

Course title: **Technical terminology for chemical engineers**

Institute/Division: **FACULTY OF CHEMICAL ENGINEERING AND TECHNOLOGY**

Number of contact hours: **30 hours** (15 h lectures & 15 h seminars)

Course duration: 1 semester (5th semester of regular I cycle studies - fall)

ETCS credits: **3**

Course description:

The course covers the basics and also more advanced topics on specific English nomenclature used in chemical engineering and technology. Additionally, some specific nomenclature relevant in different fields will be discussed as well. The first part of the course is composed of 7 lectures. They are focused on the basic nomenclature of both organic and inorganic compounds (1-3) and nomenclature of engineering units and equipment (4). Specific English terminology will be also presented on examples relevant for catalysis (5), spectroscopic methods (6) and quantum chemistry methods (7). The second part of the course has a seminary character. Students will be asked to prepare a presentation on any topic they like, as long as it is somehow related with science. Each student will deliver its own speech. Students will be also strongly encouraged to participate in a discussion afterwards. On the last meeting, students will write a test. The final note will depend on the test result, presentation and participation in discussion.

Education effects :

- knowledge : Student has knowledge on basic nomenclature of organic and inorganic compounds. He/She knows how to name engineering units, knows merits and drawbacks of different spectroscopic and quantum chemistry methods.
- skills: Student can participate in a discussion and use specific English terminology. He/She can talk about a specific scientific problem and understand simple technical terms (jargon).
- social: Student is able to work independently and in the group when solving the problems.

Literature: [1] notes from lectures
[2] materials delivered on classes
[3] student's own literature survey

Assessment method: presentation & final test

Prerequisites: Basic course on general, inorganic and organic chemistry. Basic skills in English including reading, speaking and listening.

Primary target group: Students from all specialties

Lecturer: **dr inż. Maciej Gierada**

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Remarks: Regular course