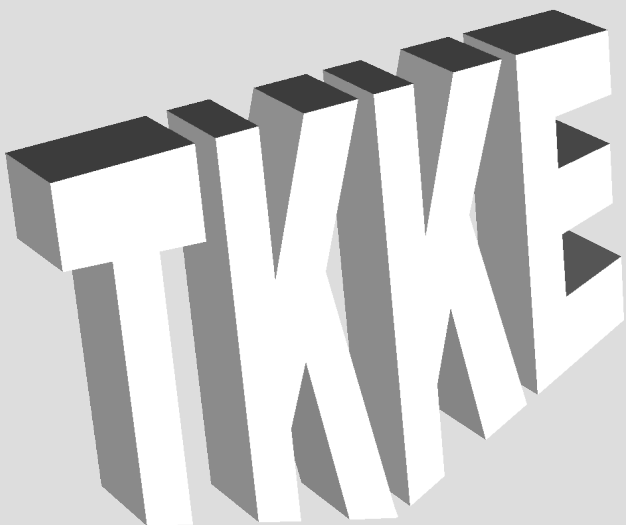


Department of Electrical Engineering
Computer, Control and Eleectronic
Engineering Sub-Study Program

KONSENTRASI Teknik KOMPUTER, KENDALI dan ELEKTRONIKA

Chairman: Rhiza S. Sadjad

Staff: Tahir Ali,
Zahir Zainuddin,
Ingrid Nurtanio,
Christoforus Yohannes
A. Ejah Umraeni Salam
Muhammad Anshar
Andreas B. Vogel
Adnan
Muhammad Niswar
Amil Ahmad Ilham
Faizal Arya Samman



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:

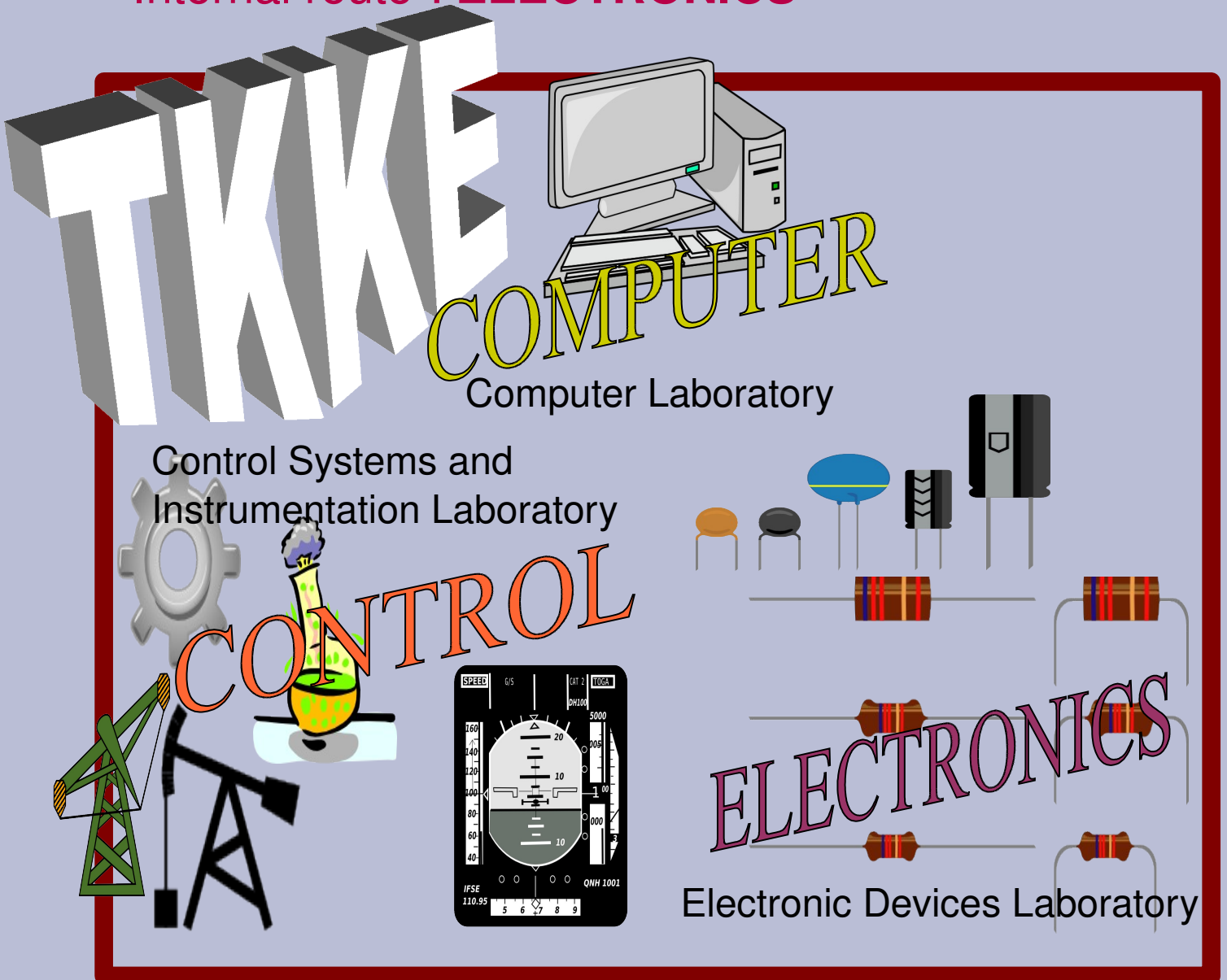
(First student enrollment August 2008)

