

Institute of Business Administration, Karachi
MIS & CS Department
Operating Systems
Course Outline
Fall Semester 2003
Athar Mahboob

Introduction

This is a course on the basics of operating systems. We will cover the fundamental issues in the design of operating systems including processes, scheduling, memory management, I/O management, distributed systems and security. The course has a laboratory component. We shall be using the Linux operating system as a case study throughout the course.

Text Book

Operating Systems – Internals and Design Principles, Third Edition
William Stallings
Prentice Hall 1998

Course Website

Lecture notes and supplementary material will be made available through
<http://www.atharmahboob.com/courses/os>.

Contacting the Instructor

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Grade Distribution

Kindly note the grade distribution policy given below. Quizzes will be “surprise”. Also note the Grace Policy indicating how many instances of each category will be dropped.

<i>Category</i>	<i>%</i>	<i>Grace Policy</i>
Homework and Laboratory Assignments	30%	N - 2
Quizzes	10%	N - 1
Hourlies	30%	N - 1
Final Exam	30%	Not Applicable

Lecture Schedule and Reading Assignments

We will try to stick to the following schedule of lectures. Also note the readings assignments from the textbook.

<i>Week Number</i>	<i>Topic</i>	<i>Reading Assignment from Textbook</i>
1	Background Information	Chapter 1 and 2
2, 3, 4	Processes	Chapter 3, 4, 5 and 6
5, 6	Memory	Chapter 7 and 8
7, 8	Scheduling	Chapter 9 and 10
9, 10	Input/Output and Files	Chapter 11 and 12
11, 12, 13	Distributed Systems	Chapter 13 and 14
14, 15	Security	Chapter 15
16	Review	