

Linear Systems

3 sks (Senin, 10.00-12.30)

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Tujuan

Memahami konsep:

Sinyal dan sistem linear

Kawasan waktu & frekuensi

Permasalahan sistem linear

Penggunaan *tools* sistem

matlab

Pokok Bahasan (*bu Esty*)

- Sinyal & Sistem
 - Sistem Waktu Kontinyu & Diskrit
 - Konvolusi
 - Deret Fourier & Transformasi Fourier
 - Transformasi Z
-
- The diagram uses blue curly braces to group the topics. The first brace, labeled **Q1**, encompasses the first three items. The second brace, labeled **Q2**, encompasses the last two items.

Pokok Bahasan (*pak Eka*)

- Analisis Frekuensi Domain
- Transformasi Laplace

} **Q3**

- Pengantar Filter
- State Space

} **Q4**

Referensi

- Chen, Chi-Tsong, ***Introduction to Linear System Theory***, USA: Holt, Rinehart and Winston, Inc., 2000.
- Kamen, E. & Heck, B., ***Fundamentals of Signals and Systems***. New York: Prentice Hall, 2000.
- Naresh K. S., ***Linear Systems***, Michigan: John Wiley & Sons, 1991.
- Alan, V.O. ***Signals and Systems***, Prentice Hall, Inc., 1997.

Nilai

NA = 20% Tugas + 30% Quiz + 50% UAS

- Penilaian berdasarkan Proses, bukan hasil
- Total 16 x pertemuan
- Kehadiran 80%
- Kerapian dan Kepribadian

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Lecture

[1] 2nd Mathematic (*Matematika II – TKE4012*)

 **Tujuan:** Memberikan pemahaman kepada mahasiswa tentang fungsi multi variabel dalam bentuk skalar dan vektor serta mampu mendiferensialkan

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