

System Administration 1

Prepared by Dr. Ahmed Omar

IT391

System Administration 1

Lecture 0



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Course Outline

This course teaches skills and concepts that are essential to the administration of operating systems, networks, **software**, various computing support systems, and system **documentation**, **policies**, and **procedures**. This also includes **education** and **support** of the users of these systems.

Learning Outcomes

Upon completion of this course, the student will be able to:

- To learn how to install and configure a Unix operating system.
- To learn how to install and update applications on a Unix operating system, including configuration of some important user services such as email and printing.
- To learn how to manage users and groups, as well as best practices for supporting the users (customers) of an organization's computing infrastructure.
- To appreciate the importance of ethics in system administration, and to understand and apply a set of ethical rules in management of a computer system.
- To become familiar with a basic set of Unix operating commands and utilities.

Learning Outcomes

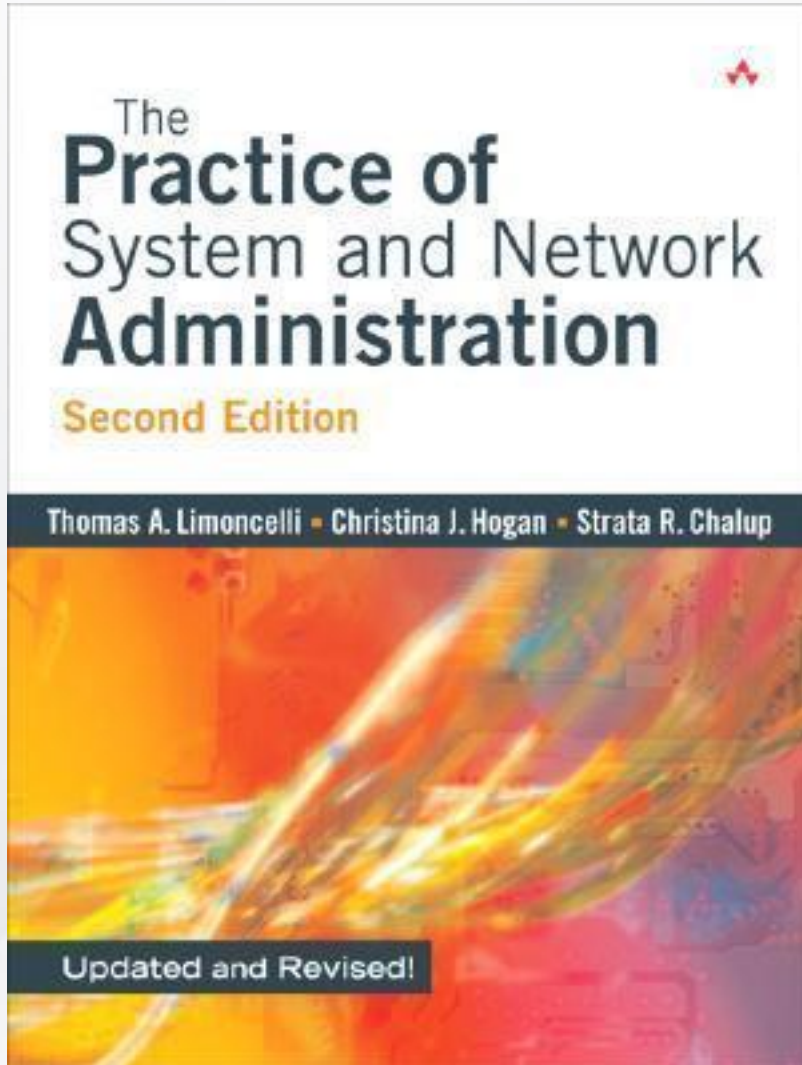
Upon completion of this course, the student will be able to:

- To understand the importance of communication and documentation and use software tools to keep active documentation of system changes and to track and manage customer requests.
- To understand the importance of automation and be able to create scripts and use other tools to automate system management procedures.
- To know some basic security measures to take in system administration.
- To prepare for possible disasters, including an understanding of backup and restoration of file systems.
- To know how to manage system resources, including methods for tracking system metrics.
- To apply these skills in the administration of an actual computer system with actual users (customers).

Week	Topics
1	Orientation week
2	Introduction to System Administration
3	Installing and Configuring Windows Server
4	Installing and Configuring Linux (Unix-based) Systems
5	User and Group Management
6	Application and Service Configuration
7	Monitoring and Maintaining Servers
8	Application and Data Provisioning
9	Backup, Restore, and Disaster Recovery
10	Automation and Scripting
11	Documentation & Communication
12	Revision
13	Final Exam



Course Plan



Reference

The Practice of System and Network Administration

❖ **80 Marks**

- 10 weekly short exams
- 8 Marks for each Exam.

❖ **20 Marks**

- Final Examination



Assessment



Thank You