NEW !!!

3 “study routes”:

The Computer, Control and Electronic Engineering Sub-Study Program facilitates 3 (three) “study routes” :

- Main route: **COMPUTER ENGINEERING**
- “External route”: **CONTROL ENGINEERING**
- “Internal route”: **ELECTRONICS**

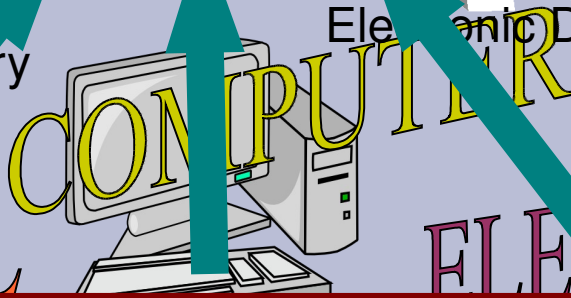


3 “study routes”:

TKJKE

SKRIPSI/SEMINAR

Computer Laboratory
Control Systems and Instrumentation Laboratory
Electronic Devices Laboratory



PERANCANGAN SISTEM

CONTROL COMPUTER ELECTRONICS

KENDALI

DIGITAL

ELEKTRONIKA

DASAR SISTEM KENDALI

DASAR ELEKTRONIKA

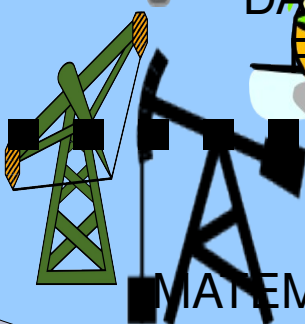
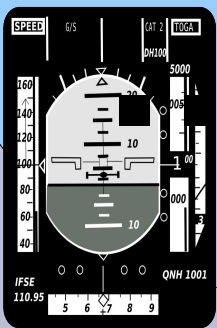
DASAR KOMPUTER
DASAR PEMROGRAMAN
RANGKAIAN LOGIKA

RANGKAIAN LISTRIK

PENGUKURAN LISTRIK

MATEMATIKA TEKNIK + FISIKA TEKNIK

KALKULUS + FISIKA DASAR

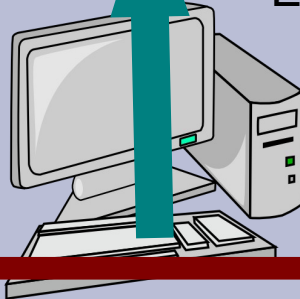


3 “study routes”:

FWWE

SKRIPSI/SEMINAR

Control Systems and Instrumentation Laboratory Computer Laboratory Electronic Devices Laboratory



