

SISTEM KENDALI

The background of the slide features a hand with a white glove interacting with a futuristic, glowing blue digital interface. The interface includes various icons, lines, and a world map, suggesting a global or technological theme. The overall color scheme is dominated by blue and white, with yellow and green text providing high contrast.

MODERN CONTROL
SYSTEMS

PENGANTAR

KONSORSIUM NASIONAL 1995

- Teknik Elektro (*Electrical Engineering*):
 - Teknik Tenaga Listrik (*Power Engineering*)
 - Teknik Telekomunikasi (*Telecommunication Engineering*)
 - Teknik Elektronika (*Electronics*)
 - Teknik Kendali (*Control Engineering*)
 - Teknik Komputer atau Teknik Digital (*Computer or Digital Engineering*)

TEKNIK KENDALI

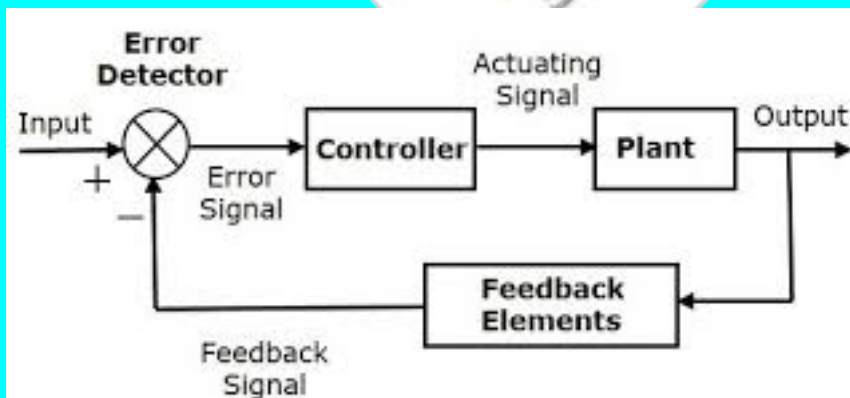
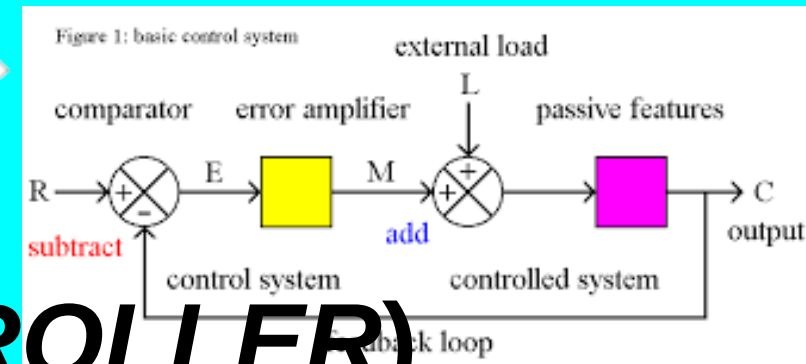
- Teknik Kendali (*Control Engineering*):
 - Mempelajari (Desain, Analisis, Pemodelan, Simulasi, Optimisasi)

