

Subject card

| | | | | | | | |
|--|---|--|-------------------------|-------------------------------------|--|------------|-----|
| Subject name and code | Basics of chemical apparatus, PG_00052425 | | | | | | |
| Field of study | Chemical Business | | | | | | |
| Date of commencement of studies | October 2024 | Academic year of realisation of subject | | | 2025/2026 | | |
| Education level | Bachelor's studies | Subject group | | | Obligatory subject group in the field of study | | |
| Mode of study | full-time studies | Mode of delivery | | | at the university | | |
| Year of study | 2 | Language of instruction | | | Polish | | |
| Semester of study | 3 | ECTS credits | | | 1.0 | | |
| Learning profile | academic | Assessment form | | | credit | | |
| Conducting unit | Department of Environmental Technology -> Faculty of Chemistry -> Rector | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Paweł Mazierski | | | | |
| | Teachers | | dr inż. Paweł Mazierski | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 0.0 | 15.0 | 0.0 | 0.0 | 0.0 | 15 |
| | E-learning hours included: 0.0 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | | Participation in consultation hours | | Self-study | SUM |
| | Number of study hours | 15 | | 2.0 | | 8.0 | 25 |
| Subject objectives | <ul style="list-style-type: none"> - 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 | | | | | | |

| | | | |
|--|--|---|---|
| Learning outcomes | Course outcome | Subject outcome | Method of verification |
| | [BCHINŻ_K02] Works individually demonstrating initiative and independence in actions, and effectively cooperates in a team, performing various roles in it. | - Understands the need for continuous education, - is aware of the need for honest and reliable work, - appreciates the need to be able to work in a team in accordance with its role in it, - is aware of the need for a critical analysis of own work - shows cautious criticism in receiving information, especially available in the mass media | [SK8] observation of student's independent or team work |
| | [BCHINŻ_U02] Uses basic methods, techniques and tools in formulating and solving engineering tasks in the field of chemistry. | - uses terminology to present (in written and oral form) the content of the subject | [SU1] oral statement/conversation/discussion |
| | [BCHINŻ_U05] Evaluates the usefulness and functioning of existing engineering and technical solutions as well as research and measurement methods in the chemical industry. | - knows the operation of devices based on their graphic schemes | [SU8] observation of student's independent or team work |
| | [BCHINŻ_W07] Describes the construction and operating principles of basic scientific, technological and control-measuring apparatus. | - defines and presents the construction of typical technological devices - describes, illustrates and explains their functioning - characterizes the basic parameters of their work - understands the relationships and dependencies between their operation and construction | [SW2] presentation/project/paper/report |
| [BCHINŻ_U01] On the basis of the acquired knowledge, identifies, analyses and solves engineering tasks and problems in broadly understood chemistry. | - analyzes the results of calculations, draws conclusions about the correctness of their operation - uses the basic computational techniques used in designing | [SU2] presentation/project/paper/report [SU8] observation of student's independent or team work | |
| Subject contents | Issues of auditorium exercises: includes the presentation of the methodology of calculation and selection of selected machines and apparatuses as well as the presentation of problems related to the development of the apparatus part of the process design. | | |
| Prerequisites and co-requisites | - Technical Drawing - Mathematics, physics, chemistry | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Project | 51.0% | 100.0% |
| Recommended reading | Basic literature | A.1. used during classes A.2. studied independently by the student | |
| | Supplementary literature | 1. Błasiński H., Młodziński B. - Aparatura przemysłu chemicznego, WNT 1983, 2. Pikoń J., - Aparatura chemiczna, PWN 1978, 3. Bieszk H., Urządzenia do realizacji procesów mechanicznych w technologii chemicznej, Wyd. PG. 2001, 4. Bieszk H., Urządzenia do realizacji procesów cieplnych w technologii chemicznej, Wyd. PG. 2010 | |
| | eResources addresses | | |
| Example issues/ example questions/ tasks being completed | | | |
| Work placement | Not applicable | | |

Document generated electronically. Does not require a seal or signature.