Subject card

| Subject name and code | Electronics, PG_00040183 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Field of study | Mechanical Engineering |  |  |  |  |  |  |
| Date of commencement of studies | October 2022 |  | Academic year of realisation of subject |  |  | 2023/2024 |  |
| Education level | first-cycle 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 |  |  | English |  |
| Semester of study | 4 |  | ECTS credits |  |  | 2.0 |  |
| Learning profile | general academic profile |  | Assessment form |  |  | assessment |  |
| Conducting unit | Department of Microelectronic Systems -> Faculty of Electronics, Telecommunications and Informatics |  |  |  |  |  |  |
| Name and surname of lecturer (lecturers) | Subject supervisor |  | dr inż. Piotr Kurgan |  |  |  |  |
|  | Teachers |  | dr inż. Piotr Kurgan |  |  |  |  |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|  | Number of study hours | 15.0 | 0.0 | 15.0 | 0.0 | 0.0 | 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 |  | 6.0 |  | 14.0 | 50 |
| Subject objectives | The objective of the course is to introduce a student to the basics of electronics. |  |  |  |  |  |  |
| Learning outcomes | Course outcome |  | Subject outcome |  |  | Method of verification |  |
|  | K6_U05 |  | Student is able to conduct basic measurements of electrical quantities. Is able to perform computer-aided simulations of analog electronic circuits. Is capable of experimental verification of the operation of analog electronic circuits. |  |  | [SU3] Assessment of ability to use knowledge gained from the subject <br> [SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task |  |
|  | K6_W10 |  | Student possesses an elementary knowledge on electronics, including basic laws of circuit and signal theory, knows laws of electromagnetism, and knows operation mechanisms and properties of basic semiconductor devices. |  |  | [SW1] Assessment of factual knowledge |  |



