Lecture 13   Overview

- ## This Lecture
  - ### Revision

Topics

- ## Network programming
  - TCP&UDP
  - TCP sockets
  - I/O models
  - Socket options
  - DNS and IPv6
  - Broadcast & Multicast
- ## Advanced networking topics
  - Wireless sensor networks, Cyber-physical systems
  - MAC and routing protocols for WSNs
  - Datacenter networks
  - Li-Fi networks & Network on chips
  - Bitcoin and Blockchain
  - IoTs and Software defined networks

Assessments

- Internal assessment (40%)
  - Assignments (20%)
  - Project (20%)

- Exam (60%)
  - 3 hours

Exam

- No calculators
- No notes, books or other written material
- Write
  - On exam script
- Booklet
  - For rough work only

Exam

- Exam scope
  - Lecture 1 – Lecture 12
- 15 questions in total

Question Example

1.   (a)   What is the protocol layering principle?

           _____

           _____

           _____

           _____

           _____

           _____

           _____

           _____   (2)

   (b)   What are the advantages and disadvantages of protocol layering?

           _____

           _____

           _____

           _____

           _____

           _____

           _____

How to Study for the Exam

- Read and understand the material given in the lecture notes

- THEN practise by doing some past exams which you can get from the library.

- Past years exams are a SUBSET of possible questions.

Layout & Presentation

- Write legibly.
- If you have to split an answer, please say so ('continued in ….').
- Leave the right hand margin clear.

5.   What is a log file? Assuming the database management system uses immediate up-
      date based recovery what information must be written into the log file? When is that
      information written into the log file?

      Lots of writing on, about and round
      about the topic.
      Hopefully some examples.

      Nice legible writing.

      So much to say that there's not
      enough room on the page.

      blah, blah
      and so on
      .....
      ....
      .....
      ....
      ....
      So,

      having got to the end of the page,
      this is what to do

(9)

continued in booklet

Finally

Go well

I wish you every success and hope we'll meet up again some time