

Subject card

| Subject name and code | Corrosion Monitoring and NDT, PG_00048914 | | | | | | | |
|--|---|---|---|--------------------------------|-------------------------------|---------------------------------------|--|----------|
| Field of study | Chemistry in Construction Engineering | | | | | | | |
| Date of commencement of studies | October 2022 | | Academic year of realisation of subject | | | 2024/2025 | | |
| Education level | first-cycle studies | | Subject group | | | | | |
| Mode of study | Full-time studies | | Mode of delivery | | | at the university | | |
| Year of study | 3 | | Language of instruction | | | Polish | | |
| • | 5 | | ECTS credits | | | 3.0 | | |
| Semester of study | general academic profile | | Assessment form | | | assessment | | |
| Learning profile | | | | | | | | |
| Conducting unit | Department of Electrochemistry, Corrosion and Materials Engineering -> Faculty of Chemistry | | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor prof. dr hab. inż. Juliusz Orlikowski Teachers | | | | | | | |
| Lesson types and methods of instruction | | Lecture | Tutorial Laboratory Project | | | t Seminar SUM | | |
| | Lesson type Number of study | 15.0 | 0.0 | 15.0 | 0.0 | 0.0 | | 30 SOIVI |
| | hours | 10.0 | 0.0 | 10.0 | 0.0 | | | |
| | E-learning hours included: 0.0 | | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in classes include plan | | Participation i consultation h | | Self-study | | SUM |
| | Number of study hours | 30 | | 5.0 | | 40.0 | | 75 |
| Subject objectives | Mastering the theoretical and practical basis for the nodestructive testing and corrosion monitoring | | | | | | | |
| Learning outcomes | Course out | Subject outcome | | | Method of verification | | | |
| | K6_W08 | | Ability to apply appropriate corrosion monitoring techniques to obtain optimal measurement results | | | [SW1] Assessment of factual knowledge | | |
| | K6_U04 | | Ability to use NDT measurement methods to apply various defects | | | [SU1] Assessment of task fulfilment | | |
| Subject contents | Nondestructive testing: visual methods magnetic particle testing radiographic testing acoustic emission Corrosion monitoring: linear polarization method electric resistance method coupon method electrochemical noise | | | | | | | |
| Prerequisites and co-requisites | Knowledge of electrochemistry and measurements of resistance | | | | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | Percentage of the final grade | | | |
| | Practical exercise | | 60.0% | | 50.0% | | | |
| | Written exam | | | | | 50.0% | | |
| Recommended reading | Basic literature | | G. Wranglen – podstawy korozji i ochrony metali. WNT, Warszawa 1975 H.H. Uhlig – Ochrona przed korozją, WNT, Warszawa 1976 | | | | | |
| | Supplementary literature | | See: www.korozja.pl | | | | | |
| | eResources addresse | Adresy na platformie eNauczanie: | | | | | | |
| Example issues/ example questions/ tasks being completed | Theoretical and practical aspects of diagnosis of corrosion and corrosion monitoring | | | | | | | |
| Work placement | Not applicable | | | | | | | |

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