

Title Galvanotechnics	Code 1010707281010710045
Field Chemical Technology	Year / Semester 4 / 8
Specialty Industrial Electrochemistry	Course core
Hours Lectures: 2 Classes: - Laboratory: 5 Projects / seminars: -	Number of credits 13
	Language polish

Lecturer:

dr Tadeusz Leczykiewicz
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Faculty:

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Status of the course in the study program:

Technical Electrochemistry

Assumptions and objectives of the course:

The goal of the course is to orient students to the management of modern galvanic plating plants. Students should also get knowledge on current trends in electroplating technology, economical aspect of electrochemical metal deposition as well as law regulations in the EU countries concerning operation of galvanizing plants and waste treatment.

Contents of the course (course description):

The subject comprises basic topics and concepts of electrodeposition of metals and their alloys including: surface pretreatment and finishing, chemical composition of plating baths, waste treatment, quality control of metal coating and principles of basic and advanced equipment for small- and large-scale production. Law aspects of plating plants operation will be also briefly discussed.

Introductory courses and the required pre-knowledge:

Students should understand basic mechanisms that govern deposition of metal and their alloys from plating baths and should be able to evaluate quality of deposited coatings and to manage galvanizing processes.

Courses form and teaching methods:

Lecture, laboratory.

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

Oral examination

Basic Bibliography:

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Additional Bibliography:

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