

Title <b>Digital Systems Design</b>	Code <b>1018011410108120267</b>
Field <b>Electronics and Telecommunications</b>	Year / Semester <b>2 / 4</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>3</b> Classes: <b>15</b> Laboratory: <b>1</b> Projects / seminars: <b>-</b>	Number of credits <b>0</b>
	Language <b>polish</b>

**Lecturer:**

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**Faculty:**

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**Status of the course in the study program:**

Obligatory course, Faculty of Electronics and Telecommunications

**Assumptions and objectives of the course:**

Knowledge of basic design digital circuits and systems.

**Contents of the course (course description):**

Number systems, binary arithmetic, Boolean algebra, logical functions, design of combinational circuits, minimization method?s, arithmetic circuits, programmable logic devices, sequential circuits, flip-flops, registers and counters, sequential circuits analysis and design, automated synthesis of finite-state machines based on Mealy and Moore models, asynchronous circuits

**Introductory courses and the required pre-knowledge:**

Basic knowledge of logics and electronics.

**Courses form and teaching methods:**

Lectures in the form of multi-media presentations, laboratory, projects.

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

Lab reports, written exam.

**Basic Bibliography:**

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**Additional Bibliography:**

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