Computer Networks (Mang Máy Tính)

Lectured by: A/Prof. Phạm Trần Vũ ptvu@hcmut.edu.vn

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