

Title <b>Embedded systems</b>	Code <b>1010331461010330654</b>
Field <b>Computer Science</b>	Year / Semester <b>3 / 6</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>1</b> Classes: -    Laboratory: <b>1</b> Projects / seminars: -	Number of credits <b>3</b>
	Language <b>polish</b>

**Lecturer:**

dr inż. Ewa Idzikowska  
Institute of Control and Information Engineering  
pl. Marii Skłodowskiej-Curie 5  
60-965 Poznań  
e-mail: ewa.idzikowska@put.poznan.pl

**Faculty:**

Faculty of Electrical Engineering  
ul. Piotrowo 3A  
60-965 Poznań  
tel. (061) 665-2539, fax. (061) 665-2548  
e-mail: office\_deef@put.poznan.pl

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

Obligatory course, Faculty of Electrical Engineering, field Computer science.

**Assumptions and objectives of the course:**

This course aims to give an understanding of basic concepts of embedded systems

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

Embedded system basics. VHDL - basic structure. Structural and functional modeling of logical circuits using VHDL. Methodology of embedded systems design. Microcontrollers. Real-time operating systems. Embedded systems protocols. Embedded systems programming. Embedded programs. Computer system reliability. Reliable systems design.

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

Foundations of computer architecture, logical circuits, operating systems, computer networks

**Courses form and teaching methods:**

Lecture with multimedia presentation  
Laboratory

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

Lecture: written colloquium  
Laboratory: evaluation of experiments and reports

**Basic Bibliography:**

-

**Additional Bibliography:**

-