

Subject card

| Subject name and code | Physics II, PG_00039935 | | | | | | | |
|---|---|---|--|------------|----------------|--|---------|-----|
| Field of study | Management and Production Engineering, Management and Production Engineering | | | | | | | |
| Date of commencement of studies | October 2020 | | Academic year of realisation of subject | | | 2020/2021 | | |
| Education level | | | 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 | 1 | | Language of instruction | | | Polish | | |
| Semester of study | 2 | | ECTS credits | | | 1.0 | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | |
| ŭ i | | | nlied Ph | | | | | |
| Conducting unit | Subject supervisor | Phenomena -> Faculty of Applied Physics and Mathematics dr hab. Tomasz Wąsowicz | | | | | | |
| Name and surname of lecturer (lecturers) | Teachers | | dr hab. Tomasz Wąsowicz | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM |
| of instruction | Number of study hours | 15.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 15 |
| | E-learning hours inclu | ıded: 0.0 | | • | • | | • | • |
| | Adresy na platformie eNauczanie: Wykład FIZYKA II dla ZiIP 20/21 sem. letni - Moodle ID: 13854 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13854 | | | | | | | |
| Learning activity and number of study hours | Learning activity Participation in classes include plan | | | | Self-study SUM | | SUM | |
| | Number of study hours | 15 | | 2.0 | | 8.0 | | 25 |
| Subject objectives | Presentation of physical phenomena related to: elasticity, hydrostaics, hydrodynamics, thermodynamics,, electromagnetic waves, structure of matter. | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | |
| | K6_K03 | | Student thinks critically | | | [SK5] Assessment of ability to solve problems that arise in practice | | |
| | K6_U02 | | Sudent can learn and applicate the knowdlege to solve engineering problems | | | [SU3] Assessment of ability to use knowledge gained from the subject | | |
| | K6_W01 | | Student has an abilitiy of solving | | | [SW1] Assessment of factual knowledge | | |
| Subject contents | Electromagnetism: the movment of electrical charge through the the electromagnetic field; An electric motor, electric generator; magnetism of the matter. Atom structure, Bohr model of hydrogen atom, energy levels. Spectroscopy: absorption and emission spectrum, prism and grating spectrometers. Angular momentum and spin of electron, orbitals, quantum numbers. Classification of elements: multielectron atom, Pauli's exlusion principle, periodic table of the elements. The atomic nucleus and its properties; radioactive decays. Electromagnetic waves (EW), difraction, interference and polarization of EW, the corpuscular theory of light. | | | | | | | |
| Prerequisites and co-requisites | Course credit Physics I - E (07001W0) and Physics I (07021C0) | | | | | | | |
| Assessment methods | Subject passing criteria | | Passing threshold | | | Percentage of the final grade | | |
| and criteria | | | 50.0% | | | 100.0% | | |
| Recommended reading | Basic literature | | 1. Cz. Bobrowski, Fizyka, WNT, Warszawa 1979, 1993 2. J.Orear, Fizyka t. 1,2, WNT Warszawa | | | | | |
| | Supplementary literature | | 1. D.Halliday, R.Resnick, J. Walker, Podstawy fizyki t. 2,4, 5, PWN | | | | | |
| | eResources addresses | | Wykład FIZYKA II dla ZiIP 20/21 sem. letni - Moodle ID: 13854 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13854 | | | | | |

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| Example issues/ example questions/ tasks being completed | wave theoryv of light; Young's the double-slit experiment |
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| Work placement | Not applicable |

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