Poznan University of Technology
Faculty of Electrical Engineering

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

Title **Computer Aid of the Control System Development**	Code **1010335121010330249**
Field **Automatic Control and Robotics**	Year / Semester **1 / 2**
Specialty **-**	Course **core**
Hours Lectures: **1** Classes: **-** Laboratory: **-** Projects / seminars: **15**	Number of credits **6**
	Language **polish**

Lecturer:

Konrad Urbański Ph.D.
Institute of Control and Information Engineering
60-965, Poznań, ul. Piotrowo 3A
tel. 61 6652 365
email: konrad.urbanski@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 at the Faculty of Electrical Engineering, Institute of Control and Information engineering.

Assumptions and objectives of the course:

Acquiring knowledge of compound problem solving using programming language. Creation of aid and supervisory application to monitoring task performance.

Contents of the course (course description):

Introduction: examples of computational intelligence methods usage, knowledge bases, optimization formulas.

RWC algorithm: using RWC (Random Weight Change) to find problem solutions, creation quality function and rule base.

Support applications: using programming languages to technical process simulation and problems solving, creating window-based application.

Introductory courses and the required pre-knowledge:

Basic knowledge of mathematics and control systems, basic programming skills.

Courses form and teaching methods:

Lectures supported by multimedia presentations and laboratory projects.

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

Individual projects

Basic Bibliography:

-

Additional Bibliography:

-