Title	Code
Fundamentals of Microprocessor Technology	**1010331431010320627**
Field: **Computer Science**	Year / Semester: **2 / 3**
Specialty: **-**	Course: **core**
Hours: Lectures: **2** Classes: **-** Laboratory: **-** Projects / seminars: **-**	Number of credits: **0**
	Language: **polish**

Lecturer:

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Faculty:

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Status of the course in the study program:

Obligatory subject, Faculty of Electrical Engineering, full time undergraduate studies, field: Computer Science.

Assumptions and objectives of the course:

In-depth knowledge of theoretical and practical problems associated with the construction elements, components and microprocessor systems and the basis of their programming and design.

Contents of the course (course description):

Number systems, codes, digital logic circuits, gates, flip-flops, counters, shifters. Construction of processors - classification schemes. CPU, bus, programmable memory, mass, interfaces. Microprocessors, microcontrollers. Programmable Controllers PLC systems, input / output - RS-xxxx, I2C-bus and other communication systems - CAN protocols, and other surveillance systems (polling) and security, running. DSPs, ASICs, wireless sensor networks.

Introductory courses and the required pre-knowledge:

Basic knowledge of electrical engineering, electronics and digital-circuit engineering.

Courses form and teaching methods:

The lecture supported by multimedia presentation, laboratory classes.

Form and terms of complete the course - requirements and assessment methods:

Written tests, pass a written / oral.

Basic Bibliography:

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Additional Bibliography:

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