Computer Networks
(Mạng Máy Tính)

Lectured by: Phuong-Duy Nguyen

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Course details

- Number of credits: 3
- Study time allocation per week:
  - 2 lecture hours for theory
  - 2 lecture hours for exercises and lab work
  - 5 hours for self-study

Course outline (1)

- Fundamental concepts in the design and implementation of computer networks
  - Protocols, standards and applications
  - Introduction to network programming.

Course outline (2)

- The topics to be covered include:
  - Introduction to network architecture, OSI and the TCP/IP reference models.
  - Application layer protocols and applications such as DNS, E-mail, and WWW.
  - Network-programming interface
  - Internet transport protocols (UDP and TCP)
  - Issues related to routing and internetworking, Internet addressing and routing.
  - Network technologies, especially LAN technologies (Ethernet, wireless networks and Bluetooth).

References

- *"Computer Networking: A Top Down Approach ",*
  7th edition, Jim Kurose, Keith Ross
  Pearson, 2016.

- *"Computer Networks"*, Andrew S. Tanenbaum, David J.
  Wetherall, 5th Edition, Prentice Hall, 2011.

Assessment

- Assignment 30%
  - Two assignments, 15% each
- Lab exercises: 10%
- Final exam: 60%
- Laboratory work is compulsory
  - No lab work = No assignment mark