



## Subject card

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|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Building installation elements project I, PG_00061532                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                          |                                                                                                                                                             |                                     |                                                                                                                                 |            |     |
| Field of study                              | Architecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          |                                                                                                                                                             |                                     |                                                                                                                                 |            |     |
| Date of commencement of studies             | October 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          | 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                               | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          | Language of instruction                                                                                                                                     |                                     | English                                                                                                                         |            |     |
| Semester of study                           | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          | ECTS credits                                                                                                                                                |                                     | 2.0                                                                                                                             |            |     |
| Learning profile                            | general academic profile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          | Assessment form                                                                                                                                             |                                     | assessment                                                                                                                      |            |     |
| Conducting unit                             | Department of Technical Fundamentals of Architectural Design -> Faculty of Architecture -> Faculties of Gdańsk University of Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          |                                                                                                                                                             |                                     |                                                                                                                                 |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                          |                                                                                                                                                             |                                     |                                                                                                                                 |            |     |
|                                             | Teachers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          |                                                                                                                                                             |                                     |                                                                                                                                 |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lecture                                                  | Tutorial                                                                                                                                                    | Laboratory                          | Project                                                                                                                         | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.0                                                      | 0.0                                                                                                                                                         | 0.0                                 | 30.0                                                                                                                            | 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                                                       |                                                                                                                                                             | 4.0                                 |                                                                                                                                 | 16.0       | 50  |
| Subject objectives                          | <p>To familiarize oneself with the branch design issues in the field of building technical equipment and their influence on the architecture of the object.</p> <p>Acquiring skills of analyzing external conditions for the designed object and preparing it for installation of properly selected building installations with it.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          |                                                                                                                                                             |                                     |                                                                                                                                 |            |     |
| Learning outcomes                           | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                          | Subject outcome                                                                                                                                             |                                     | Method of verification                                                                                                          |            |     |
|                                             | [K6_U04] is able to use analytical methods to formulate and solve project tasks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                          | is able to use analytical methods to formulate and solve design tasks; is able to develop solutions for individual building elements in terms of technology |                                     | [SU4] Assessment of ability to use methods and tools                                                                            |            |     |
|                                             | [K6_W01] knows and understands construction problems, building and engineering issues related to building design; principles, solutions, constructions and building materials used in simple engineering tasks in the field of architectural and urban design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          | A student learns about branch design issues in the field of building technical equipment and their impact on the architecture of the building.              |                                     | [SW2] Assessment of knowledge contained in presentation<br>[SW3] Assessment of knowledge contained in written work and projects |            |     |
| Subject contents                            | <p>Course content – project</p> <p>In the course of classes, students carry out assigned design tasks on architectural issues related to the preparation of the object for installation of various types of building systems with it.</p> <p>The general scope of design tasks performed in class:</p> <ul style="list-style-type: none"><li>- designed installations in the building - survey of installations present in the building</li><li>- analysis of the floor plan containing technical rooms</li><li>- analysis of the roof projection with indication of the location of installation elements</li><li>- detail of the installation shaft (water and sewage, DHW, water supply, central heating)</li><li>- problems of smoke removal from the building</li><li>- pro-ecological solutions in the designed building</li><li>- mechanical ventilation in the building.</li></ul> |                                                          |                                                                                                                                                             |                                     |                                                                                                                                 |            |     |

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| Prerequisites and co-requisites                                |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                            |                               |
| Assessment methods and criteria                                | Subject passing criteria                                                                                                                                                                                                                                                                                                                                             | Passing threshold                                                                                                                                                                                                                                                          | Percentage of the final grade |
|                                                                | exercises task evaluation                                                                                                                                                                                                                                                                                                                                            | 100.0%                                                                                                                                                                                                                                                                     | 100.0%                        |
| Recommended reading                                            | Basic literature                                                                                                                                                                                                                                                                                                                                                     | <i>Ustawa Prawo Budowlane</i> wraz z przepisami wykonawczymi (przepisy techniczne)<br><br>Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie. (Dz. U. Nr 75, poz. 2351) |                               |
|                                                                | Supplementary literature                                                                                                                                                                                                                                                                                                                                             | Borysiuk S., Sanitarno-higieniczne zasady projektowania zakładów gastronomicznych i obiektów handlowych (miejsc obrotu) z artykułami żywnościowymi, opracowanie. PZITS, Warszawa 1999.                                                                                     |                               |
|                                                                | eResources addresses                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                            |                               |
| Example issues/<br>example questions/<br>tasks being completed | Develop a survey of the systems present in the building.<br><br>Securing required technical rooms in the building.<br><br>Preparation of a drawing of a roof plan with an indication of the rain water drainage method.<br><br>Preparation of the drawing of the underground storey with indication of the technical rooms for connection to the municipal networks. |                                                                                                                                                                                                                                                                            |                               |
| Practical activities within the subject                        | Not applicable                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                            |                               |

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