

Table Of Contents

- 1 Introduction
- 2 Departments
- 3 Graduate school
- 4 Research center, Academic Laboratory
- 5 Industry-University Cooperation, Q&A



College

- Established College of Information Technology and Engineering in 2008
- 4 departments :
- Electronic Engineering
- Electrical Engineering
- Computer and Information Engineering
- Information and Communication Engineering

Dean

 Dean of College of Information Technology and Engineering: Lee, Seung Gol



- Education:

Ph.D. Korea Advanced Institute of Science & Technology, 1993

- **Laboratory**Optoelectronics Lab
- **Research Area**LED luminaire design, Optical metrology and inspection

The College of Information Technology and Engineering (CITE) aspires

- To cultivate the highest level of professionals that are recognized in a knowledge-based society through practicecentered education, and
- To actively participate in the globalized and rapidly changing Information Technology industry by nurturing creative and responsible engineers.

The mission of CITE

 To pursue educational superiority to play an important role of teaching, research and public service, and to produce leaders in the field of information technology.

http://itengcollege-eng.inha.ac.kr/Default.aspx



Faculty & Student Enrollment

Introduction

■ Full-time Faculty member

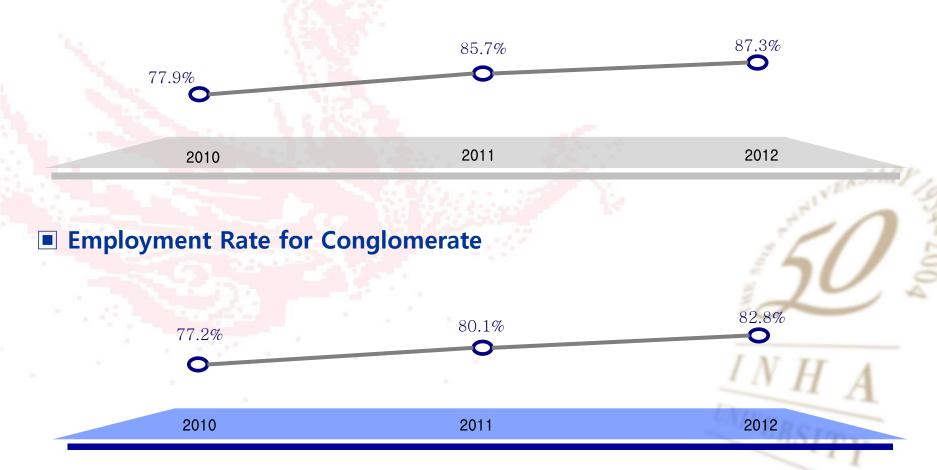
(As of October 1)

Classification	Electronic	Electrical		Information & Communication	Total
Professor	10	10	11	14	45
Associate professor	6	2	7	3	18
Assistant professor		-	1	2	3
Total	16	12	19	19	66

Student Enrollment(Undergraduate)

Category		Total
	Electronics	494
Electronic & Electrical	Electrical	411
engineering	Electronic & Electrical engineering(1 gr.)	216
Computer & Information		838
Information & Communication		693
Total		2,652

■ Employment Rate of College of IT and Engineering over the years



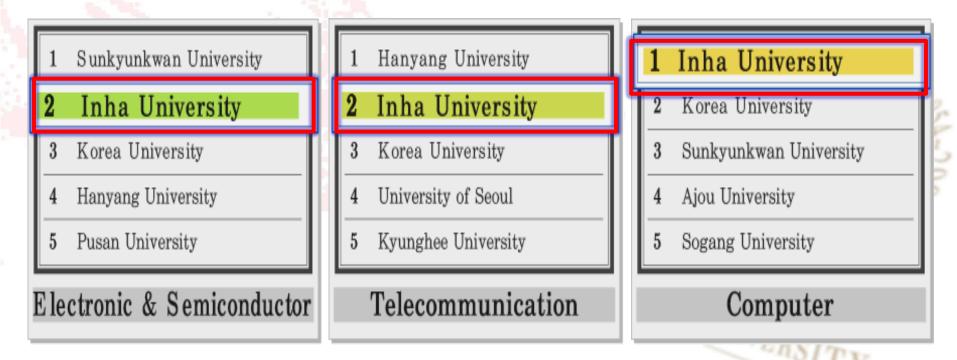
	International relationship(College of ITE)		
	2010	2011	2012
Partner University	161 (accumulated)	209 (accumulated)	231 (accumulated)
Outgoing Exchange Student	235(14)	254(19)	274(16)
Incoming Exchange Student	150(19)	151(17)	269(30)
Summer school	171	245	477

