Level: bachelor

Course title: Basics of digital electronics

Status: elective

ECTS: 8

Requirements: None

Learning objectives
Introduction to the basic digital circuits and digital systems work.

Learning outcomes
Upon completion of the course students should have developed:
General skills: Possession of good knowledge of most logic circuits on the functioning of digital systems;
Subject-specific skills: Understanding of certain electronic devices and circuits. Understanding of the basic and complex logic circuits and memories.

Syllabus

Theoretical instruction

Practical instruction
Experimental exercises: Operational amplifier. The basic logic. TTL and CMOS Decoder. RS and D flip-flop. Counters.

Weekly teaching load

| Lectures: 3 | Exercises: 3 | Other forms of teaching: 0 | Student research: 0 | Other: 0 |