



Course program and reading list

Semester 2 Year 2022

School: Efi Arazi School of Computer Science B.Sc

Operating Systems

Lecturer:

Prof. Anat Bremler-Barr bremler@runi.ac.il

Tutors:

Mr. Gal Lapid gal.lapid@post.runi.ac.il

Mr. Shahar Glazner shahar.glazner@post.runi.ac.il

Teaching Assistant:

Mr. Gal Lapid gal.lapid@post.runi.ac.il

Mr. Shahar Glazner shahar.glazner@post.runi.ac.il

Ms. Ofek Barazani ofek.barazani@post.runi.ac.il

Mr. Shimon Elfassy shimon.elfassy@post.runi.ac.il

Course No.:	Course Type :	Weekly Hours :	Credit:
84	Lecture	4	4

Course Requirements :	Group Code :	Language:
Final Exam	222008401	Hebrew

Prerequisites

Equivalent:

3144 - System Programming in C

Prerequisite:

59 - Data Structures

79 - Digital Architectures

391 - Programming Workshop **OR** 3144 - System Programming in C



Course Description

- Processes and threads
 - Deadlocks
 - Synchronization and coordination
 - Scheduling
 - Cache
 - Memory Management
 - File System
 - I/O devices
 - Virtualization
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Course Goals

- To provide coverage of basic computer system organization
 - Theoretical Principles, Concepts
 - Applied system programming
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Grading

- Must pass the exam (exam grade ≥ 60) to pass the course.
- Final Grade: Final exam 70%, Exercises 30%
- Must submit n-1 exercises in order to be eligible to take the test.
- CS4Real attendance: up to 2 points bonus
- Pop-up questions at the beginning of the lectures
 - only students who are attended at the lecture are allowed to answer the pop-up questions (up to 3 points bonus)



Reading List

- Modern Operating Systems, By Andrew S. Tanenbaum
- Operating System Concepts, Silberschatz and Galvin