



Teknologi Informasi dan Pembelajaran

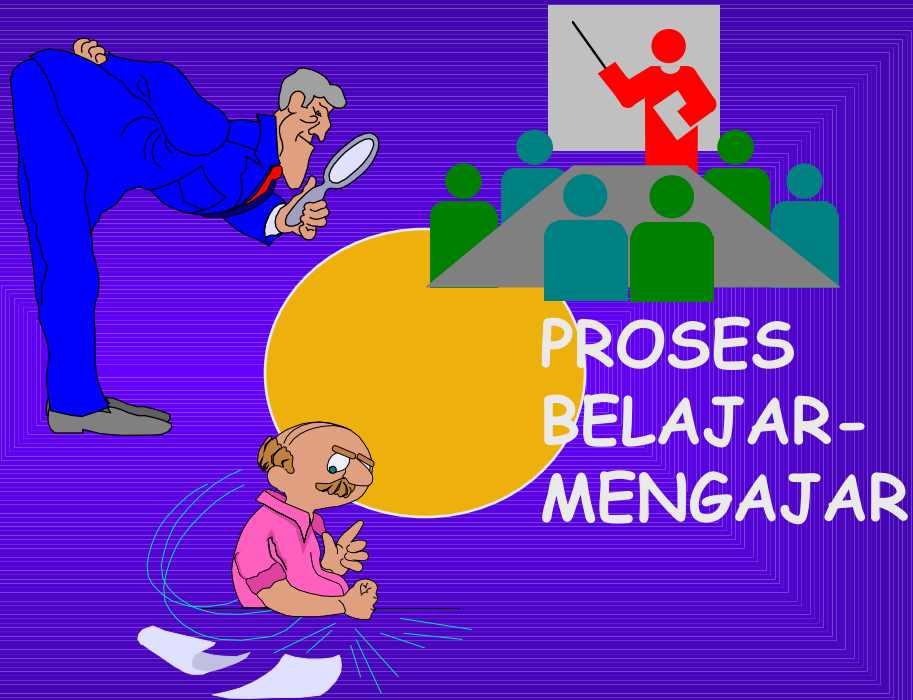
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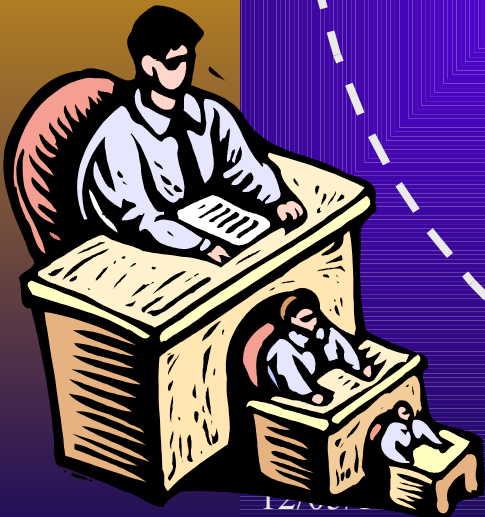
<http://www.unhas.ac.id/~rhiza/>

Jurusan Teknik Elektro Fakultas Teknik
UNIVERSITAS HASANUDDIN Makassar

PENDIDIKAN ???



Pendidikan:
FORMAL
INFORMAL
NON-FORMAL





Topik DISKUSI:

Pergeseran PARADIGMA Proses BELAJAR-MENGAJAR

- ♦ dari PENGAJARAN ke PEMBELAJARAN
- ♦ *from TEACHING to LEARNING*
- ♦ *from TEACHER-oriented to STUDENT-centered*
- ♦ *from INSTRUCTIONAL to EDUCATIONAL Technology*

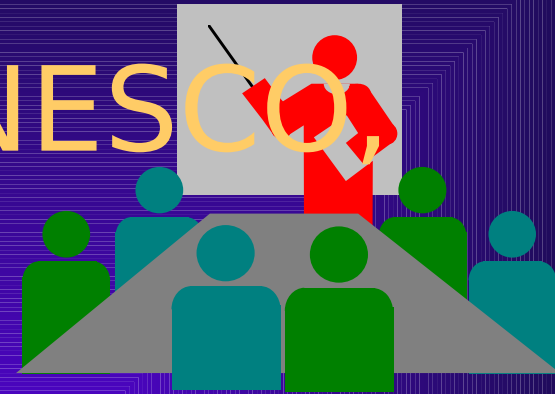


Teaching is
about providing
opportunities for students
to learn

Jones, ed. . [2000], “CURRICULUM DEVELOPMENT, S1 Engineering Programs in Indonesia”, page 22

..... to learn WHAT ?

