General, Topic 1, Course Introduction

Course Intro
Contents

## 3BA3 – Data Communications

- Lecturer: Andronikos Nedos <nedosa@cs.tcd.ie>
- Two semester course:
  - Operating Systems (12 weeks) (Kenneth Dawson)
  - Data Communications/Networking (12 weeks) (Me)
- Web Resources
  - http://www.cs.tcd.ie/courses/ba/3ba3/
  - Slides provided online in PDF form
  - Password protected web pages
    - Username: 3BA3 Password: oscomms

## General, Topic 1, Course Introduction

## Course Organisation

Course Intro
Contents

- Single Text:
  - Computer Networks (4th edition)
    - Andrew S. Tanenbaum
    - 500.17 N691\*3 (4\*counter reserve, 16\*S-LEN)
- Application based
- Coursework
  - 1 Assignments in C++ / Python + 1 Essay?
  - Multiple Choice Test ?

**Course Intro** General, Topic 1, Course Introduction **Example Applications** Contents ■ Telephone - Voice: Driving factor for most telecommunication systems, - Text messaging: Telegraph!! 1-1 asynchronous communication, - Images: Images from camera phones (or video conferencing) requires more bandwidth. ■ Television: Very different broadcast medium ■ Computers: Primarily data transmission Local Networks: Between machines - Peripherals: Between devices for a single machine Internet: <u>Huge network connecting many</u> machines/fridges/sensors with a number of well defined protocols.















