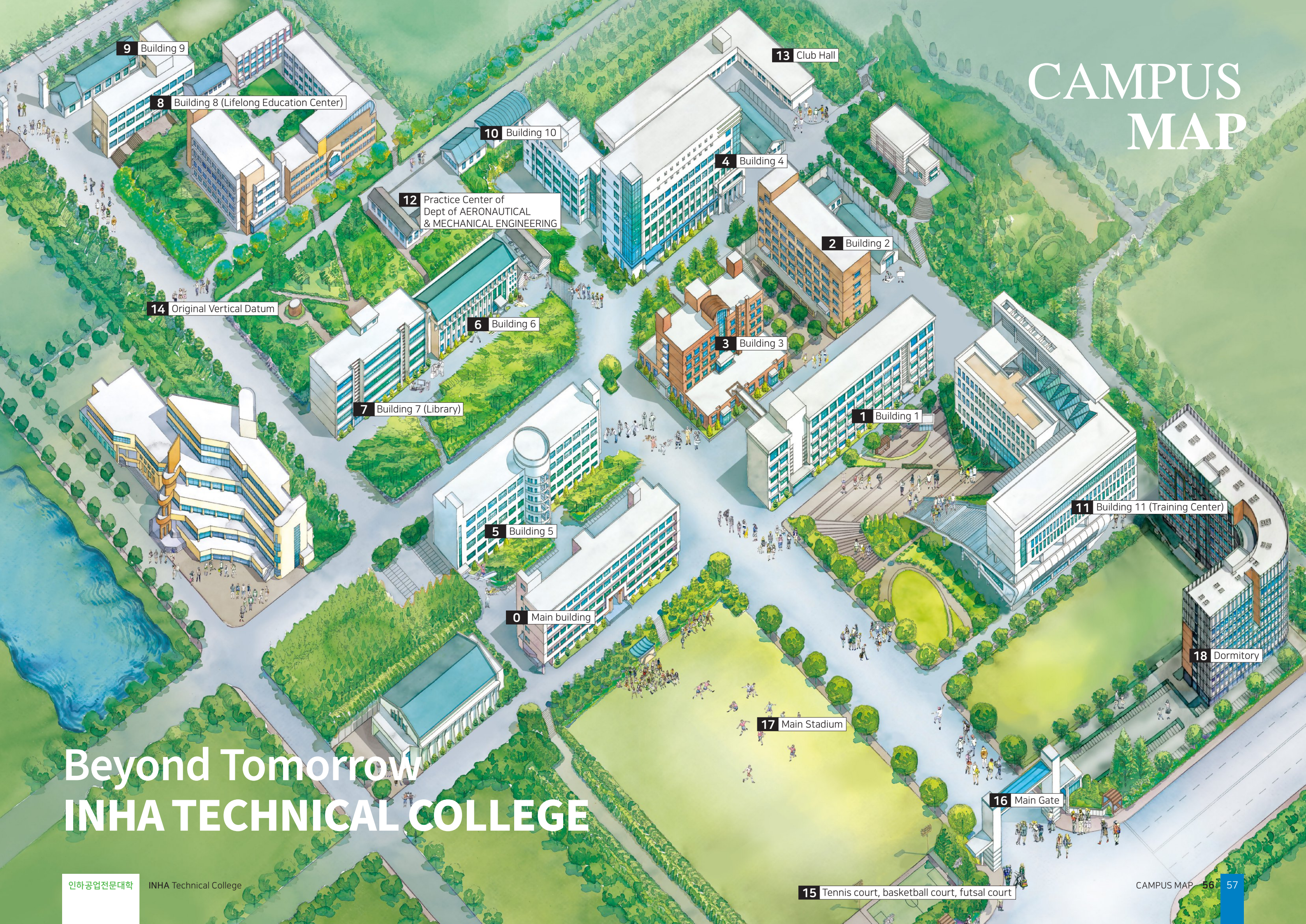
### Career Fields

Korea Sports & Olympic Committee, Korean Council of Sports for All, Various sports organizations, Sports-related departments of local government, Sports for all instructors at local government



# CAMPUS MAP

## Beyond Tomorrow INHA TECHNICAL COLLEGE



9 Building 9

8 Building 8 (Lifelong Education Center)

10 Building 10

13 Club Hall

4 Building 4

12 Practice Center of  
Dept of AERONAUTICAL  
& MECHANICAL ENGINEERING

2 Building 2

14 Original Vertical Datum

6 Building 6

3 Building 3

7 Building 7 (Library)

1 Building 1

11 Building 11 (Training Center)

5 Building 5

0 Main building

18 Dormitory

17 Main Stadium

16 Main Gate



“

*Creating more Value*

”

“

*Providing greater opportunities for  
those that challenge*

”

인하공업전문대학

인하공업전문대학





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INHA TECHNICAL COLLEGE