PGT200 – Operating Systems

Course Information

Refer to this site:

http://azman.unimap.edu.my/dokuwiki/doku.php?id=pgt200 (General Info)

Lecturer(s):

- Azman M. Yusof (*azman@unimap.edu.my*)

Course Objectives

- Able to discuss basic operating systems concepts

- Able to implement basic operating systems concepts

- Able to evaluate implementations of basic operating systems concepts

Course Assessment

	Examinations		Course Work		
Total Contribution	60%		40%		
Assessment	Mid-Term	Finals	Assignments	Lab Assessments	Lab Project
Contribution	20%	40%	10%	20%	10%

Course Text/Reference

- Modern Operating Systems 3/E (Andrew S. Tanenbaum), Prentice Hall, 2008.

- Operating Systems Design and Implementation 3/E (Andrew S Tanenbaum, Albert S Woodhull), Prentice Hall, 2006.

- Operating Systems: Internals and Design Principles 7/E (William Stallings), Prentice Hall, 2012.

- Operating System Concepts 9/E (Avi Silberschatz, Peter Baer Galvin, Greg Gagne), Wiley, 2012.

- Operating Systems 3/E (Deitel, Deitel & Choffnes), Prentice Hall, 2003.

Covered Topics

- Processes and Threads
  - Model & implementation, IPC, scheduling
- Memory Management
  - Abstractions, virtual memory, paging, segmentation
- Filesystems
  - Files, directories, management, optimization
- I/O Management
  - Memory mapping, DMA, programmable, interrupt-driven, device drivers
- Overall implementation

Operating Systems

- What?

- Why?