SISTEM KENDALI

- Dipelajari juga di Program Studi
TEKNIK MESIN, TEKNIK KIMIA,
TEKNIK FISIKA

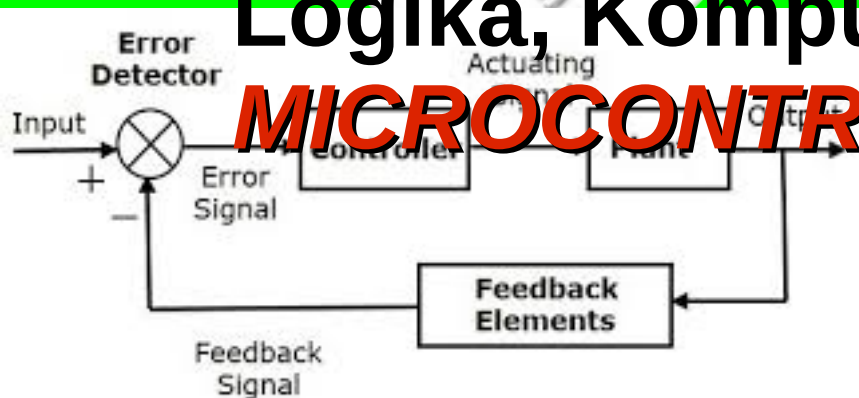
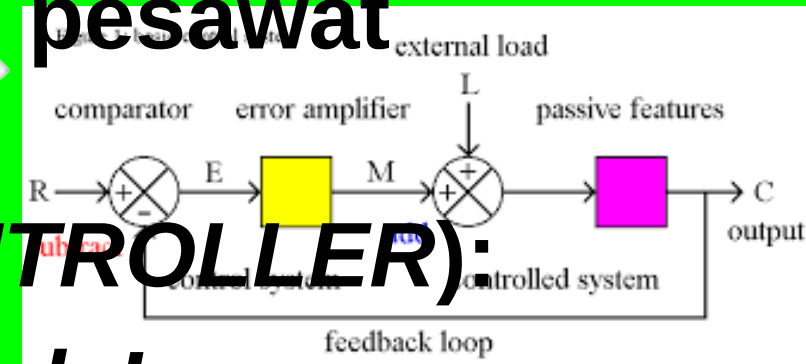
SISTEM KENDALI

- Sistem APA SAJA yang terdiri dari 2 (dua) bagian:
 - Kendalian (*PLANT*)
 - Pengendali (*CONTROLLER*)



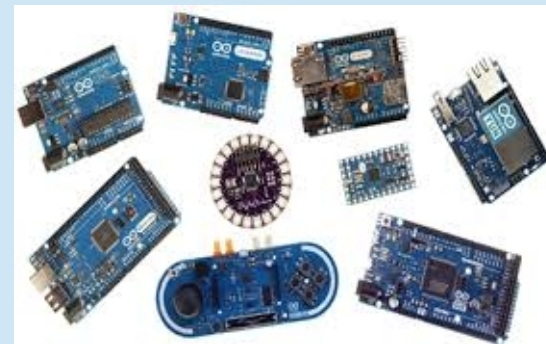
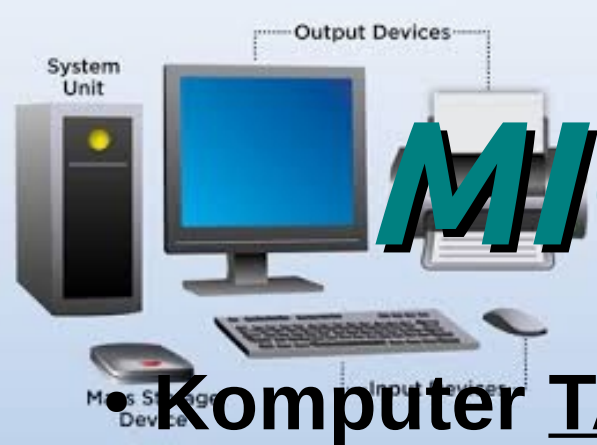
SISTEM KENDALI

- Contoh Kendalian (*PLANT*): PROSES di Industri, sistem otomotif, pesawat terbang, kapal, dll
- Contoh Pengendali (*CONTROLLER*):
 - Analog: *PID, Phase Lead, Lag*....
 - Digital: Gerbang Logika, Rangkaian Logika, Komputer, Jaringan Komputer, **MICROCONTROLLER** ---> **ARDUINO**



MICROCONTROLLER

- Komputer TANPA piranti antara (*interface*) dengan manusia, seperti *monitor*, *keyboard*, *mouse*, dll.
- Bagian2 penting:
 - *Processor*
 - *Memory*: ROM dan RAM
 - *Input/Output*: PORT
- Tambahan (internal atau eksternal): A/D-C dan D/A-C



The background of the slide is a collage of several Arduino microcontroller boards. These include standard Arduino Uno boards with their characteristic blue PCBs and USB Type-B ports, as well as smaller, more compact boards like the Arduino Pro Mini. The boards are arranged in a scattered, overlapping fashion, creating a sense of variety and abundance.

next

next

next

NEXT

ARDUINO microcontroller