The Four Pillars (UNESCO, [1996]):





The 4 (four) pillars of LEARNING:

- **Learn to KNOW – how to learn**
- **Learn to DO – the learning process**
- **Learn to BE – the BEST learner**
- **Learn to LIVE TOGETHER – to learn even more**



PROSES PEMBELAJARAN

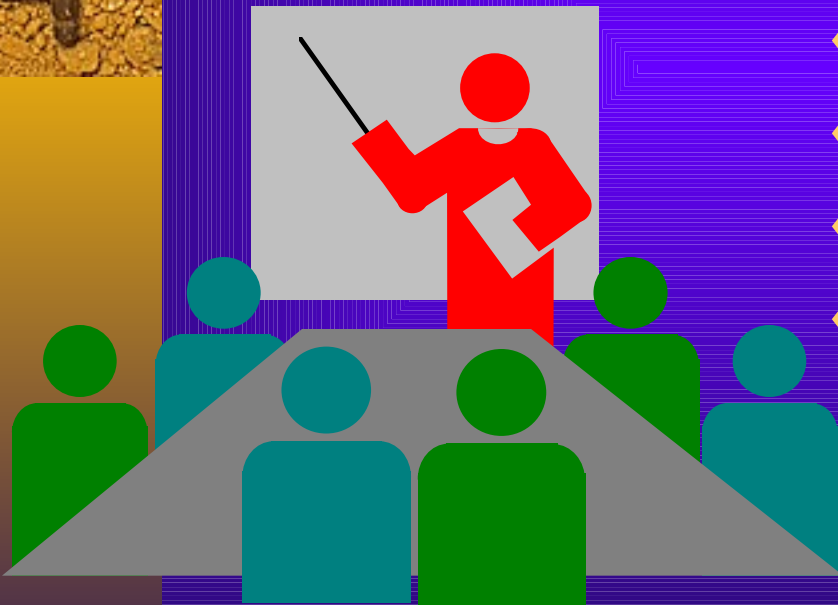


2 (dua) kategori:

- proses pembelajaran di kelas (*classroom courses*) melalui tatap-muka yang dijadwalkan secara reguler dalam semester-semester
- non-kelas (*non-classroom courses*), yang tidak terjadwal secara reguler, misalnya matakuliah Seminar, Kerja Praktek, Praktikum, Skripsi, Praktek Lapang, Kuliah Kerja Nyata, dan lain-lain.

Teaching Formats (examples):

- ◆ MASTER-APPRENTICE
- ◆ STUDY CIRCLE (TUTOR-NOVICE)
- ◆ TALK and CHALK
- ◆ SPEECH
- ◆ PRESENTATION
- ◆ DRILL (PRACTICE, TEST, EXAM)

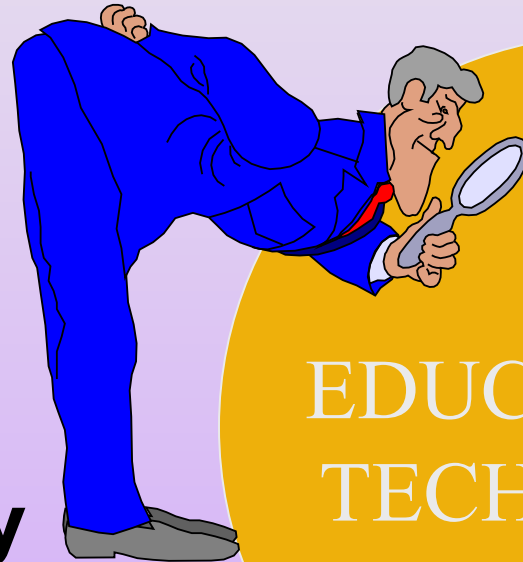


Teaching is a SKILL !



