Client Server Programming

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- ◆ Course Book:

  – Data and Computer Communications

   – William Stallings

   – Prentice Hall International Edition

  – Data Communications and Networking

   – Forouzan, Behrouz

   – McGraw-Hill International

Course Topics

◆ Overview from last year

◆ Protocols and Architectures

  » ISO OSI reference model

  » The TCP/IP reference model

◆ The Client-server model

◆ The Transport Layer

  » Operational concepts: Services and protocols, Transport addresses and connections etc.

◆ The Application Layer

  » Common networked applications

◆ The Berkeley Sockets API

  » The Socket Abstraction: Socket primitives, Addressing, inter-process communications, Iterative and concurrent applications etc.

Course Tasks

- ◆ Lectures – 2 hours per week
- ◆ Labs – 2 hours per week
  - » Four groups: A, B, C and D
- ◆ Assignments (Accounts for 40% module mark)
  - » Lab assignment (programming)
  - » Class Test (theory)
- ◆ Module exam (Accounts for 60% module mark)