



## Subject card

|   |  |  |   |                                     |         |  |     |
|---|--|--|---|-------------------------------------|---------|--|-----|
| Subject name and code                       | Diagnostics and repairs of concrete structures, PG_00045884                                    |  |   |                                     |         |  |     |
| Field of study                              | Civil Engineering  |  |   |                                     |         |  |     |
| Date of commencement of studies             | February 2025  |  | Academic year of realisation of subject |                                     |         | 2025/2026  |     |
| Education level                             | second-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                               | 1  |  | Language of instruction                 |                                     |         | Polish   |     |
| Semester of study                           | 2  |  | ECTS credits                            |                                     |         | 3.0  |     |
| Learning profile                            | general academic profile   |  | Assessment form                         |                                     |         | assessment   |     |
| Conducting unit                             | Department of Concrete Structures -> Faculty of Civil and Environmental Engineering            |  |   |                                     |         |  |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor   |  | dr hab. inż. Maciej Niedostatkiwicz     |                                     |         |  |     |
|   | Teachers   |  |   |                                     |         |  |     |
| Lesson types and methods of instruction     | Lesson type  | Lecture  | Tutorial                                | Laboratory                          | Project | Seminar  | SUM |
|   | Number of study hours  | 30.0   | 15.0                                    | 0.0                                 | 0.0     | 0.0  | 45  |
|   | 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  | 45   |   | 5.0                                 |         | 25.0   | 75  |
| Subject objectives                          | Extending the skills of diagnostics of elements of concrete and reinforced concrete structures |  |   |                                     |         |  |     |

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| Learning outcomes  | Course outcome   | Subject outcome   | Method of verification  |
|  | [K7_W16] knows methods of diagnostics of engineering objects, has knowledge about different kinds of defects in constructions and its reasons; knows means of fixing and reinforcing of constructions. |   | [SW1] Assessment of factual knowledge<br>[SW2] Assessment of knowledge contained in presentation<br>[SW3] Assessment of knowledge contained in written work and projects  |
|  | [K7_U02] can design and dimension complex steel, concrete (including reinforced), wood and masonry constructions and its details   |   | [SU1] Assessment of task fulfilment<br>[SU2] Assessment of ability to analyse information<br>[SU3] Assessment of ability to use knowledge gained from the subject<br>[SU4] Assessment of ability to use methods and tools<br>[SU5] Assessment of ability to present the results of task |
|  | [K7_W02] knows principles of analysis, design and dimensioning of complex constructions and its elements   |   | [SW1] Assessment of factual knowledge<br>[SW2] Assessment of knowledge contained in presentation<br>[SW3] Assessment of knowledge contained in written work and projects  |
|  | [K7_U16] is able to estimate the technical condition of engineering object; can interpret the results of constructions and materials examination;  |   | [SU1] Assessment of task fulfilment<br>[SU3] Assessment of ability to use knowledge gained from the subject<br>[SU5] Assessment of ability to present the results of task   |
|  | [K7_K02] Rocognizes the significance of knowledge in solving cognitive and practical problems; reliably evaluates results of his own and team research   |   | [SK5] Assessment of ability to solve problems that arise in practice<br>[SK1] Assessment of group work skills<br>[SK2] Assessment of progress of work   |
| Subject contents   | Advanced diagnostics of elements of concrete and reinforced concrete structures  |   |   |
| Prerequisites and co-requisites                                |  |   |   |
| Assessment methods and criteria                                | Subject passing criteria   | Passing threshold   | Percentage of the final grade   |
|  | test   | 50.0%   | 100.0%  |
| Recommended reading  | Basic literature   | As for the subject of Concrete Structures and General Construction                  |   |
|  | Supplementary literature   | As for advanced topics in the field of Concrete Structures and General Construction |   |
|  | eResources addresses   | Adresy na platformie eNauczanie:  |   |
| Example issues/<br>example questions/<br>tasks being completed |  |   |   |
| Work placement   | Not applicable   |   |   |

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