

Title <b>Informatics</b>	Code <b>1010321221010320134</b>
Field <b>Electrical engineering</b>	Year / Semester <b>1 / 2</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>2</b> Classes: -    Laboratory: <b>1</b> Projects / seminars: -	Number of credits <b>5</b>
	Language <b>polish</b>

**Lecturer:**

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**Faculty:**

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

Obligatory subject, Faculty of Electrical Engineering, Field: Electrical Engineering, Full Time studies studies

**Assumptions and objectives of the course:**

Knowledge of theoretical and practical subjects related with elements of hardware, databases, designing local area networks and the use of language C++ and MS Visual C # on matters of engineering.

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

Base of construction and operation of microprocessor systems, carriers of mass information, correcting of safety and speed of data processing in server solutions (multiprocessor technology, standards SCSI, SAS, technology RAID), bases of architecture of parallel computers and parallelization of a computation, computer networks (data transmission in local networks, active and passive network equipment, topology, network technologies: Ethernet, Token Ring, FDDI, 802.11, internet (structure, IP address, services, access methods), relational model of databases (basic ideas, design of structures of rates and coherence, basic SQL language, MS Access), basis for programming in C++, basic programming .NET - Language MS Visual C #, basis for object-oriented programming, HTML, forms and base of JavaScript.

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

Basic knowledge of informatics.

**Courses form and teaching methods:**

Lectures, supported by slides, laboratory exercises.

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

Written examination, credits for laboratory exercises.

**Basic Bibliography:**

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**Additional Bibliography:**

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