

SATUAN ACUAN PENGAJARAN (SAP)

1. Mata ajaran : Teknik Telekomunikasi (4 SKS)
2. Kode Mata Ajaran : EES 320801
3. Jenjang Pendidikan : S1
4. Program Pendidikan : Reguler
5. Dosen Pengajar : Ir. Muhamad Asvial, MEng, PhD
Penanggungjawab : Ir. Muhamad Asvial, MEng, PhD
Anggota : Ir. Hartono Haryadi, MPhil
6. Sistem Kelas : Paralel
7. Hari Kuliah : Senin dan Selasa
8. Tujuan Pengajaran : Memahami konsep teknik telekomunikasi, terminal, penyambungan, transmisi dan saluran
9. Metode Pembelajaran: Kuliah
10. Sistem Evaluasi : Tugas (15%), Ujian Tengah Semester (40), Ujian Akhir Semester (45%)
11. Buku Acuan/Ajar : (khusus modul untuk topik transmisi)
 - a. J.G. Proakis: Digital Communications, McGraw hill, New York 1995, Third Edition
 - b. L.W. Couch H: Digital and Analog Communication Systems, Prentice – Hall, NJ, 1997, Fifth Edition
 - c. H. Taub, D.L. Schilling; Principles of Communication Systems, McGraw Hill, Kogakusha, 1971.

Depok, Februari 2009
Dosen Penanggungjawab

Ir. Muhamad Asvial, MEng., PhD
NIP: 132 094 574

SATUAN ACUAN PENGAJARAN (SAP)

Semester Genap 2009

Minggu ke	Pokok Bahasan	Media	Tugas	Dosen
1	Introduction to Modulation Technique	LCD		MA
2	Amplitude Modulation (AM) & DSBAM	LCD		MA
3	AM Demodulation	LCD		MA
4	SSBAM and Vestigial Side Band (VSB) Modulation	LCD	Ass. I	MA
5	Angle Modulation: Frequency Modulation (FM)	LCD		MA
6	Angle Demodulation: FM Demodulation	LCD		MA
7	Information Theory: Berger Diagram & Channel Capacity	LCD	Ass. II	MA
8	Ujian Tengah Semester			
9	Information Theory: Sufficient Statistic, Error Probability and Detection Signals	LCD		MA
10	Digital Modulation: Digital Transmitted Signal and Error Probability	LCD		MA
11	BPSK Modulation: Error probability and Average Energy	LCD		MA
12	4-PSK, QPSK and Offset-QPSK: Error Probability	LCD	Ass. III	MA
13	Quadratur Amplitude Modulation (QAM)	LCD		MA
14	Frequency Shift Keying (FSK)	LCD		MA
15	Resume and Exercise in Class	LCD	Ass. IV	MA
16	Ujian Akhir Semester			