- ◆ **Talent**
- ◆ **Knowledge**
- ◆ **Experience**
- ◆ **Style**
- ◆ **Technique**
- ◆ **Methodology**
- ◆ **Means**
- ◆ **Tools**
- ◆etc.
- ◆ **Aids**

.....**TECHNOLOGY**



EDUCATIONAL
TECHNOLOGY



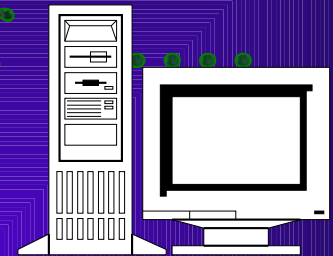
Today's Situation

◆ All kinds of HI-TECH stuffs

COMPUTER

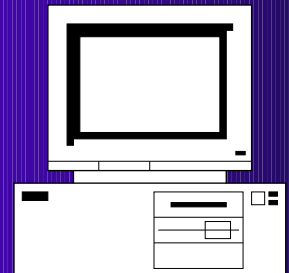
Computer
Computer

Computer

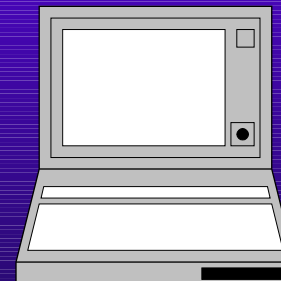


IBM Com patible

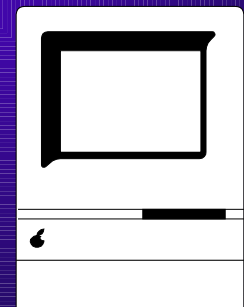
- Mesin Ketik Canggih?
- Alat HIBURAN: Games, VCD?
- Lemari ARSIP?
- Alat KOMUNIKASI?
- Alat Bantu ADMINISTRASI?



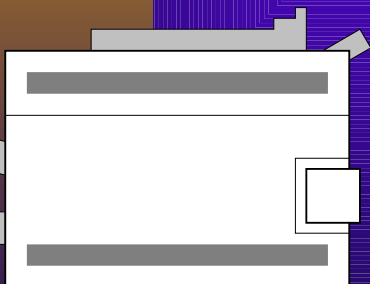
IBM Com patible



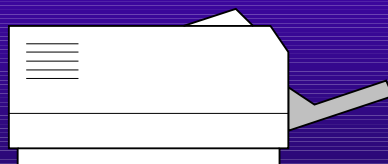
Laptop computer



Mac Classic



IBM laser printer



Laser printer



ALTERNATIF ???

- ◆ Pendidikan alternatif ???
- ◆ Sekolah alternatif ???
- ◆ Macam-macam:
 - *School on Internet*
 - *School ON-LINE*
 - *Virtual University*
 - *E-Learning*
 - *dan lain sebagainya*



Internet-based learning:

<http://www.outsource2india.com/LearningSolutions/articles/InternetBasedLearning.asp>

The education and training sector has recognized the emerging power of the Internet and this has helped breakdown the traditional barriers of time and place for the delivery of education. Trends that show that this is true:

- * developing hybrid modules that can be accessible with an Internet browser.
- * using HTML editors and common web publishing tools to post class notes, etc on Intranets or the Internet
- * developing media-rich, just-in-time support systems to distribute knowledge
- * offering entire credit courses using Internet technologies.
- * developing advanced learning environments that combine powerful Internet collaboration tools



CONTOH:

http://atschool.eduweb.co.uk/trinity/int_lr.html

Internet Learning Resources:

[/home/rhiza/Desktop/pembelajaran/learning-res](#)



Kesepuluh *flagship* : (ABG = Academia-Business-Government):

