Poznan University of Technology
Faculty of Electrical Engineering

European **C**redit **T**ransfer **S**ystem

Title	Code
SCADA Systems	**1010322431010320697**

Field	Year / Semester
Computer science	**2 / 3**

Specialty	Course
Microprocessors systems programming	**core**

Hours	Number of credits
Lectures: **-** Classes: **-** Laboratory: **-** Projects / seminars: **1**	**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, full time graduate studies.

Assumptions and objectives of the course:

The objective of the course is to familiarize students with the principles of designing, constructing and operation of a control and a visualization system, configuration of the elements of a system and capabilities of SCADA environments. Another objective is getting familiar with the possibility to work in a simulation mode and with real PLC drivers.

Contents of the course (course description):

The structure of industrial drivers does not consist of any systems that visualize their work. For the person overseeing the technological process to have an access to data representing performance of various elements in the installation and to enable the interference in the work of executive elements it is essential to use supplementary tools, SCADA systems which enable the visualization of the process, control over the progress of industrial processes and archiving of indispensable parameters. The lecture deals with the characteristics of SCADA system, with the emphasis put on practical aspects of their functioning, configuration and extraction of the chosen system elements. During the project activities the subject area of the first degree studies is being extended mainly by the cooperation with actual PLC driver. Steerage and visualization applications will be created during the project activities. All the projects are additionally enriched with a description of adopted solutions.

Introductory courses and the required pre-knowledge:

Basic knowledge of electrical engineering, electronics and computer science. Basics of programming in C, Pascal or other high-level language.

Courses form and teaching methods:

Project - laboratory classes, realization of an individual project.

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

Project - Implementing of the visualization and steerage drafts.

Basic Bibliography:

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Additional Bibliography:

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