

Operating Systems

Instructor: Dr. Ziad Sakr

Class Schedule: Lectures on Monday 8:00 – 10:00 and Tuesday 1:00 – 4:00; Tutorials Friday 8:00 – 10:00

Location:

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Course URL: www.u.tt/ict

Marking Scheme

Assignments	30% (problem solving and programming questions)
Midterm	30%
Final Exam	40%

Compulsory Textbook

- Operating Systems Internals and Design Principles – W. Stallings, Fifth Edition. Prentice-Hall.

Reference Textbook

- Operating Systems Concepts with Java – Silberschatz, Galvin, Gagne, Seventh Edition, Wiley.

Course Outline

- Computer system overview
- Operating systems overview
- Process description and control
- Threads
- Concurrency: mutual exclusion and synchronization
- Deadlock and starvation
- Memory management
- Virtual memory
- Uniprocessor scheduling
- I/O management and disk scheduling
- File management