Materi Diskusi APTIKOM/Vittakara [2008], hal 22
[http://www.unhas.ac.id/rhiza/arsip/INFORMATIKA-ELEKTRO/
file: prAptikom-eLearningv2.pdf](http://www.unhas.ac.id/rhiza/arsip/INFORMATIKA-ELEKTRO/file:prAptikom-eLearningv2.pdf)

E-Learning

E-Curriculum

E-Book

E-Conference

E-Collaboration

E-Partnership

E-Governance

E-Certification

E-Community

E-Marketing



ICT di Perguruan Tinggi

CONTOH di UNHAS pada tahun 2006-2010

LESSONS LEARNED

VISI

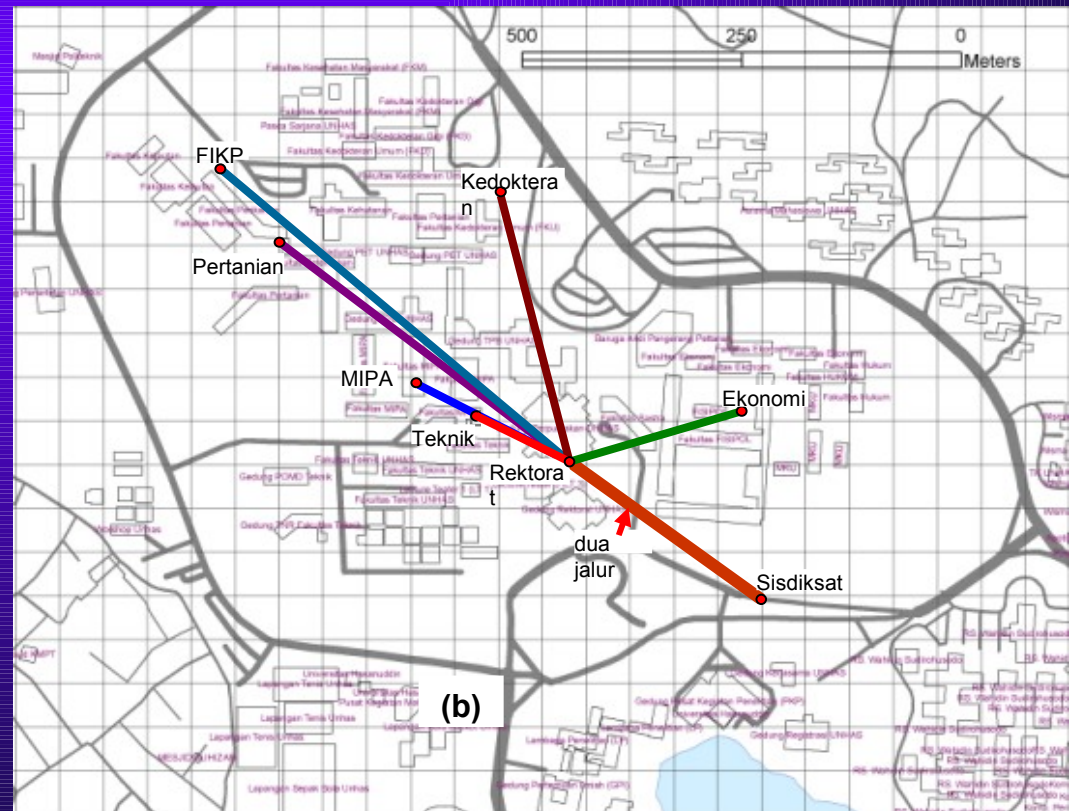
CITRA UNHAS 2010 CITRA UNHAS 2010

ICT-based CAMPUS (Kampus berbasis Teknologi Komunikasi dan Informasi):
Pelayanan INTERNET yang "cepat" dan berkesinambungan

- Sistem Informasi TERPADU
- Pemanfaatan fasilitas *E-LEARNING*
- SDM yang '*ICT-minded*'