❖ Summer school:

Program which provide overseas college students with hands-on opportunities to learn the Korean language and experience the cultural and academic life in Korea

Introduction

- Developing the most advanced field of IT
- New scholarship programs to support talented student in the field of IT
- Practical Education through the Industry-University Collaboration



※ Released by Ministry of Education, Science and Technology and Korean Council for University Education in 2011



Top Ranking University at Graduates Reputation

Introduction

5th in Graduate Employment Rate / 8th in the number of company executives

Graduate Employment Rates

LINITY	2010		2011	
UNIV.	%	RANK	%	RANK
Inha Univ.	58.7	4	64.6	5
Sungkyunkwan Univ.	65.2	1	3.7	2
Korea Univ.	64.c	by almo	`	4
Yonsei Univ.	64	over a ye	ear ago!!! 5.2	3
Hanyang Univ.	57.8	5	64.4	6

- Based on the graduate employment of four-year universities with more than 3,000 graduating students.
- **X INHA University is...**
 - Maintaining Database Management System for Employment
 - Operating Courses for Employment
 - Holding Employment Fairs repeatedly
 - Starting Special Lectures series on Employment

■ The number of Listed Company* Executives

c100	
snar 1	
3	
// .	
91	
\ b	
A	
1	
2	
40	
39	

X Released by Maeil Business Newspaper in 2011



X Listed Company: Samsung, Hyundai Motor Company, SK and LG

Departments(Bachelor's Degree)



College of Information Technology And Engineering

Electronic & Electrical Engineering

- Dept. of Electronic Engineering
- Dept. of Electrical Engineering

Dept. of Computer & Information Engineering

Dept. of Information & Communication Engineering



Electronics Engineering

Major Programs

- Operation of Specialized education programs
- ABEEK
- Double major and minor
- Industry-academia cooperation program involving Samsung, Hynix etx.

STS(Selective Track System)

- Semiconductor & VLSI(14 subjects) course) Electromagnetic ...
- Signal Processing & Control(11 subjects)
 course) Linear Algebra ...
- Computer system(12 subjects)
 course) Computer network

	Requirements for Graduation				
	Required Credits Major Courses Elective Courses				
Single Major	130	60	70		
Plural Major	130	42	88		

* A certain level of English skill is required for graduation

3 Lab for undergraduate		
Major	multimeter(20), oscilloscope(38),	
Equipments	Function Generator(10), PC(30) etc	



Electrical Engineering

Major Programs

- Electrical Engineering Expertise Program
 Certified by ABEEK
- STS Courses
- Industry-academia cooperation program involving Samsung Electronics.
- KIAT/Hynix Semiconductor-sponsored
- Ministry of Education-sponsored

Requirements for Graduation Required Credits Major Courses Elective Courses Single Major 130 60 70 Plural Major 130 42 88

STS(Selective Track System)

- Intelligent robots(21 subjects)

 course) Signals and System ...
- Next-Generation displays(16 subjects) course) Introductory DSP Design ...
- Next-Generation Semiconductors (21 subjects)
 course) VLSI Design and Project ...

5 Lab	for	undergraduate
-------	-----	---------------

Major
Equipments

Training Kit, Generator, electrical transformer, NI-Elvis, PC etc..



