Metode Analis Geofisika MFG-2106 (Gasal 2022/2023)

Sudarmaji dan Afif Rahman, Geofisika FMIPA UGM

Silabus

- Pengenalan Signal dan Sistem Kontinyu dan Diskrit
- 2. Sistem linear time invariant kontinyu
- 3. Transformasi Laplace
- 4. Transformasi Laplace Balik dan Aplikasinya
- 5. Deret Fourier
- 6. Transformasi fourier analog dan aplikasinya

UTS

Silabus

- 1. Sistem linear time invariant diskrit
- 2. Transformasi Z
- 3. Transformasi Z balik dan Aplikasinya
- 4. Transformasi fourier diskrit dan aplikasinya
- 5. Mendesain dan menerapkan Filter Analog
- 6. Filter digital tipe FIR (Finite impulse response)
- 7. Filter digital tipe IIR (*Infinite impulse response*)

 UAS

Book's Reference

- Luis F. Chapparo, 2011, Signal and System Using Matlab, Elsevier
- Michael D. Adams, 2013, Continuous-Time Signals and Systems, University of Victoria, Canada
- Ingle, V.K. and Proakis, 2012, J.G., Digital Signal Processing using Matlab, Cengage Learning
- John G. Proakis and Dimitris G. Manolakis, 2007, Digital Signal Processing: Principles, Algorithms, and Applications, 4th Edition. Prentice Hall.
- Alex Palamides and Anastasia Veloni,2011, Signal and system laboratory with matlab, Taylor and Francis Group LLC., USA
- FRANK SCHERBAUM, 2001, OF POLES AND ZEROS, SPRINGER SCIENCE+BUSINESS MEDIA, B.V

Penilaian

No	Komponen	Persentase
1	UTS (Pribadi)	35%
2	UAS (Pribadi)	35 %
3	Tugas+absens	30 %
Total		100%