PERANCANGAN SISTEM

KENDALI

DIGITAL

ELEKTRONIKA

SISTEM KENDALI DIGITAL
OTOMASI INSUSTRI
SISTEM KENDALI
TEKNOLOGI KENDALI PROSES
SISTEM LINIER

ELEKTRONIKA DAYA
SIST. INSTRU. ELEKTRONIKA
TEKNOLOGI IC
ELEKTRONIKA DIGITAL
ELEKTRONIKA ANALOG

DASAR SISTEM KENDALI

DASAR ELEKTRONIKA

DASAR KOMPUTER
DASAR PEMROGRAMAN
RANGKAIAN LOGIKA



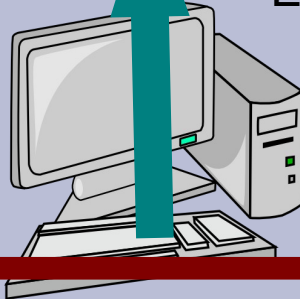
RANGKAIAN LISTRIK
PENGUKURAN LISTRIK
MATEMATIKA TEKNIK + FISIKA TEKNIK
KALKULUS + FISIKA DASAR

3 “study routes”:

TRWKE

SKRIPSI/SEMINAR

Control Systems and Instrumentation Laboratory Computer Laboratory Electronic Devices Laboratory



PERANCANGAN SISTEM

KENDALI

DIGITAL

ELEKTRONIKA

PENGOLAHAN ISYARAT DIGITAL (4->6)

SISTEM OPERASI KOMPUTER (6)

ARSITEKTUR KOMPUTER (5->6)

SISTEM MIKROPROSESSOR (5)

JARINGAN KOMPUTER (5)

TEKNIK DIGITAL (4)

ALGORITMA DAN STRUKTUR DATA (6->4)

DASAR KOMPUTER

DASAR PEMROGRAMAN

RANGKAIAN LOGIKA



RANGKAIAN LISTRIK

PENGUKURAN LISTRIK

MATEMATIKA TEKNIK + FISIKA TEKNIK

KALKULUS + FISIKA DASAR

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

CONTROL SYSTEMS and INSTRUMENTATION Laboratory

Head: Rhiza S. Sadjad, Ir., M.S.E.E., Ph.D
Asst. Head: A.Ejah U. Salam, ST, MT

The letters 'LSKI' are rendered in a large, white, 3D block font. They are positioned in the bottom left corner of the slide, casting soft shadows on the light gray background.

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**

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
 - 11 lecturers (4 studying overseas: 3 in Japan, 1 in Germany)
 - 1 foreign lecturer, a German volunteer

LSKI

- **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

LSKI

• **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)

LSKI

The logo for LSKI is positioned in the upper right corner of the slide. It consists of the letters 'LSKI' in a large, white, 3D block font with a grey drop shadow.

- **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

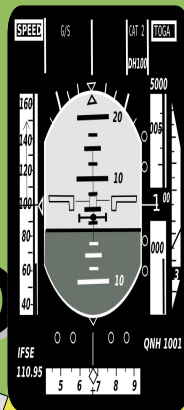
LSKI

FOCUS FIELD of STUDIES:



**PROCESS
CONTROL
TECHNOLOGY**

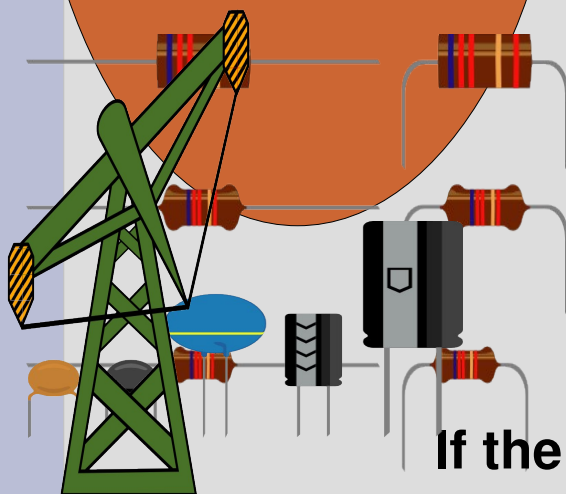
SENSOR



ROBOTICS



**INDUSTRIAL
AUTOMATION**



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