



Subject card

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|---|--|--|--|-------------------------------------|--|--|-----|
| Subject name and code | Space Security Technologies, PG_00050013 | | | | | | |
| Field of study | Space and Satellite Technologies | | | | | | |
| Date of commencement of studies | February 2025 | Academic year of realisation of subject | | | 2024/2025 | | |
| Education level | second-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 | 1 | Language of instruction | | | Polish | | |
| Semester of study | 1 | ECTS credits | | | 2.0 | | |
| Learning profile | general academic profile | Assessment form | | | assessment | | |
| Conducting unit | | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr hab. Grzegorz Krasnodębski | | | | |
| | Teachers | | dr hab. Grzegorz Krasnodębski | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 15.0 | 0.0 | 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 | | 5.0 | | 15.0 | 50 |
| Subject objectives | Obtaining the knowledge on space technologies used in security and defense | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | |
| | [K7_U08] Considers safety aspects when solving a specific engineering problem in the field of space and satellite technologies. | | Student is able to take into account the safety aspects while solving an engineering problem in the field of space and satellite technologies. | | | [SU3] Assessment of ability to use knowledge gained from the subject | |
| | [K7_K02] Understands the non-technical aspects of activities in the field of space and satellite technologies, including their social consequences and impact on the state of the environment. Expresses opinions on the development of technology and related risks. | | Student understands the non-technical aspects of activities in the field of space safety technologies and systems, including their social consequences and impact on the state of the environment. | | | [SK3] Assessment of ability to organize work | |
| | [K7_W07] Has knowledge of technical standards and norms in the space sector. Knows the objectives, main programs and principles of functioning of the European (ESA) and national (POLSA) institutions regulating, supervising and stimulating activity in the space industry. Knows space and satellite applications in security systems. | | Student knows the rules of security and safety policy with respect to space and satellite technologies, on national and European level. | | | [SW1] Assessment of factual knowledge | |
| Subject contents | Space policy. Global Monitoring for Environment and Security. Satellite systems of monitoring and early warning. Satellite communications services for civil protection systems, e-government and search and rescue actions. Space systems for risk prevention. Military satellite systems. | | | | | | |
| Prerequisites and co-requisites | none | | | | | | |

| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
|--|--------------------------|--|-------------------------------|
| | | 50.0% | 50.0% |
| | | 50.0% | 30.0% |
| | | 50.0% | 20.0% |
| Recommended reading | Basic literature | Specht C., System GPS (in Polish), Biblioteka Nawigacji series, Bernardinum, Pelplin 2007 | |
| | Supplementary literature | Technical documentation of selected space and satellite systems used in security and defense | |
| | eResources addresses | Adresy na platformie eNauczanie: | |
| Example issues/ example questions/ tasks being completed | | | |
| Work placement | Not applicable | | |

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