Kingdom of Saudi Arabia
Ministry of Education
University of Bisha

المملكة العربية السعودية
وزارة التعليـــــــم
جامعة بيشة

College of Engineering
Dept. of Electrical Engineering

كلية الهندسة
قسم الهندسة الكهربائية

University of Bisha
جامعة بيشة

# Course Syllabus

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|---|---|
| **Course Code and Name** | **EE 26435 – Introduction to Microprocessor** |
| **Credit and contact hours** | **3 (2, 1, 1) (Lecture, Tutorial, Lab)** |
| **Required or Elective** | **Required** |
| **Level / Year** | **Level (7) / Year (4)** |
| **Course Prerequisite** | **EE 26332 Logic Circuits Design** |
| **Textbook** | B. Brey, The Intel Microprocessors, Prentice Hall, 2008. |
| **Course Description** | This course covers the following topics: Introduction to microprocessors and microcontrollers - Internal architecture of 8086 microprocessor -Assembly language of 8086 microprocessor - Hardware architecture of 8086 microprocessor - Main concepts of memory, interfacing, and I/O - Other microprocessors - Fundamentals of microcontrollers: architecture, I/O Ports, memory organization, addressing modes and instruction sets, simple programs. |
| **Brief List of Topics to be Covered** | 1. Introduction to microprocessors and microcontrollers. <br> 2. Internal architecture of 8086 microprocessor. <br> 3. Assembly language of 8086 microprocessor. <br> 4. Hardware architecture of 8086 microprocessor. <br> 5. Main concepts of memory, interfacing, and I/O. <br> 6. Other microprocessors. <br> 7. Fundamentals of microcontrollers. <br> 8. Instruction sets, simple programs. |
| **Course is prerequisite for** | - |