



Subject card

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|---|---|---|----------|-------------------------------------|--|------------|-----|
| Subject name and code | Fundamentals of Machine Design II, PG_00055397 | | | | | | |
| Field of study | Mechanical Engineering | | | | | | |
| Date of commencement of studies | October 2023 | Academic year of realisation of subject | | | 2025/2026 | | |
| Education level | first-cycle studies | Subject group | | | Obligatory subject group in the field of study 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 | | | Polish | | |
| Semester of study | 5 | ECTS credits | | | 2.0 | | |
| Learning profile | general academic profile | Assessment form | | | assessment | | |
| Conducting unit | Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | prof. dr hab. inż. Michał Wasilczuk | | | | | |
| | Teachers | | | | | | |
| Lesson types and methods of instruction | 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 | | 2.0 | | 18.0 | 50 |
| Subject objectives | Presenting the knowledge and acquiring the skills of calculation methods used in machine design as well as practical designing of a simple mechanical device | | | | | | |
| Learning outcomes | Course outcome | Subject outcome | | | Method of verification | | |
| | [K6_U07] is able to design a typical construction of a mechanical device, component or a testing station using appropriate methods and tools, adhering to the set usage criteria | student carries out the project | | | [SU1] Assessment of task fulfilment | | |
| | [K6_U03] is able to identify, formulate and develop the documentation of a simple design or technological task, including the description of the results of this task in Polish or in a foreign language and to present the results using computer software or other aiding tools | the completed project is in the form of documentation | | | [SU1] Assessment of task fulfilment | | |
| | [K6_U11] is able to analyse the operation of devices and compare the construction solutions applying usage, safety, environmental, economic and legal criteria | while designing, the student analyzes the operation of the device | | | [SU1] Assessment of task fulfilment | | |
| Subject contents | making technical documentation and a project of a mechanical device | | | | | | |
| Prerequisites and co-requisites | mechanics, strength of materials, engineering drawing and drafting, Machine Design I | | | | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | | | Percentage of the final grade | | |
| | Project | 100.0% | | | 100.0% | | |
| Recommended reading | Basic literature | Prezentacje do wykładów ze strony www.pg.gda.pl/~mwasilcz Wykład z Podstaw Konstrukcji Maszyn z Cwiczeniami Rachunkowymi - skrypty PG, wyd. PG | | | | | |
| | Supplementary literature | Podstawy Konstrukcji Maszyn (Fundamentals of Machine Design - series of handbooks) edited by PWN Podstawy Konstrukcji Maszyn (Fundamentals of Machine Design), WNT, editor M. Osiński | | | | | |

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| | eResources addresses | Adresy na platformie eNauczenie: |
| Example issues/ example questions/ tasks being completed | design problem with graphical elements | |
| Work placement | Not applicable | |