Title	Code
Microprocessor Systems	**1010322431010320695**
Field: **Computer science**	Year / Semester: **2 / 3**
Specialty: **Microprocessors systems programming**	Course: **core**
Hours: Lectures: **1** Classes: **-** Laboratory: **-** Projects / seminars: **-**	Number of credits: **0**
	Language: **polish**

Lecturer:

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Status of the course in the study program:

Obligatory subject, Faculty of Electrical Engineering, field: Computer Science, specialty: Programming of microprocessor systems, extramural graduate studies.

Assumptions and objectives of the course:

Purchase of knowledge about the architecture of microprocessors and microcomputer systems.
Purchase of theoretical and practical skills in programming microcontrollers in assembler and C language and designing of microprocessor systems in industrial applications and in the vehicle.

Contents of the course (course description):

The architecture of microprocessors, microcontrollers and microprocessor systems. Architecture of Intel 8051th. Cooperation microprocessor system with the environment. System bus. Decoding addresses. Memory. Design principles of systems memory map. Design of input / output subsystems, and memory. Application of microcontrollers in industrial and motorization. I / O ports. Serial interfaces. Interrupt Systems. Microprocessor systems programming in C. The main technical problems of programming microcontrollers.

Introductory courses and the required pre-knowledge:

Basic knowledge of digital technology, programming and arithmetic of calculating machines.

Courses form and teaching methods:

The lecture supported by multimedia presentation, project classes in the laboratory.

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

Exam - test in a written form, project.

Basic Bibliography:

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Additional Bibliography:

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