

King Saud University
Electrical Engineering Department

EE353: Introduction to Microprocessors

First Semester 1426/27 (2005/2006)

Credit Hours: 3

Instructor: Dr. Salah Foda
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Textbooks:

- [1] “*The 80×86 Family: Design, Programming, and Interfacing*”, **John Uffenbeck**, Prentice Hall.
- [2] “*Intel Microprocessors 8086/8088, 80186/80188, 80286, 80386, 80486, Pentium, Pentium Pro, and Pentium II Processors: Architecture, Programming, and Interfacing*”, **Barry B. Brey**, Prentice Hall.

Contents:

- Introduction to Microprocessors and computers
- Microprocessor architecture
- Addressing modes
- Data movement instructions
- Arithmetic and logic instructions
- Program control instructions
- Interrupts
- Memory and I/O interface
- Programming the microprocessor
- Alternative architectures and future trends.

Evaluation:

35% Two Midterms*
10% Quizzes and Attendance
15% Homeworks and Tutorials
40% Final Examination

* First midterm date is **Saturday** Shawwal 24, 1426 (November 26, 2005) and second midterm date is **Monday** Dhul Qui'da 17, 1426 (December 19, 2005).