^{*} A certain level of English skill is required for graduation

Computer & information Engineering

Major Programs

- ABEEK Computer Information Eng. Program
- Offering 'Samsung Information Communication Track' for customized education
- Diverse interdisciplinary major programs
- Participation at computer science-related international contents
- Undertaking international industry-university cooperation projects: Airbus, Korean Air & USC
- Projects toward a world major university(WCU)

	Requirements for Graduation Required Credits Major Courses Elective Courses			
Single Major	130	60	70	
Plural Major	130	42	88	

[※] A certain level of English skill is required for graduation

STS(Selective Track System)

- Software system(17 subjects)
 course) System Programming ...
- Internet & mobile computing(9 subjects)course) File Processing ...
- Multi-media system(15 subjects)course) Windows Programming...
- Embedded system(10 subjects)
 course) System analysis ...

3 Lab for undergraduate

	UNIVDD -
Major	Embedded System Design Set(20),
Equipments	Capstone Design Robot(40), PC(140) etc



Information & Communication Engineering

Major Programs

- ABEEK Program(12 major objectives)
- Basic Knowledge
 Data analysis and experiments
 Design capabilities
- 4 Problem-solving 5 Practical business tools
- © Teamwork ⑦ Communicating capability
- 1 Topic discussion 1 Occupational ethics
- 12 Internationalization

	Requirements for Graduation				
	Required Credits Major Courses Elective Courses				
Single Major	130	67	63		
Plural Major	130	45	85		

* A certain level of English skill is required for graduation

STS(Selective Track System)

- Multimedia and game software(9 subjects)

 course) Computer Graphics Design ...
- Embedded system and VLSI((11 subjects)
 course) Design of a Microprocessor
- Wired/Wireless communication(11 subjects)
 course) Signals and System

3 Lab for undergraduate

Major ROM Emulator(20), Robotic Invention System(24) oscilloscope(34) , Function Generator(27) etc..



■ English IT educational program (course)

- Will be newly introduced in 2014 for foreign students
- Inter-department program (undergraduate)
- A special mixed IT program ←
 - Core courses in the field of electrical, electronic, computer, information, and communication.
 - Internship at major Korean companies.
- Most of lectures in the program will be given in English
- Some lectures will be provided by e-learning courses

Graduate school(Master's Degree)

Student Enrollment(2013.10.1)

Category	Master	Doctor	Total
Electronic Eng. (Information & Comm. Eng.)	126	100	226
Electrical Eng.	27	23	50
Computer & Info. Eng.	53	44	97
Total	206	167	373

Department

Department	estR)
Electronic Engineering	Electrical Engineering
Computer & Information Engineering	Information & communication Engineering
Inter-Department	16/
Program in Robot Engineering	Program in IT & Media Convergence Studies

Scholarship(For foreign students)

Title	Contents of Scholarship	Note
JungSeok International Scholarship	Full or Half tuition waived (There may be change in the amount of Scholarship according to the result of evaluation)	Qualified students who have excellent grades for admission are allowed to receive
Assistantship Scholarship	KRW 500,000~1,450,000 won /a semester	Appointed by individual department
Research Allowance	Depend on the PJT	Participate in certain research PJT

Graduate school (Master's Degree)

Key Research Topics in the IT College

1. Next Generation Multimedia

Sensors, signal and image processing, computer graphics, network, QoS

2. Entertainment/Edutainment Robot

Control, computer graphics, sensors, signal processing, embedded system

3. Programming and Simulation Environment for Intelligent Robot

Robot PSE, DB, algorithm, LINUX, movement and manipulation

4. Low Carbon Green Energy Generation

Energy, solar cell, power management and distribution, renewable energy

5. Intelligent LED Application

Semiconductor, packaging, energy, marine and farming

6. Micro/Nano Process

MEMS, bio-electronics, semiconductor, information display, photonics, IC, optics

7. RFID/USN on IT based Fusion

Nnetwork, BcN, wireless communication, MEMS, logistics, IPv6

8. Next Generation Avionic Telecommunication

Wireless communication, network, signal processing, control

9. Embedded Systems:

Embedded system, computer vision, super computing, modeling

10. Neural Interface System

Biomedical engineering, signal processing, neurology device, semiconductor, cyber-kinetics



Research Funds

[Unit: US \$1,000]