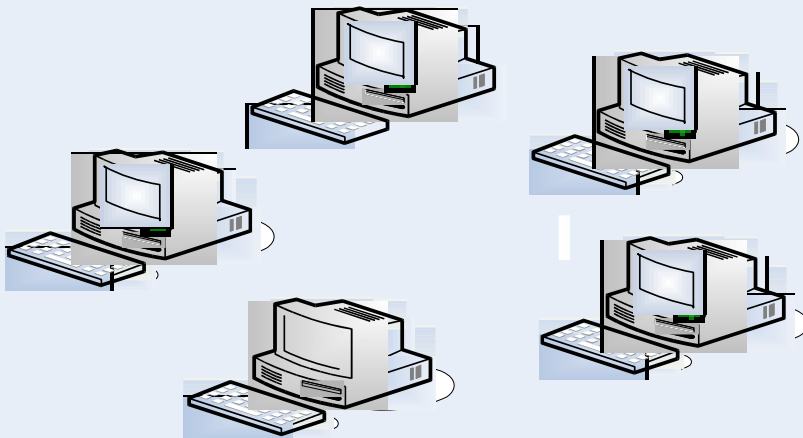
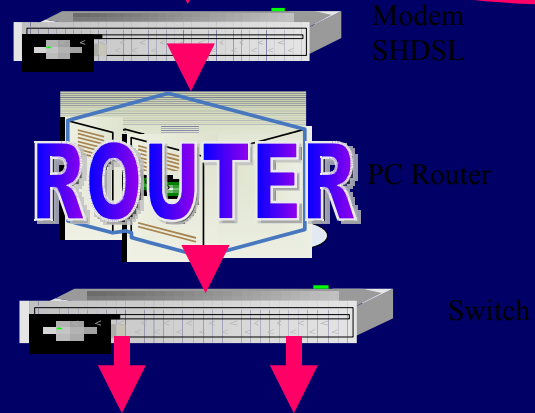
DIVISI 1: INTERNET

