

Title Methods of Technological Processes Control	Code 1010702321010720724
Field Technologie ochrony środowiska - stacjonarne II stopnia	Year / Semester 1 / 2
Specialty Ecotechnology	Course core
Hours Lectures: 1 Classes: 1 Laboratory: 1 Projects / seminars: -	Number of credits 5
	Language polish

Lecturer:

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Status of the course in the study program:

fundamental

Assumptions and objectives of the course:

Presentation of the fundamentals of chromatographic processes; their application in qualitative and quantitative. The chromatographic equipment is discussed and presented during Laboratory classes. Process chromatography.

Contents of the course (course description):

Fundamental relationships in chromatography. The column and mobile phase in gas chromatography. Instrumental requirements for gas chromatography. High performance liquid chromatography. Instrumental requirements for HPLC. Qualitative and quantitative analysis in chromatographic techniques. Process analysis ? fundamentals of the application of process analyzers. Economical aspects of process analysis. GC and HPLC systems being used in chromatographic process analysis. Examples of applications of chromatographic process analysis in the control of selected technological processes.

Introductory courses and the required pre-knowledge:

Basic physical and organic chemistry on academic level

Courses form and teaching methods:

lectures, laboratory classes, projects

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

written control work, current tests during laboratory classes and projects

Basic Bibliography:

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Additional Bibliography:

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