## Subject card

| Subject name and code | Mechanics and Strength of Materials II, PG_00043534 |  |  |  |  |  |  |
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| Field of study | Environmental Engineering |  |  |  |  |  |  |
| Date of commencement of studies | October 2020 |  | Academic year of realisation of subject |  |  | 2021/2022 |  |
| Education level | first-cycle studies |  | Subject group |  |  | Obligatory subject group in the field of study <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 | 2 |  | Language of instruction |  |  | Polish |  |
| Semester of study | 3 |  | ECTS credits |  |  | 4.0 |  |
| Learning profile | general academic profile |  | Assessment form |  |  | assessment |  |
| Conducting unit | Structural Mechanics Department -> Faculty of Civil and Environmental Engineering |  |  |  |  |  |  |
| Name and surname of lecturer (lecturers) | Subject supervisor |  | dr inż. Violetta Konopińska-Zmysłowska |  |  |  |  |
|  | Teachers |  | dr inż. Magdalena Oziębło mgr inż. Łukasz Żmuda-Trzebiatowski dr inż. Violetta Konopińska-Zmysłowska |  |  |  |  |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | Seminar | SUM |
|  | Number of study hours | 15.0 | 30.0 | 0.0 | 0.0 | 0.0 | 45 |
|  | E-learning hours included: 0.0 |  |  |  |  |  |  |
|  | Adresy na platformie eNauczanie: <br> Mechanika i Wytrzymałość Materiałów rok 2021 - Moodle ID: 12039 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=12039 |  |  |  |  |  |  |
| 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 |  | 4.0 |  | 52.0 | 101 |
| Subject objectives | Student is able to calculate internal forces for simple model of engineering structures and use them to developed stresses in investigated model. Student has knowledge of theoretical basis of dimensioning. |  |  |  |  |  |  |
| Learning outcomes | Course outcome |  | Subject outcome |  |  | Method of verification |  |
|  | [K6_W08] has elementary knowledge of construction: including building materials, their strength, construction mechanics and building physics, moisture migration in buildings, heat transfer through building partitions |  | Student is able to obtain stress function of beams cross section. Student has basic knowledge of dimensioning of simple structures. |  |  |  |  |
|  | [K6_W02] has knowledge of physics, including mechanics, thermodynamics, optics, electricity and magnetism, nuclear physics and solid state physics, including knowledge necessary to: 1) understand the basic physical phenomena related to material durability, fluid mechanics and hydraulics, building physics, geodetic measurements ; 2) understanding the principles of operation of basic electrical devices and systems; 3) solving project tasks of the sanitary industry; |  | Student has basic knowledge of simple engineering structures. Student knows basic types of loads of structures and is able to prepare static schemes of basic structures. |  |  |  |  |



