

**86S1-TIWCH**

**INFORMATION TECHNOLOGIES IN CHEMISTRY**

**ECTS: 2.0**

**HOURS PER SEMESTER/WEEK:** LECTURES: -/-; CLASSES: 30/2

**FIELD OF THE STUDY:** Chemistry

**Level of study:** First-cycle (Bachelor's degree) program

**Course status:** obligatory \*

**Year of the study:** I

#### **COURSE CONTENTS**

**LECTURES:** -

**CLASSES:** Discuss on the WINDOWS operating system. Theoretical introduction to text editor - MS WORD. Practical exercises in Microsoft Word (document formatting, tables, serial correspondence). Theoretical introduction to MS Excel worksheet. Practical exercises (calculating formulas, functions, creating graphs and tables). Theoretical introduction to MS POWER POINT program. Practical exercises: creating animations, presenting data on graphs and tables. Preparing a presentation on a given topic in poster (A0 format) in Power Point program.

**EDUCATIONAL PURPOSE:** Transfer of knowledge on the use of basic computer programs for support of various aspects of activity in the field of chemistry.

#### **LEARNING OUTCOMES**

**Knowledge.** The student demonstrates knowledge in the use of computer software, including for the preparation of statistical data to the extent relevant for widely understood chemistry.

**Skills.** Student applies information technology in acquiring and processing of chemical information and presents developed materials using information technology tools.

**Social competences.** The student is aware of the need for continued education and self-improvement in information technology support in order to perform effectively in the profession.

#### **TEACHING FORMS AND METHODS**

**Lectures.** -

**Classes.** Practical exercises in the computer classes.

#### **FORM AND CONDITIONS FOR VERIFICATION OF LEARNING OUTCOMES**

**Lectures.** -

**Classes.** Credit with a grade: Word, Excel, Power Point.

#### **BASIC LITERATURE**

1) Jaronicki A. ABC MS Office 2016 PL, Helion, 2) Lambert J. Microsoft Word 2016, Promise, 3) Walkenbach J. Excel 2016 PL. Biblia, Helion, 4) Tomaszewska A. ABC Power Point 2016, Helion

#### **ADDITIONAL LITERATURE**

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#### **THE TEACHER/TEACHERS CONDUCTING THE CLASSES:**

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