

Title Identification of Organic Compounds	Code 1010701361010720582
Field Environmental Protection Technologies	Year / Semester 3 / 6
Specialty -	Course core
Hours Lectures: 2 Classes: - Laboratory: 2 Projects / seminars: -	Number of credits 4
	Language polish

Lecturer:

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Status of the course in the study program:

fundamental

Assumptions and objectives of the course:

The student should attain the knowledge on fundamentals of absorption spectroscopy (UV, IR, NMR) and mass spectrometry as well as on the applications of the above methods in the determination of the structure of organic compounds.

Contents of the course (course description):

Students are instructed in the problems of the utilization of influence of electromagnetic radiation on the molecules of organic species. The possibilities of application of these phenomena for identification of organic compounds - the fundamentals of UV/Vis, IR, NMR and MS spectroscopies - are presented and discussed. The sample preparation is extensively discussed and practised during lab classes. The range of presented knowledge enables the independent interpretation of the respective spectra. Students should achieve the basic service skills connected with the common spectral equipment.

Introductory courses and the required pre-knowledge:

organic and physical chemistry on academic level

Courses form and teaching methods:

lectures, laboratory classes

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

written control work - theoretical background, current tests during Laboratory Classes

Basic Bibliography:

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Additional Bibliography:

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