



FACULTY OF ENGINEERING

# S1 - PROGRAM ELECTRICAL ENGINEERING

## Competence

Department of Electrical Engineering is designed to have two competencies (hard skills and soft skills). The hard skill involves two major competencies:

- Competence in industrial application, i.e. ability to apply the discipline in industries.
- Competence in robotic mechatronic, i.e. ability to apply the discipline in robotics and mechatronics.

In addition, students should also develop their soft skills such as a good understanding of community life, good personality, leadership, and analytical skills.

## Curriculum

To graduate, students need to complete 144 credits in about four years, which includes classes attending, doing assignments, computing simulation, experimentation, practicum, field work, community service learning, and doing the final project presentation as well as examination.



## Laboratory Practices

- Practical Electronics
- Measurement and Electricity Network
- Basic Telecommunication
- Electricity Energy Conversion
- Electronic
- Basic Control System
- Digital
- Operation System
- Microprocessor
- Industrial Electronics
- Electrical Movement
- Electronic Power
- Robotic
- Mechatronic
- Hardware and Programming

## Achievements

Electrical Engineering students were awarded a gold medal in the Student Creativity Week in Muhammadiyah Malang University, the most favorite team in Student Creativity Week in 2010. They also awarded as the winner of Robot Contest in 2010-2012 and the first national winner in *Sang Penemu* (The Inventors) held by National Television-TVRI

Lecturers received a Research Grant from the Ministry of Research and Technology

## Career Opportunities

The program offers employment opportunities in many sectors, including major private, state and multinational company.