- ◆ Kampus = *Free Internet Zone*
- ◆ Jaringan WAN Kampus

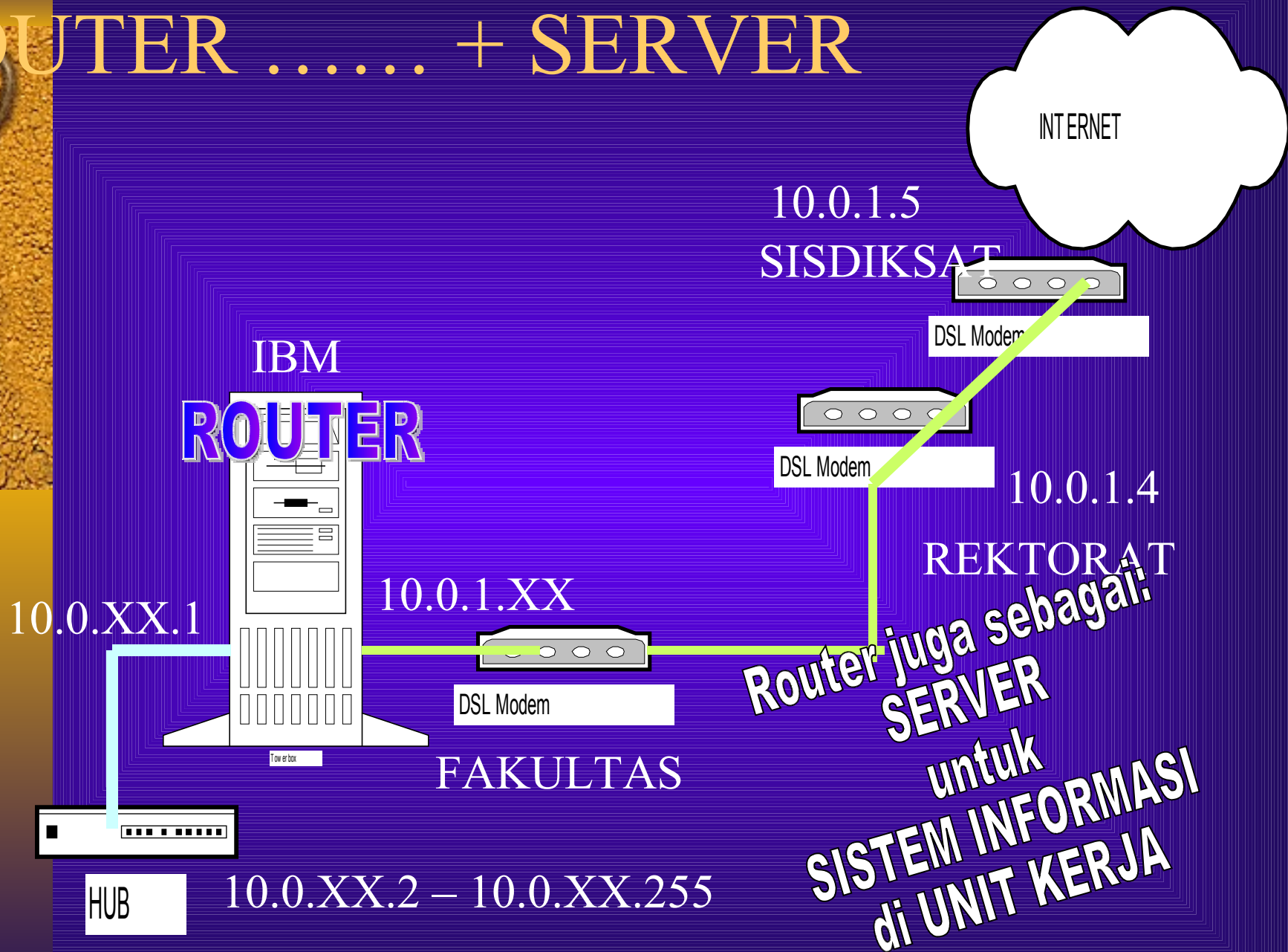


Konfigurasi di Unit Kerja

dari Lt. 8



ROUTER + SERVER

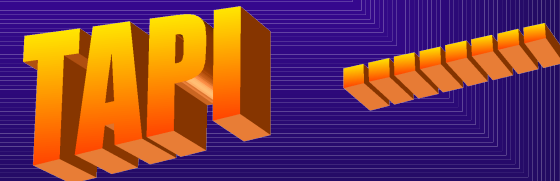




DIVISI 2: SISTEM INFORMASI

Desentralisasi DATA

- ◆ Konsep: **DESENTRALISASI DATA**
- ◆ *Supporting information* untuk Manajemen
- ◆ Yang sudah tersedia SISTEM-nya:
 - Sistem Informasi AKADEMIK
 - Sistem Informasi KEUANGAN
 - Sistem Informasi ASSETlengkap!



BELUM ADADATA-NYA !!!

- *Kurikulum setiap Program Studi*
- *Data Dosen dan Pegawai*
- *Data Mahasiswa dan mata-kuliah yang diambil setiap semester*

BELUM DI-INPUT !!!

DIVISI 3: FASILITAS E-LEARNING



GDLN

SOI

INHERENT

CONTENT: pembelajaran
berbasis MULTIMEDIA, kerjasama
LKP

PROXY-LIBRARY (repository
system)

**Learning management Systems
(LMS)**



DIVISI 4 : PENGEMBANGAN SDM

Civitas Academica (Dosen, Mahasiswa, dan Staf) yang memanfaatkan **INTERNET** sebagai pendukung **TUGAS**-nya meningkatkan **SDM** pada masing-masing **UNIT KERJA** yang mampu mengelola **SISTEM INFORMASI** dan memanfaatkannya untuk **MANAJEMEN**.
Dosen dan mahasiswa yang dapat memanfaatkan **Teknologi Informasi dan Informatika** untuk meningkatkan **SARANA PEMBELAJARAN**.

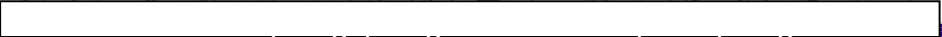
PELATIHAN

SEMINAR

LOKAKARYA



Langkah-langkah selanjutnya



Kampus Unhas

10 Mbps
Awal 2008



10 Mbps
Awal 2008



SELESAL

The END

The END

THE END