Introduction
Software Engineering Course

M.Octaviano Pratama, S.St

Introduction

About Faculty

▸ M Octaviano Pratama

▸ Palembang, 03 November 1991

▸ Skills : Java, Php, MySQL, C#, Android, Windows Phone, Linux, Python, C++

▸ Research Topic: Information System, Software Engineering, E-Learning, GIS

▸ Certification : IBM Object Oriented Analysis and Design, SAP Student

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Regulation

- ▸ 70% minimum Attendance, otherwise will not be passed
- ▸ For each Quarter, there will be a quarter test (QT) (Q1 – Q8)
- ▸ For each Quarter, there will be ISAS (Analysis Information System) and Project
- ▸ Consultation for each project and ISAS is a must
- ▸ Assignments and Quizzes will be given as often as possible
- ▸ If you fail in ISAS and Project, you will not be permitted in QT
- ▸ If you fail in QT, you will not be passed as PNJ Student

Software Engineering Track

- IT Fundamental and Office Productivity Tools (Q1)
- Intro to programming logic and techniques (Q1)
- Intro to Relational Database Design (Q2)
- Implement a database design on MS SQL Server (Q2)
- Object Oriented Programming C# (Q3)
- Windows Application using .NET Framework (Q3)
- Intro to Linux (Q4)
- Intro to Java Programming Language (Q4)
- Data Structure and Algorithm (Q4)
- Intro to Web Content Development (Q5)
- Developing Database Apps using ADO.net & JDBC (Q5)
- Object Oriented Analysis and Design (Q6)
- Developing Web Apps using ASP (Q6)
- Developing J2EE Apps (Q7)
- Web Component Development using Servlets and JSP (Q7)
- Distributed Apps (Q8)
- Software Testing and Quality Assurance (Q8)

Task - 1

▸ Create Dropbox account and sent your account information to m.octavianopratama@eng.ui.ac.id due to Tuesday, August 25th 2015

For every assignments, materials, and tutorials it will be available in Dropbox

▸ Form group that consists of 3 students. The group member will be noted in CCIS for ISAS Project

Our Digital Planet

you notice how quiet the city is.
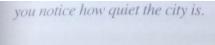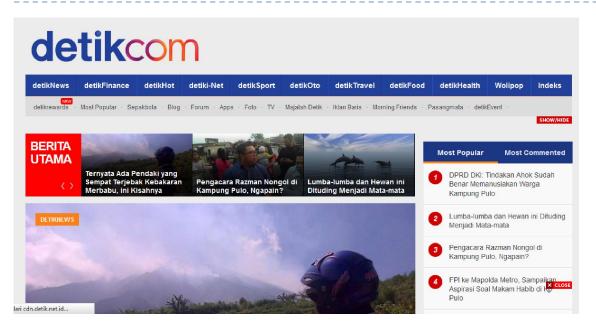
FIGURE 1.5 Computers are used to coordinate thousands of Union Pacific trains in this

FIGURE 1.14 Terminals like the one in the photo on the left make it possible for ticket agents all over the world to send information to a single mainframe computer like the one

FIGURE 1.10 Embedded computers are so common in today's world that they are all but invisible. The Independence iBOT Transporter is an intelligent wheelchair that allows people to climb up and down stairs, "stand up" on two wheels, and even stroll on the beach (left). Embedded computers in the Toyota Prius integrate the hybrid's gas engine and battery, optimizing gas mileage and providing constant feedback to the driver (middle). Toymaker Sega's 'A.M.P.' (Automated Music Personality) uses embedded computers to move on two wheels and play digital audio (right).

FIGURE 1.

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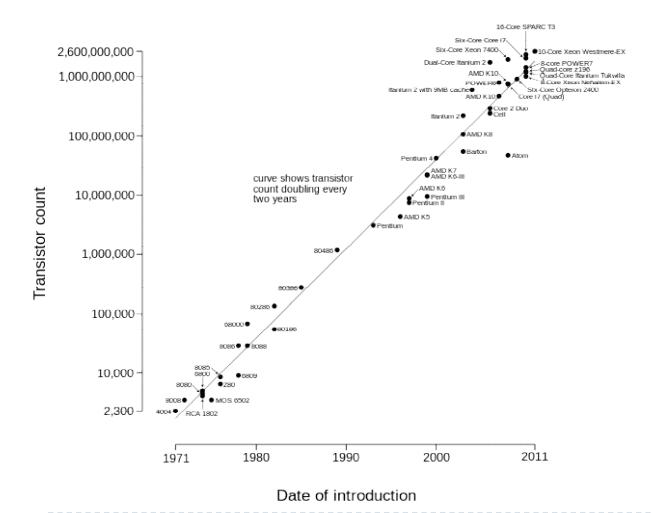
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Indonesia now

Did you hear how to create website and android Application ?

Why IT Grows so fast ?

Microprocessor Transistor Counts 1971-2011 & Moore's Law

Because the number of transistors per chip doubles every two years. Computer power continues to increase as a result

Task 2

Discuss this below topic and present in tomorrow class :
▸ Algorithm
▸ Programming language
▸ Database technology
▸ Software Engineering
▸ Mobile Technology
▸ Augmented and Virtual Reality
▸ Computer Networking
▸ Computer Security
▸ Artificial Intelligence
▸ Robotic
▸ E-Commerce