

CEN 433: Digital Systems Design (Micro)

- Credit Hours (Lectures, Lab, Tutorial): 3 (3 + 0 + 1).
- Prerequisites: CEN 316.

Courses content: Architecture and Instruction set of different 16 bit microprocessors; Microprocessor chips and LSI technology; Supporting chips (Buffers, decoders, system clock generator, reset system); Memory chips and subsystems Interfacing 16-bit Microcomputers. Architecture of Microprocessor based systems, design technique, memory and I/O devices interfacing to the microprocessor, interfacing technique, I/O techniques: Interrupts, Direct memory access; System development and design tools techniques: hardware, and software.