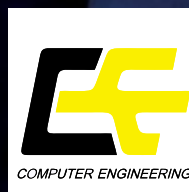# COMPUTER ENGINEERING ITS
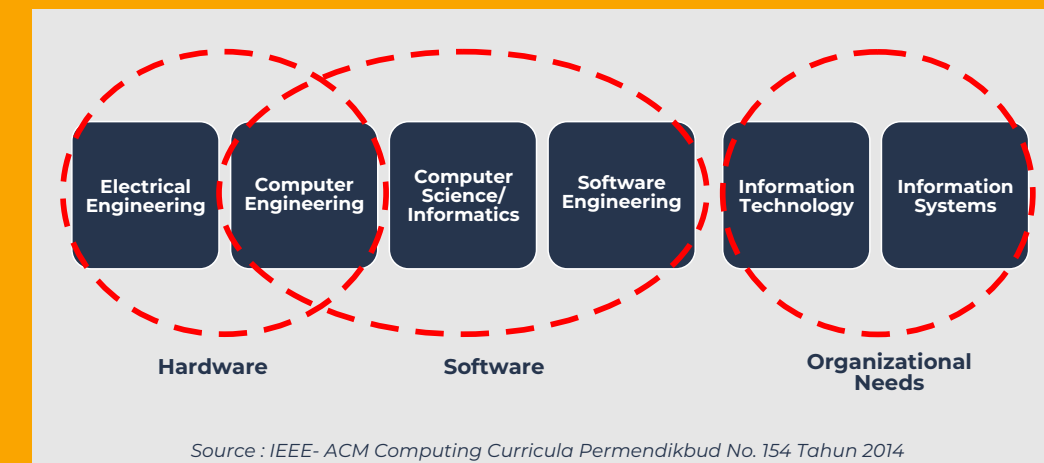
Faculty of Intelligent Electrical and Informatics Technology
Institut Teknologi Sepuluh Nopember

Where Creativity Meets Future Technology

Facility

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 classrooms and laboratories. The prayer room, library, canteen, parking area, sports facilities, and art facilities are available free of charge for students.

Registration Procedure

Computer Engineering ITS admission is based on the National Selection for State University Entrance (Seleksi Nasional Masuk Perguruan Tinggi Negeri, SNMPTN), Join Selection for State University Entrance (Seleksi Bersama Masuk Perguruan Tinggi Negeri, SBMPTN), and Partnership and Independent Program (Program Kemitraan Mandiri, PKM). Further information can be found at https://www.its.ac.id/admission/

Visit Us!

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

scan me!

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@ telematics@its.ac.id   🌐 https://www.its.ac.id/komputer

COMPUTER ENGINEERING

Courses, Jobs Opportunity, Achievements, International Cooperation

Courses

Courses at the Computer Engineering ITS include basic competencies in computer engineering, mathematics, basic electrical engineering, communication skills, and foreign languages.
The main competencies in Computer Engineering ITS are the following:

1. Hardware: Embedded Systems, Robotics, Microprocessor Systems, Microcontrollers, and Electronics.
2. Software: Computer and Systems Programming, Cluster and Multiprocessor Computing, Multimedia Data Processing, Computer Vision, Databases, and Image Processing.
3. Networks 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.

About Us

Computer Engineering ITS is under the Faculty of Intelligent Electrical and Informatics Technology (F-ELECTICS) ITS. Previously, Computer Engineering ITS was known as Multimedia and Network Engineering and changed recently during the change of ITS status as State Higher Education Institution of Incorporated Legal Entity (Perguruan Tinggi Negeri Badan Hukum, PTN-BH) and as a result of following Permendikbud No. 154, 2014. Computer Engineering ITS gained the A Accreditation from National Accreditation Board for Higher Education (Badan Akreditasi Nasional Perguruan Tinggi, BAN-PT) and from Accreditation in Engineering Computer Sciencies Natural Sciences Mathematics (Akkreditierungsagentur für Studiengänge der Ingenieurwissenschaften, der Informatik, der Naturwissenschaften und der Mathematik, ASIIN) for our three laboratories which is Robotics and intelligent systems, Multimedia Internet of Things, Telematics and Intelligent Multimedia.

| Electrical Engineering | Computer Engineering | Computer Science/ Informatics | Software Engineering | Information Technology | Information Systems |

Hardware   **Software**   **Organizational Needs**

Source : IEEE- ACM Computing Curricula Permendikbud No. 154 Tahun 2014

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

Jobs Opportunity

Jobs Opportunity for Computer Engineering ITS graduates are the following:
Embedded Firmware Industry, IoT Industry, System/Network Administrator, Telecommunication Operator, ICT-related industry (Information and Communication Technology, Network Engineer (Internet, Cloud, IoT), Game Industry and media, ICT solution developer, Application Programmer (Mobile), System Integrator, Software House, Banking industry, Civil Servant, and National and international companies.

International Cooperation

1. Double Degree

The Computer Engineering ITS has a Double Degree Program with Saxion University, Netherlands.

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

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