

Subject card

| Subject name and code | Applied mathematics, PG_00049164 | | | | | | | | |
|---|---|---|---|-------------------------------------|--------|--|---------|-----|--|
| Field of study | Spatial Development | | | | | | | | |
| Date of commencement of studies | October 2021 | | Academic year of realisation of subject | | | 2022/2023 | | | |
| 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 | | | Polish | | | |
| Semester of study | 3 | | ECTS credits | | | 4.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | | |
| Conducting unit | Department of Visual Techniques -> Faculty of Architecture | | | | | | | | |
| Name and surname | Subject supervisor | | dr inż. arch. Anna Wancław | | | | | | |
| of lecturer (lecturers) | Teachers | | dr inż. arch. Anna Wancław | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM | |
| | Number of study hours | 30.0 | 15.0 | 0.0 | 0.0 | | 0.0 | 45 | |
| | E-learning hours inclu | uded: 0.0 | | | | | | , | |
| Learning activity and number of study hours | Learning activity | Participation in classes include plan | | Participation in consultation hours | | Self-study | | SUM | |
| | Number of study hours | 45 | | 6.0 | | 49.0 | | 100 | |
| Subject objectives | Increasing knowledge and develop skills for making three-dimensional space and the methods of preparation and reading terrain visualization used in land management. | | | | | | | | |
| Learning outcomes | Course outcome Subject outcome Method of verification | | | | | | | | |
| | [K6_U01] has the ability to abstractly understand technical problems; applies basic mathematical and simulation methods in urban planning and spatial planning | | He can attractively present the effects of his work in the form of perspective sketches and digital visualizations. | | | [SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task | | | |
| | K6_U04 | | Can freely determine the surface topography of land, and plan simple engineering tasks. | | | | | | |
| | [K6_W03] has elementary knowledge in the field of mathematics and physics relating to issues related to space management, including the basic mathematical methods used in urban design, as well as analytical and design methods using information technology used in planning processes of settlement structures | | He knows the graphic methods of | | | [SW1] Assessment of factual knowledge | | | |
| Subject contents | The use of horizontal projection in earthworks: topographic surface, design of squares and roads in the area, geometric solutions for road and square drainage. Perspective, basics of freehand structures and digital visualization of the urban landscape. Geometrical illusions in architecture and urban planning | | | | | | | | |
| Prerequisites and co-requisites | completion module S | CIENCES, GR | APHIC ART AI | ND PRESENTA | ATION | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | | Percentage of the final grade | | | |
| | Correctness and app tasks | eal of design | n 100.0% | | | | | | |
| Recommended reading | Basic literature Iwan Kernicki, Projektowanie geometryczne placów budowlanych i dróg dojazdowych. Wydawnictwo SGGW, Warszawa 2008 | | | | | | | | |

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| | Supplementary literature | Z. Andrzejowski, W. Pawłowski, S. Przewłocki, <i>Geometria wykreślna w praktyce inżynierskiej,</i> Wyd PŁ, 2002 J.Waligórski, Zasady i zastosowania rzutu cechowanego, WNT, Warszawa, 1961 | | | |
|--|---|---|--|--|--|
| | eResources addresses | Adresy na platformie eNauczanie: | | | |
| | | Matematyka Stosowana. Grafika inzynierska - zastosowania, 2022/23 - Moodle ID: 25716 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=25716 | | | |
| Example issues/ example questions/ tasks being completed | The project road drainage. | | | | |
| | Land leveling project - landscaping with different heights (recreational areas, entrance to the underground garage). Perspective sketch of small architecture objects. | | | | |
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| Work placement | Not applicable | | | | |

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