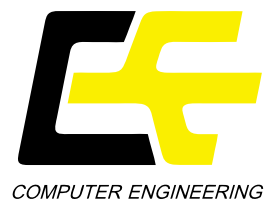




# COMPUTER ENGINEERING ITS



## Visit Us!

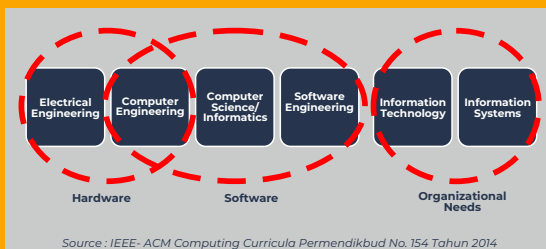
Computer Engineering Department  
Institut Teknologi Sepuluh Nopember  
B and C Building  
ITS Campus Sukolilo, Surabaya  
Phone/Fax : 031-5922 936

Faculty of Intelligent Electrical and Informatics Technology  
Institut Teknologi Sepuluh Nopember

## Where Creativity Meets Future Technology

### About Us

ITS Computer Engineering is one of the departments under the ITS Electrical Technology Faculty. Previously, the name of this department was the Department of Multimedia and Network Engineering which changed due to changes in ITS status as Autonomous University. The name change does not change the accreditation status A of this department.



Computer Engineering also studies large-scale data processing, network and data security, and Multimedia Computing.

### Employment

Employment in the field of:  
Embedded Firmware industry, IoT industry, System / Network Administrator, Telecommunications Operators, ICT related industries (Information and Communication Technology, Network Engineers (Internet, Cloud, IoT), Game and media industries, ICT solution developers, Application Programmers (Mobile) , System Integrator, Software House, Banking industry, Civil Servants, National and international companies.

### Facilities

High-speed internet, Wi-fi, Humanoid Robot, Industrial Robot, Mobile Robot, Motion Capture, 3D Screen, 3D Sensor, Virtual Reality, Mixed Reality, Deep Learning GPU. These facilities are provided in the lecture hall, Lab. Multimedia Computing, Lab. Telematics, Lab. Digital Signal Processing, Lab. Human Centric System, and Lab. Computer and Machine Vision. There is also a mosque / mosque, library, canteen, parking, sports facilities and arts that are comfortable and free to use.

### International Collaboration

#### 1. Double Degree

ITS Computer Engineering Department has a Double Degree program with Saxion University, The Netherlands (Netherlands). The Double Degree Program will be expanded with the Shibaura Institute of Technology, Japan (Japan) after 2020.

#### 2. Student Exchange/ Non-Degree Program/ Research Internship

ITS Computer Engineering Department students have the opportunity to participate in Student Exchange (Non-Degree Program) and Research Internship programs with several universities: Saxion University (Netherlands), Shibaura Institute of Technology (Japan), Kumamoto University (Japan), Dankook University (Korea), Chung Ang University (Korea), King Mongkut's Thonburi University of Technology (KMUTT) Thailand, Hochschule Bremen (Germany), The Université Catholique de Lille (France).

ITS Computer Engineering teaches disciplines that combine software from the field of computer science with hardware from the fields of computer, electronics, and telecommunications to be applied to modern computing systems (Cloud Computing, Wireless Sensor Networks, IoT / Internet of Things, Wearable Devices, and Embedded Systems) and on equipment controlled by computers and networks from smart devices, and Robotics.

### Courses

Learning at the ITS Computer Engineering Department includes:

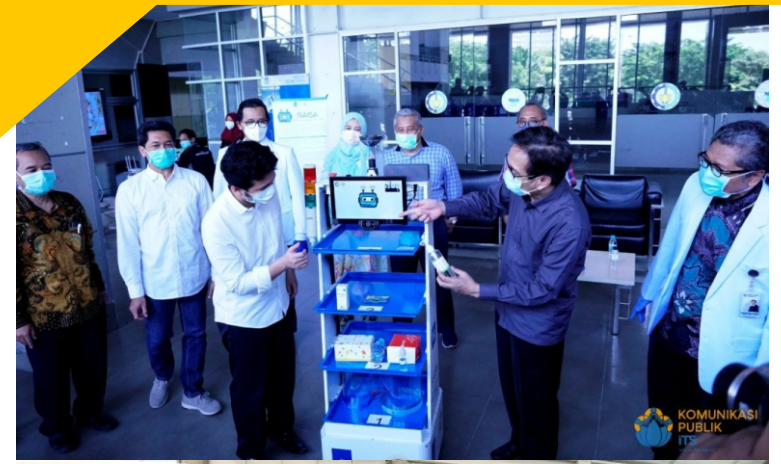
- Basic computer engineering competencies: Mathematics, basic electrical engineering (programming, digital circuits, electrical circuits, telecommunications systems), entrepreneurs, religion, and communication skills, and foreign languages.
- The main competencies of computer engineering:
  1. Hardware: Embedded systems, robotics, microprocessor systems, microcontrollers and electronics.
  2. Software: Computer and system programming, cluster and multiprocessor computing, multimedia data processing, computer vision, database, image processing.
  3. Network and communication: Communication and computer networks, Internet of Things (IoT), wireless sensor networks, network engineering, network security.
  4. Artificial Intelligent (AI), Deep Learning and Big Data: Machine learning, soft computing and deep learning, computers and systems, cluster and multiprocessor computing, multimedia data processing.

### Student Achievements

- IRIS Robot: 2nd Place in the Indonesian Wheeled Soccer Robot Contest (KRSBI-B) in the Robot Contest Indonesia 2021
- 1st Place Eleven March International IoT Challenge 2021
- VIROSE-ITS Team: 1st Place in Singapore Robotic Games 2020 category of Humanoid Robot Competition in Singapore
- 1st Place in the Indonesian Region in the AWS HACKDAYS ONLINE 2020 Contest
- 3rd Place in the National Business Plan Competition for Higher Education in 2021

### Admission Procedure

Like other departments at ITS, the ITS Computer Engineering Department registration procedure consists of 3 types, namely State University Entrance Selection (SNMPTN), Joint State University Entrance Examination (SBMPTN) and the Partnership and Independent Program (PKM). Further information can be found at <https://www.its.ac.id/admission/>



scan me!

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