

Title Methods of Analysis of Organic Compounds	Code 1010701251010720418
Field Chemical Technology	Year / Semester 3 / 5
Specialty -	Course core
Hours Lectures: 2 Classes: - Laboratory: - Projects / seminars: -	Number of credits 2
	Language polish

Lecturer:

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Faculty:

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Status of the course in the study program:

Methods of Analysis of Organic Compounds

Assumptions and objectives of the course:

Students will obtain knowledge of the theoretical and practical aspects of absorption spectroscopy of UV/VIS, IR, NMR and mass spectroscopy (MS). The knowledge of these methods is useful to determine the structure of organic compounds.

Contents of the course (course description):

The course of identification of organic compounds introduces students to the problems of various applications of the electromagnetic radiation interaction to organic compounds and its possibility for identification of organic compounds. The basic aim of theoretical aspects of absorption spectroscopy of UV/VIS, IR, ¹H-NMR, ¹³C-NMR and mass spectrometry (MS) is needed to understand the principles of spectroscopy and spectrometry. The main goal is the training in an individual interpretation of UV/VIS, IR, NMR and MS spectra. The basics of practical aspects of experimental techniques are needed to operate the typical spectrometers and to contact with operators of high quality apparatuses.

Introductory courses and the required pre-knowledge:

Knowledge of the organic chemistry is needed.

Courses form and teaching methods:

Lectures with the use of PowerPoint programme.

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

Written control works allow checking theoretical background after each class of spectroscopy.

Basic Bibliography:

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Additional Bibliography:

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