Department of Electrical Engineering Computer, Control and Elelectronic Engineering Sub-Study Program

CONTROL SYSTEMS and INSTRUMENTATION Laboratory



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Department of Electrical Engineering Structure

Electrical Engineering Study Program:

- Electrical Energy Engineering Sub-Study Program (undergraduate+graduate)
- Telecommunication Engineering Sub-Study Program (undergraduate + graduate)
- Computer, Control and Electronic Engineering Sub-Study Program (undergraduate + graduate)
- Information and Communication Technology Sub-Study Program (graduate only)
- Computer Engineering and Network (3 year diploma program)
- Other Diploma Programs in cooperation with external parties.

Informatic Engineering Study Program:

(to be established in the near future)

Supporting Laboratories

Electrical Engineering Study Program:

The Computer, Control and Electronic Engineering Sub-Study Program is supported by "3 in 1" laboratories:

- Computer Laboratory
- Control Systems and Instrumentation Laboratory
- Electronic and Devices Laboratory



Control Systems and Instrumentation Laboratory

VISION:

To be a leading

ROBOTICS and Process CONTROL TRAINING and RESEARCH CENTER

..... in the country

Mission Statement:

- 1. Education: Teaching and Learning
- 2. Training: Industrial Community Services
- 3. Research: Contribution to Science and Technology Advances

What's available?

- Rooms (shared with Computer Laboratory):
 - 1 large room for laboratory courses
 - 1 lecturer room
 - 1 storage and technician room
 - 1 small room for research on Robotics
- Staff (shared by 3 laboratories: 3 in 1):
 - 2 laboratory technicians
 - 10 lecturers (4 studying overseas: 2 in Japan, 1 in Germany, 1 in Australia)
 - 1 foreign lecturer, a German volunteer

- Students (currently working):
 - 1 Ph.D. student, research on: *Process*Control Technology
 - at least 3 MS and BS students, research on: Microcontroller and Robotics
 - 20-30 students taking laboratory courses (BS and MS students) every semester



Supported Courses:

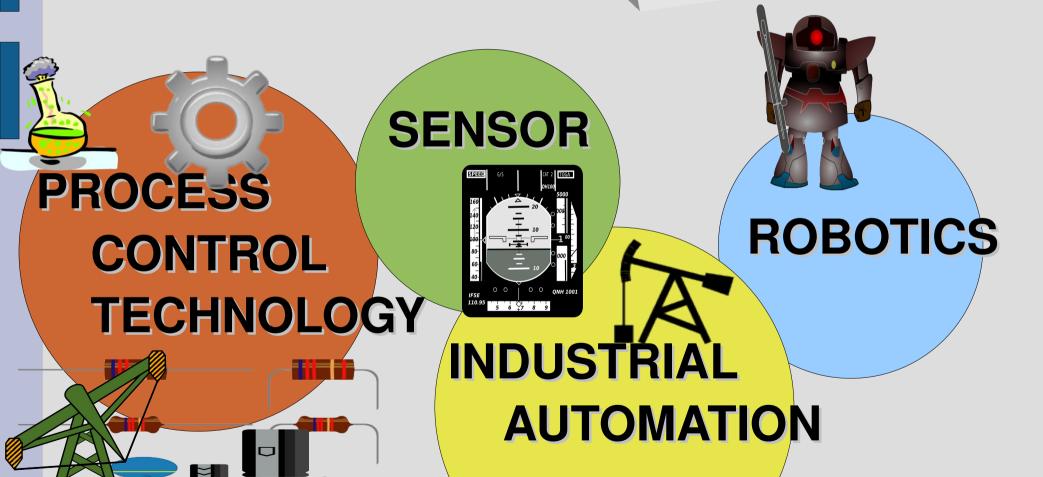
- Control Systems (Odd Semester)
- Digital Control Systems (Even Semester)
- Control System Design (Odd Semester)
- Industrial Automation (Odd/Even Sem.)
- Industrial Robotics (Even Semester)
- Electronic Instrumentation Systems (Odd Semester)
- Special Topics in Control Engineering (Every semester)
- Laboratory Course for MS students (Odd Semester)

Laboratory Equipment (for teaching and learning purposes):

- 1 unit Programmable Logic Controller (PLC) –
 Alan Bradley
- 4 units 8031 Microcontroller Training Modules
- 2 sets of Servomotor Control Systems Training Modules
- 1 set LabView from National Instruments
- (shared with the Computer Lab.) PCs
- Self made equipment
- (shared with other labs) Measuring Equipment and Sensors for Instrumentation

FUTURE PLAN at the NEW CAMPUS

FOCUS FIELD of STUDIES:



If the only tool you have is a hammer -- everything looks like a nail. (Anonymous)