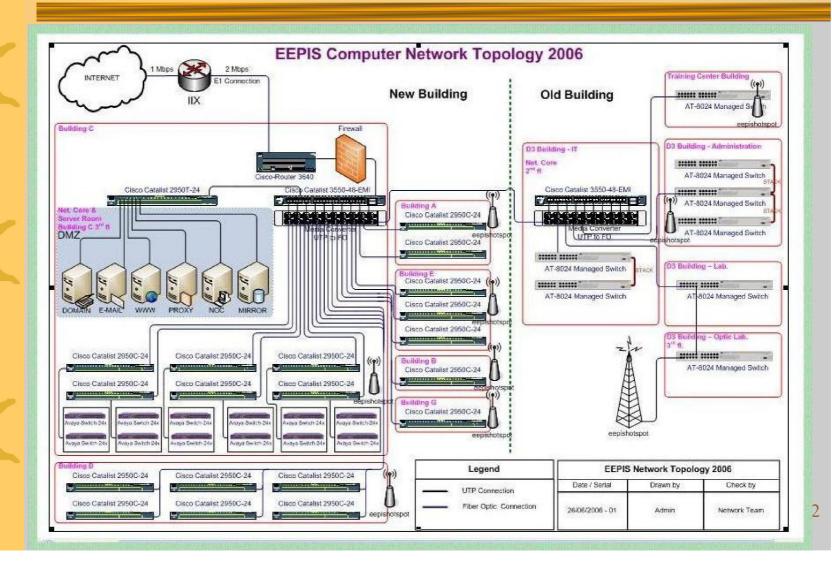


Komunikasi Data 3 Jam / Minggu

Muhammad Zen Samsono Hadi, ST. MSc. Lab. Telefoni Gedung D4 Lt. 1

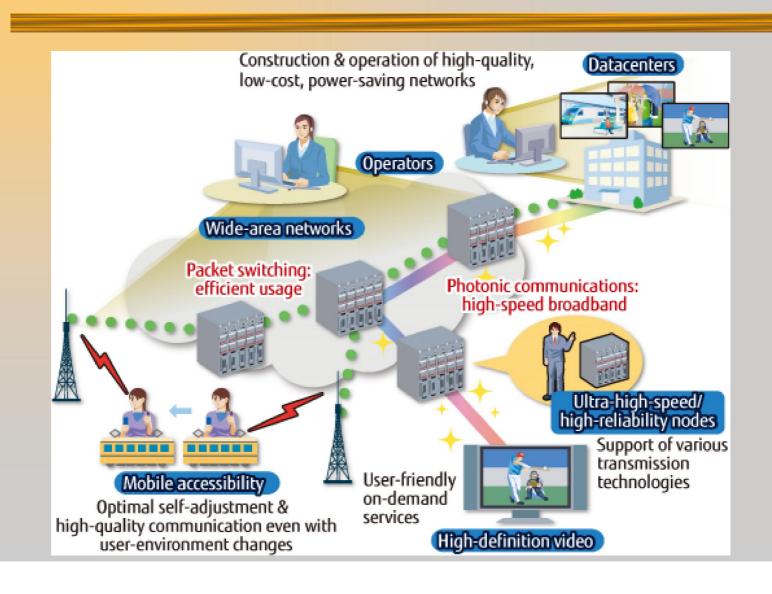


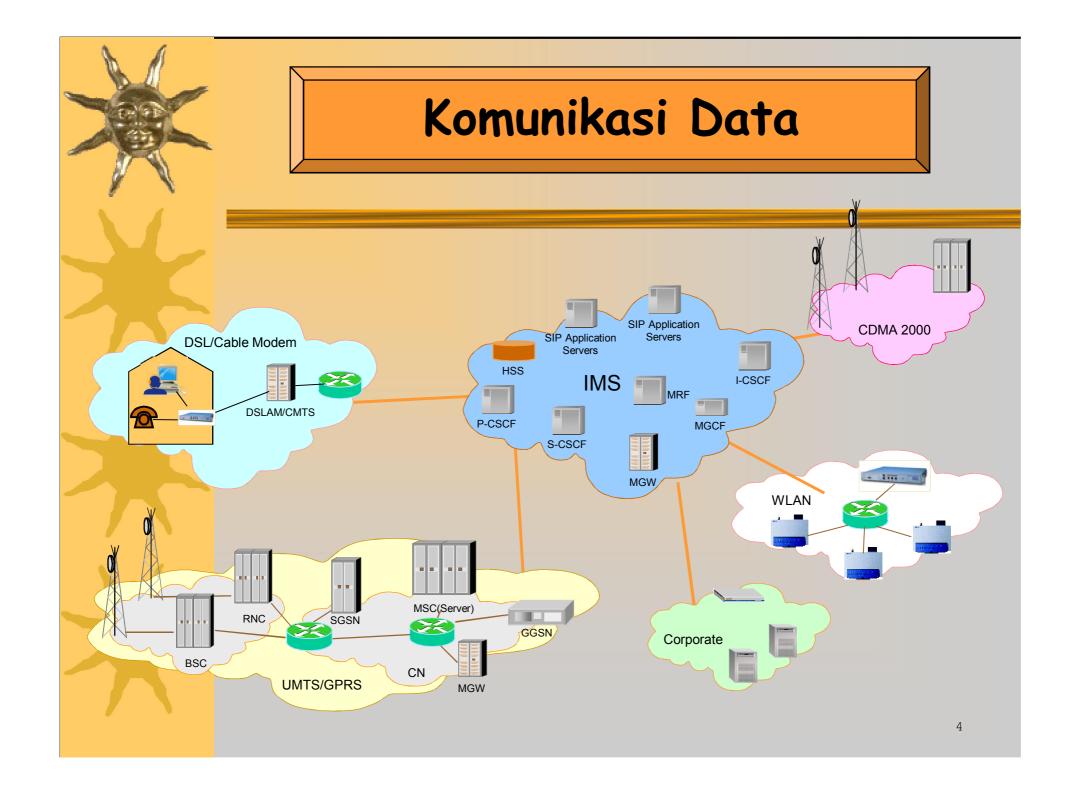
Komunikasi Data





Komunikasi Data







1. PENGANTAR KOMUNIKASI DATA

Transmisi serial dan Paralel
Transmisi Data Sinkron & Asinkron
Data Coding
Full-Duplex & Half-Duplex
Standarisasi

2. TEKNIK KOMUNIKASI

Jalur Transmisi Rangkaian Two-wire dan Four-wire Sinyal data Digital Modulasi Digital



3. MEDIA TRANSMISI

Media Transmisi Guided

Media Twisted Pair

Media Koaksial

Media Fiber Optik

Media Transmisi Unguided

Media Transmisi Terrestrial

Media Transmisi Radio melalui Satelit

4. TEKNIK INTERFACING

Interface Paralel Centronics

Interface V24 dan EIA232

Null Modem

Interface EIA422

Modem

- Prinsip Kerja Modem
- Jenis Modem
- Komunikasi Data Jarak Pendek



5. MULTIPLEXING

Time Division Multiplexing
Character Interleaving
Multiplexer Switching
Kompresi Data

6. DATA LINK CONTROL

Flow Control
Pendeteksi Kesalahan
Pengontrolan Kesalahan
High-Level Data Link Control

7. TEKNIK SWITCHING

Konsep Switching
Jenis switching: Jaringan Circuit-Switching dan Packet
Switching
Routing pada Packet Switching



8. PROTOCOL

Pengertian Dasar Protocol Protocol Bisynch Protocol HDLC

9. OSI REFERENCE MODEL

Physical Layer
Data Link Layer
Network Layer
Transport Layer
Session Layer
Presentation Layer
Application Layer



10. LOCAL AREA NETWORK
Topologi
LAN Token_Passing
LAN Ethernet
FDDI
Server
Peer-to-peer Network
Inter-networking
LAN Broadband



Penilaian

*Penilaian

Tugas/quiz30%

- UAS 40%

- UTS 30%

★Max terlambat 15 menit dari pelajaran dimulai



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