



Subject card

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|---|---|--|--|-------------------------------------|--|------------|-----|
| Subject name and code | Engineering Diploma Project, PG_00058319 | | | | | | |
| Field of study | Biotechnology | | | | | | |
| Date of commencement of studies | October 2020 | | Academic year of realisation of subject | | 2023/2024 | | |
| Education level | first-cycle studies | | Subject group | | Optional subject group | | |
| Mode of study | Full-time studies | | Mode of delivery | | at the university | | |
| Year of study | 4 | | Language of instruction | | Polish | | |
| Semester of study | 7 | | ECTS credits | | 15.0 | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Department of Pharmaceutical Technology and Biochemistry -> Faculty of Chemistry | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr hab. inż. Tomasz Laskowski | | | | |
| | Teachers | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 0.0 | 0.0 | 0.0 | 0.0 | 30.0 | 30 |
| | 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 | 30 | | 50.0 | | 295.0 | 375 |
| Subject objectives | The aim of this course is to conduct scientific research, finally presented in a form of engineer dissertation. | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | K6_K01 | | Student systematically and thoroughly conducts the scientific experiments, which are set to solve a stated problem and to describe the outcome in a form of longer dissertation. | | [SK2] Assessment of progress of work [SK3] Assessment of ability to organize work | | |
| | K6_U11 | | Student is able to exploit computer software for data processing and visualisation. | | [SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information | | |
| | K6_K06 | | Student makes constant progress, which is processed on the way in a form of lab notebook. | | [SK2] Assessment of progress of work [SK3] Assessment of ability to organize work | | |
| | K6_W08 | | Student understands the basic concepts of natural sciences constituting the biotechnology. | | [SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects | | |
| | K6_U08 | | Student is able to propose a path to solve a given problem based on conducted literature studies. | | [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task | | |
| Subject contents | Depending on the topic: | | | | | | |
| | <ul style="list-style-type: none">spectroscopic studies, aided by chemometric analyses,NMR spectroscopy studies. | | | | | | |
| Prerequisites and co-requisites | Basics of spectroscopy, work with computers and spreadsheets. | | | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | Percentage of the final grade | | |
| | | | 60.0% | | 100.0% | | |
| Recommended reading | Basic literature | | Provided by supervisor. | | | | |
| | Supplementary literature | | Provided by supervisor. | | | | |

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| | eResources addresses | Adresy na platformie eNauczenie: |
| Example issues/ example questions/ tasks being completed | | |
| Work placement | Not applicable | |