GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

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|---|---|---|---|
| Subject name and code | Seminar of applied physics I, PG_00037287 | | |
| Field of study | Technical Physics | | |
| Date of commencement of studies | October 2025 | Academic year of realisation of subject | 2026/2027 |
| Education level | first-cycle studies | Subject group | Optional subject group<br>Subject group related to scientific research 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 | 4 | ECTS credits | 1.0 |
| Learning profile | general academic profile | Assessment form | assessment |
| Conducting unit | Department of Atomic Physics and Luminescence -> Faculty of Applied Physics and Mathematics -> Faculties of Gdańsk University of Technology | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr inż. Sebastian Bielski | |
| | Teachers | | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 0.0 | 0.0 | 0.0 | 0.0 | 15.0 | 15 |

E-learning hours included: 0.0

eNauczanie source addresses:

Moodle ID: 2906 Seminarium fizyki stosowanej I (od 2025/26)
https://enauczanie.pg.edu.pl/2025/course/view.php?id=2906

**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**

Teaching students how to prepare and deliver a presentation on a given or chosen topic and how to discuss.

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [K6_U08] can prepare written works and speeches in Polish and English, concerning detailed issues of physics and related fields, and scientific disciplines | The student is able to prepare a presentation on a selected physics topic, deliver it and take part in a discussion. | [SU5] Assessment of ability to present the results of task |
| [K6_K05] presents own work results, transfers information in a commonly understandable manner, communicate and self-evaluate, as well as constructively evaluate the effects of other persons' work | The student is able to present prepared information in an understandable way and to take part in a discussion. | [SK4] Assessment of communication skills, including language correctness |
| [K6_U01] learns independently, obtains information from literature, databases and other properly selected sources | The student is able to acquire and use information from various resources. | [SU2] Assessment of ability to analyse information |
| [K6_U07] presents facts within the scope of physics and other scientific disciplines in a clear manner | The student can present prepared information in an understandable way. | [SU5] Assessment of ability to present the results of task |

**Subject contents**

Course content – seminar
Preparation of a scientific presentation on a selected topic and its delivery.

Discussion and commenting on presentations.

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">Basic knowledge of various branches of physics.</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>attendance</td><td>80.0%</td><td>0.0%</td></tr><tr><td>preparation and delivery of a presentation</td><td>50.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Depending on the topic of the presentation.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">None</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">Dark matter;<br><br>Dark energy<br><br>Atomic models;<br><br>Antimatter;<br><br>Cold fusion;<br><br>Biomolecules</td></tr>
<tr><td>Practical activites within the subject</td><td colspan="3">Not applicable</td></tr>
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