GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

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|---|---|---|---|
| Subject name and code | Research laboratory, PG_00059386 | | |
| Field of study | Mechanical Engineering | | |
| Date of commencement of studies | February 2024 | Academic year of realisation of subject | 2024/2025 |
| Education level | second-cycle studies | Subject group | Optional subject group |
| Mode of study | Part-time studies | Mode of delivery | at the university |
| Year of study | 1 | Language of instruction | Polish |
| Semester of study | 2 | ECTS credits | 1.0 |
| Learning profile | general academic profile | Assessment form | assessment |
| Conducting unit | Division of Fluid-Flow Machinery -> Institute of Energy -> Faculty of Mechanical Engineering and Ship Technology | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | prof. dr hab. inż. Krzysztof Kosowski | |
| | Teachers | prof. dr hab. inż. Krzysztof Kosowski | |

**Lesson types and methods of instruction**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 0.0 | 0.0 | 0.0 | 9.0 | 0.0 | 9 |

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 | 9 | 2.0 | 14.0 | 25 |

**Subject objectives**

The main aim is to prepare students to research work (theoretical, design and experimental investigations), to give them basic principles of experimental design (planning), research methods and analysis of results, formulating conclusions and presentation of results

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [K7_U03] is able to prepare construction, technological and operational documentation in compliance with appropriate standards, including technical drawings in CAD 2D and 3D systems | Student can prepare technical documentation | [SU1] Assessment of task fulfilment |
| [K7_U01] is able to acquire information from specialist literary sources and other sources regarding the construction and operation of machines and related disciplines in polish and in a foreign language, is able to conduct a self-learning process, is able to synthesize the information, form conclusions and justify opinions | Student can make use of available data sources | [SU4] Assessment of ability to use methods and tools |

**Subject contents**

Problems of experimental investigations (theoretical, design and experimental investigations), to give them basic principles of experimental design (planning), research methods and analysis of results, formulating conclusions and presentation of results

**Prerequisites and co-requisites**

lectures on turbomachinery

**Assessment methods and criteria**

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| report | 60.0% | 100.0% |

**Recommended reading**

| | |
|---|---|
| Basic literature | M. Korzyński, Metodyka eksperymentu, PWN WNT, wyd.2 , 2021 (in Polish) |
| Supplementary literature | Literature will be suggested by lecturer according to the particular tasks |
| eResources addresses | Adresy na platformie eNauczanie: |

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|---|---|
| Example issues/ example questions/ tasks being completed | |
| Work placement | Not applicable |

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