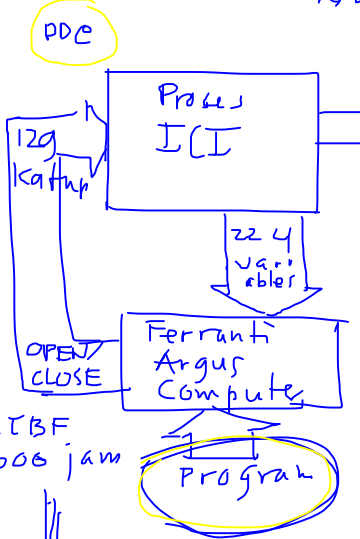


4 (empat) periode sejarah perkembangan SISTEM KENDALI DIGITAL menurut Åström & Wittenmark [1984]

- * Jaman PERINTIS ~ 1955 → Texasco + TRW
- * Jaman DDC ~ 1962 → ICI + Ferranti Argus
- * Jaman MINIKOMPUTER ~ 1963
- * Jaman MICROCOMPUTER ~ 1972
- 1/4 1984 dari 1984 1/4 sekarang
- * Jaman MICROCONTROLLER
- * Jaman PLC → DCS → APC [~1985]
- selanjutnya: * NANO TECHNOLOGY → "Biologi"

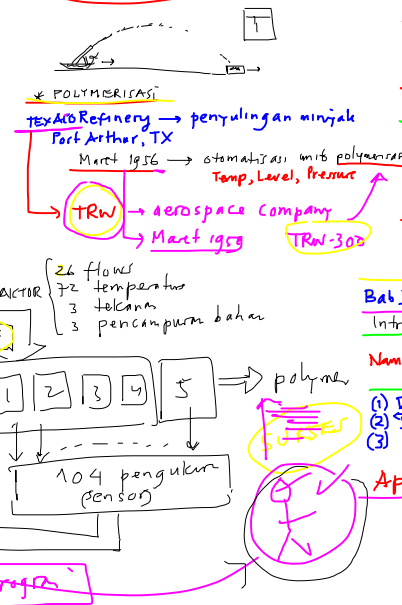


PLC = Programmable Logic Controller
 DCS = Distributed Control System ← LAN
 APC = Advanced Process Control

AI
 "Smart Tech..."

Sejarah SISTEM KENDALI DIGITAL

→ PDII (1939-1945)



MTBF: Mean Time Between Failures
 50-100 hours

"PROGRAM"

SISTEM KENDALI DIGITAL

- 2SKS 16x pertemuan (termasuk MID & FIN)
- 1SKS * Praktikum INDIVIDU
- * Praktikum KELOMPOK → LSK
- Course website: <http://www.unhar.ac.id/rhiza/amp/kuliah/>
- ⇒ Sistem Kendal Digital

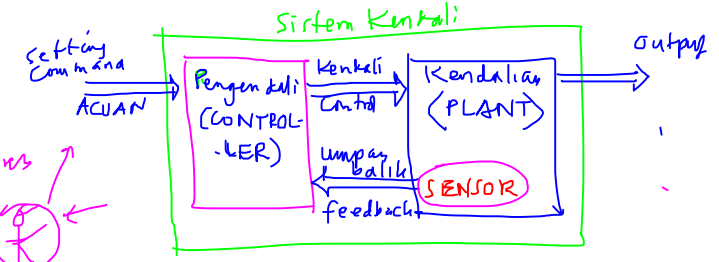
Referensi: "Computer Controlled Systems" [1984] Åström & Wittenmark

Penilaian: ⇒ [MID, FIN, Praktikum Kelompok, Praktikum Individu]

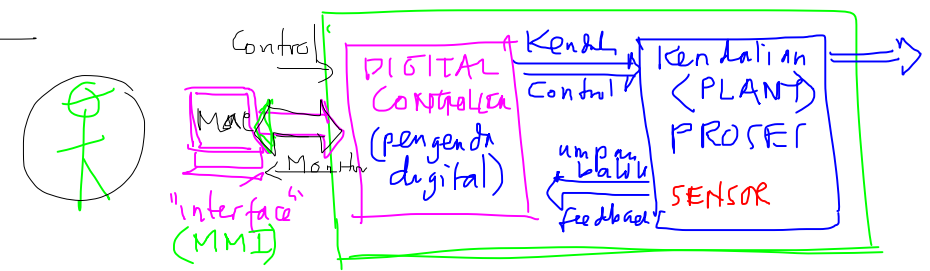
- Materi:
- * PENDAHULUAN: Intro to Digital Control Systems
 - * PEMODELAN Digital Control Systems Modelling
 - * Transfer Function
 - * State Space
 - * ANALISIS Digital Control Systems Analysis
 - * DESAIN Digital Control Systems Design

Bab I PENDAHULUAN
 Introduction to the Digital Control Systems
 Sistem Kendal Digital

- Nama Lain
- | English | Bahasa Indonesia |
|-----------------------------------|--|
| (1) Discrete-time Control Systems | Sistem Kendal Waktu Diskrit |
| (2) Sampled-Data Control Systems | Sistem Kendal Data Terapilke |
| (3) Computer-controlled Systems | Sistem (di) Kendal (kan oleh) Komputer |
- Apa itu SKD??



SISTEM KENDALI DIGITAL:



* Pengetahuan untuk mempelajari (SKD):

- (1) Pengetahuan ttg. PROSES
- (2) Pengetahuan ttg. Teknologi (Komputer) DIGITAL
- (3) Pengetahuan ttg. INSTRUMENTASI
- (4) Teori KENDALI