1DT052
Computer Networks I

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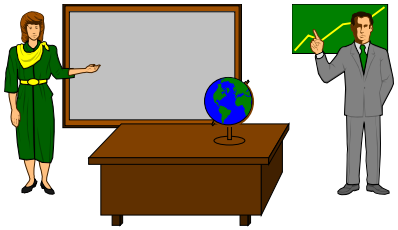
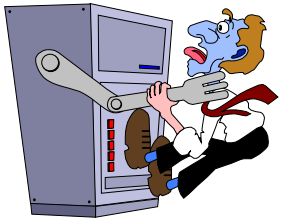
Consultation Hours:
(Wed) 1-2pm
(Fri) 1-2pm

Organization of the Course



- Lectures
- Labs
- Assignment
- Examination



Visit our course web page:

http://www.it.uu.se/edu/course/homepage/datakom/ht12

Nature of the Course

- The course combines theoretical and practical understanding on the design and operations of computer networks and network protocols.

- The theory part of the course consists of a series of lectures.
- Laboratory exercises and assignment comprise the practical part.

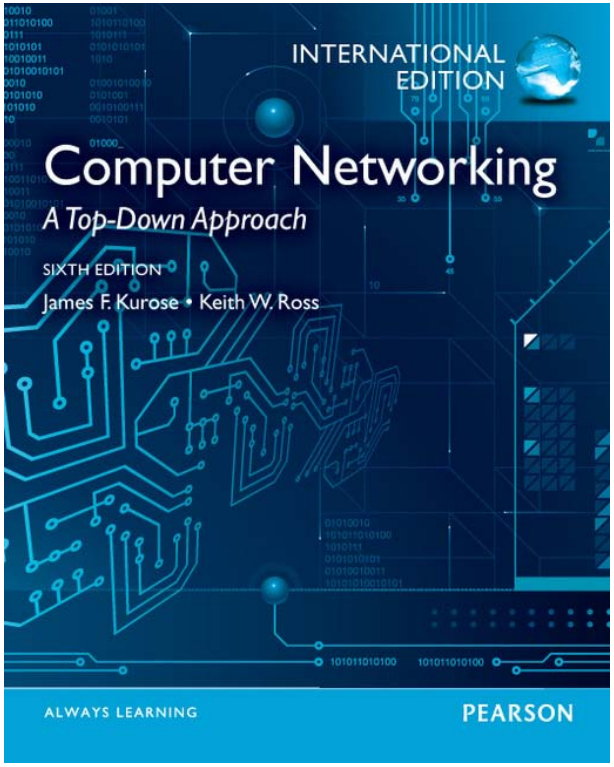
What You Will Learn

- Basic principles and applications of computer networks and the Internet.
- The operations of different layers in the Internet protocol stack.
- Issues like network security to most current and relevant networking technologies.
- Practical experience on designing small computer networks and understanding network protocols.

Other Related Courses

- Distributed Systems (1DT064)
- Computer Networks II (1DT074)
- Computer Networks III (1DT082)
- Wireless Communication and Networked Embedded Systems (1DT077)

Required Textbook



Computer Networking: A Top Down Approach, 6th edition.
Jim Kurose, Keith Ross
Addison-Wesley, 2012.

Suggested References

- Data and Computer Communications,8th edition , William Stallings, Prentice Hall, 2006.
- Computer Networks, A Systems Approach, by Larry L. Peterson and Bruce S. Davie, Morgan Kaufmann Publishers, 5th edition, 2011.
- Computer Networks, 5th Edition, by A. S. Tanenbaum, Prentice Hall PTR, 2010.
- UNIX Network Programming , Volume 1, 3rd Edition: Networking APIs: Sockets and XTI, by W. Richard Stevens, Prentice Hall, 2003.
- TCP/IP Illustrated, Volume 1: The Protocols, by W. Richard Stevens, Addison-Wesley, 1994, ISBN 0-201-63346-9.

Coursework

- 2 Labs and 1 assignment
- Final Examination

Grading

- To pass the course, you need to:
  - get more than 70 marks in your labs and assignment.
  - get more than 60 marks in your final exam.
- Lab part is either Pass or Fail.
- Final grade according to your final exam:
  - >60 grade 3
  - >75 grade 4
  - >90 grade 5

More about your labs…

- Tutors:
  - Fredrik Bjurefors, Hjalmar Wennerström and Volkan Cambazoglu
- 2 Labs:
  - Snoop
  - Routing
- 1 Assignment

Course Outline

- Ch. 1: Computer Networks and the Internet
- Ch. 2: Application Layer
- Ch. 3: Transport Layer
- Ch. 4: Network Layer
- Ch. 5: Link Layer
- Ch. 8: Security in Computer Networks
- Ch. 6: Pervasive Computing

Welcome ☺