

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 | | | |

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



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