Course Title: Operating Systems

Lecturer: Noha A. Yousri

Contact information: noha.yousri@alexu.edu.eg

Level: Undergraduate (Third Year)

Course Objectives:

Understanding the major components of an OS (Theoretically and practically)

Text Books:

"Operating Systems", by Deitel, Deitel and Choffnes, 3rd edition. (Main Text Book) "Operating Systems, Internals and Design Principles", by William Stallings, 3rd edition.(Reference).

Course Contents:

- -Introduction (1/2 lectures)
- -Hardware and Software (1 lecture)
- -Processes Concepts (2 lectures)
- -Thread Concepts (2 lectures)
- -Concurrent Programming (5/6 lectures)
- -CPU Scheduling (2/3 lectures)
- -Memory Management (2/3 lectures)
- -Disk Scheduling (1 lecture)
- -Case studies: linux, Windows XP (1/2 lectures)

Grading Scheme:

Total marks: 125 Final exam: 90 Year's work: 35

(Midterm + sheets, quizes and programming assignments)