Research Funds			2012			
Research Funds	PJT	Funds	%	PJT	Funds	%
Government	98	12,749	83%	114	12,161	84%
Non-Government	48	2,605	17%	45	2,235	16%
Total	146	15,354(229/Person)	100%	12	14,396(212/Person)	100%

Research Centers

		Optics and Photonics Elite Research Academy
		Center for Photon Information Processing
1		Intelligent GIS Research Center
ı		Computational Electronics Center
ı	C	Ultra Wide Band Wireless Communication Research Center
ı	Government	Intelligent Ubiquitous Logistics Technology Team – BK21 program
ı		Super Intelligent Research Center
100		Research Center for Next-Generation High Voltage of Power Technology
		Center for Supporting Start-up Companies
1		RFID/USN National Research Lab
ı	Industry	Ultra Precision Measurement Center for Optical Devices
-		IT New Technology Research Institute
ı	T Indiana waitea	Research Institute of Semiconductor and Thin Film Technology
ı	University	Institute for Information and Electronics research
ı		Laboratories of Computer Science Application
7		ERSITY
		oi I Y

Acamemic Laboratory (1)

Electronics Engineering

Laboratory
Multimedia Lab
Computer Architecture Lab
Nano Electronics Lab
Microwave Avionics Lab
Analog Circuit Design Lab
Nano Physics Devices Lab
Information Display Lab
System Integrated Circuit Design Lab
Intelligent Embedded System &
Software Lab
Mobile Telecommunication Research
Lab
Wireless Mobile Communication Lab
Biological Information System
Engineering Lab
Applied Electromagnetic Lab
Inha Micro/Nano Devices and
Systems Lab
Control Engineering Research Group
Digital Media Systems Lab

Electrical Engineering

Laboratory
Intelligent Control Lab
Control and Information System Lab
Power Electronics Lab
High Voltage Electronics Lab
Intelligent Robot Control Lab
High Speed Electronics Lab
Energy Conversion Lab
Laser Lab
Plasma Display Lab
Center for Photon information
processing
Hybrid electronic Device Lab
Embedded Control Lab
Power System Lab



Acamemic Laboratory (2)

Computer and Info. Engin.

Laboratory
Programming Environments Lab
Database Lab
Human Computer Interaction Lab
Computer Security Lab
Intelligent E-Commerce Systems Lab
Intelligence Technology Lab
Database and System Integration Lab
Biocomputing Lab
Web Database Lab
Media Lab
Software Engineering Lab
HCI Lab
Information Security Research Lab
Computer Network Lab
Theory of computation Lab
Intelligent Mobile Lab
Ubiquitous Computing Security Lab
Embedded Real Time System Lab
High Performance Computing System Lab
Image Informatics Lab

■ Information and Comm. Engin.

SoC Design and System Application Lab Optical Communications Network System Lab Wireless Networks and Communication Systems Intelligent Icformation Processing systems Lab Nano Semiconductor Engineering Lab
Optical Communications Network System Lab Wireless Networks and Communication Systems Intelligent Icformation Processing systems Lab
Wireless Networks and Communication Systems Intelligent Icformation Processing systems Lab
Intelligent Icformation Processing systems Lab
Nano Semiconductor Engineering Lab
Wireless Transmission Lab
Optoelectronics Lab
Computer Vision Lab
Imaging System Lab
Internet Security Lab
Knowledge Management System Lab
Embedded Computing Lab
Photonic Integrated Circuit and Quantum Device
Multimedia Network Lab
Digital VLSI and SoC Design Lab
Wireless Communication Research Lab
Image Media Lab
Ubiquitous Computing Lab
Communication System Lab
:



Industry-University Cooperation Customized education course

Samsung
Electronics
(1)Samsung
Talent Program
(2) Samsung
Software Track

LG Display (LGenius Program)

LG Electronics
(LG customized education program]

SK Hynix
(Hynix customized education Program)

Provide Students with customized education



International Cooperation

- Exchange of teachers and students
- Educational programs, materials
- Scientific Developments
- Organizing joint faculties



End of Documents



