King Saud University
Electrical Engineering Department

EE354: Microprocessors Laboratory

First Semester 1426/27 (2005/2006)

Credit Hours: 1

Instructor: Dr. Salah Foda
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Textbooks:

"*Introduction to Microprocessors Laboratory Notes*," **Salah G. Foda**, **2005**.

Course Outline and Experiments:

The following table lists experiment sessions during the term. The outline follows closely the course laboratory notes.

Week	Topics
1	Introduction to 80x86 programming model and architecture
2	**Experiment 1**: Using the debugger and string manipulation
3	**Experiment 2**: Running programs and software interrupts
4	**Experiment 3**: Using the assembler and I/O programming
5	**Experiment 4**: Programming the PC and keyboard services
6	**Experiment 5**: Procedures, macros and mouse programming
7	**Experiment 6**: Memory management
8	*Midterm Test*
9	Functional description of the FLT-86 training board
10	**Experiment 7**: Basic I/O Hardware Interface
11	**Experiment 8**: Traffic Light Control
12	**Experiment 9**: Digital Conversion
13	**Experiment 10**: Motor Speed Control
14	**Experiment 11**: Temperature Control
15	*Final Test*

Course Evaluation:

70%	Laboratory Reports
10%	Midterm Test*
20%	Final Test*

* Both tests are performed in the laboratory.