

Course title
Podstawy aparatury chemicznej / Basics of chemical apparatus

ECTS code
13.3.0896

Name of unit administrating study

Faculty of Chemistry

Studies				
Field of study	Type	Form		
Chemical Business	Bachelor / Engineer	Full-time studies		

Teaching staff

Prof. dr hab. inż. Adriana Zaleska-Medvnska

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Forms of classes, the realization and number of hours	ECTS credits 4		
A. Forms of classes, in accordance with the UG Rector's regulations lecture, auditorium classes, laboratory classes	classes - 45 h tutorial classes - 15 h		
B. The realization of activities in-class learning	student's own work – 40 h Total: 100 h - 4 ECTS		
C. Number of hours 45 h (15 h lecture, 15 h auditorium classes, 15 h laboratory classes)			

The academic cycle

2020/21 winter semester

Type of course obligatory	Language of instruction Polish
Teaching methods	Form and method of assessment and basic criteria for evaluation or examination requirements
Auditorium exercises: project implementation Laboratory exercises: tests, practical work and presentation of results in the form of a written report Lecture: written exam with open questions	A. Final evaluation, in accordance with the UG study regulations lecture – exam auditorium classes – course completion (with a grade) B. Assessment methods - lecture: written exam with open questions - auditorium exercises: project implementation - laboratory exercises: tests, practical work and presentation of results in the form of a written report C. The basic criteria for evaluation or exam requirements

Required courses and introductory requirements

Technical Drawing, mathematics, physics

Aims of education

- familiarize students with all the issues mentioned in the lecture's program content
- developing skills of critical evaluation and interpretation of the work parameters of the discussed devices and analysis of source texts

Bibliography of literature

A. Literature required to pass the course

Błasiński H., Młodziński B. - Aparatura przemysłu chemicznego, WNT 1983,

Pikoń J., - Aparatura chemiczna, PWN 1978

Bieszk H., Urządzenia do realizacji procesów mechanicznych w technologii chemicznej, Wyd. PG. 2001,

Bieszk H., Urządzenia do realizacji procesów cieplnych w technologii chemicznej, Wyd. PG. 2010.

B. Extracurricular readings



Knowledge

Student:

- 1. defines and presents the construction of typical technological devices
- 2. describes, illustrates and explains their functioning
- 3. characterizes the basic parameters of their work
- 4. understands the relationships and dependencies between their operation and construction

Skills

Student:

- 1. uses terminology to present (in written and oral form) the content of the subject
- 2. knows the operation of devices based on their graphic schemes
- 3. uses the basic computational techniques used in designing
- 4. analyzes the results of calculations, draws conclusions about the correctness of their operation

Social competence

Student:

- 1. Understands the need for continuous education,
- 2. is aware of the need for honest and reliable work,
- 3. appreciates the need to be able to work in a team in accordance with its role in it,
- 4. is aware of the need for a critical analysis of own work
- 5. shows cautious criticism in receiving information, especially available in the mass media