## COURSE SPECIFICATION

| | | |
|---|---|---|
| Course code | full-time programme: | **M#2-S2-ME-206** |
| | part-time programme: | |
| Course title in Polish | **Praca przejściowa** | |
| Course title in English | **Pre-Final Project** | |
| Valid from (academic year) | **2024/2025** | |

## GENERAL INFORMATION

| | |
|---|---|
| Programme of study | **MECHANICAL ENGINEERING** |
| Level of qualification | **second-cycle** |
| Type of education | **academic** |
| Mode of study | **full-time programme** |
| Specialism | **all** |
| Department responsible | **Department of Machine Design and Machining** |
| Course leader | **dr inż. Michał Skrzyniarz** |
| Approved by | **dr hab. Jakub Takosoglu, prof. PŚk, Dean of the Faculty of Mechatronics and Mechanical Engineering** |

## COURSE OVERVIEW

| | | |
|---|---|---|
| Course type | | **programme-specific** |
| Course status | | **compulsory** |
| Language of instruction | | **English** |
| Semester of delivery | full-time programme | **Semester II** |
| | part-time programme | **Semester II** |
| Pre-requisites | | |
| Examination required (YES/NO) | | **NO** |
| ECTS value | | **2** |

| **Mode of instruction** | | **lecture** | **class** | **laboratory** | **project** | **seminar** |
|---|---|---|---|---|---|---|
| **No. of hours per semester** | full-time programme | | | | **30** | |
| | part-time programme | | | | | |

## LEARNING OUTCOMES

| Category of outcome | Outcome code | Course learning outcomes | Corresponding programme outcome code |
|---|---|---|---|
| Skills | U01 | Be able to use knowledge to formulate and solve complex engineering problems related to the assigned project. Is able to evaluate, critically analyse and synthesise the results obtained and to express opinions and comments. | MiBM2_U01 |
| | U02 | Carry out in-depth literature reviews, database searches and use other sources of information on a chosen engineering topic. Integrate the information obtained, carry out in-depth critical analysis, synthesis and creative interpretation, draw conclusions and formulate and justify opinions. | MiBM2_U03 |
| | U03 | Can work individually and as part of a team, estimate the time needed to complete an assigned task and plan work to ensure deadlines are met. | MiBM2_U15 |
| | U04 | Has the ability to plan continuous self-development and to lead others in this process in order to solve and accomplish new and increasingly complex tasks. | MiBM2_U16 |
| Competence | K01 | Aware of the need for lifelong learning throughout their career. Independently updates and extends knowledge of modern mechanical and engineering processes and technologies, and takes a critical view of existing knowledge. | MiBM2_K01 |
| | K02 | Be prepared to carry out professional duties in the field of mechanics and mechanical engineering in a responsible manner. Adheres to professional ethics and takes measures to ensure that they are observed. | MiBM2_K05 |

## COURSE CONTENT

| Mode of instruction | Topics covered |
|---|---|
| project | The aim of the course is to apply the knowledge acquired during the study of basic, specialised and major subjects to solve problems related to manufacturing technology, machine and equipment construction and their operation. Students will be able to demonstrate their ability to use professional software that supports the work of an engineer. The project work aims to prepare students for independent work by synthesising all the knowledge acquired in the fields of technology, design and operation of machines and equipment. Students will be required to write a dissertation on a given topic, following the established guidelines for documenting the results of Master's level work. These assignments enable students to master methods for independently solving design, computational or research tasks and to understand the practical application of theoretical knowledge in engineering. |

## ASSESSMENT METHODS

| Outcome code | Methods of assessment | | | | | |
|---|---|---|---|---|---|---|
| | Oral examination | Written examination | Test | Project | Report | Other |
| U01 | | | | X | | |
| U02 | | | | X | | |
| U03 | | | | X | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| U04 | | | | X | | |
| K01 | | | | | | X |
| K02 | | | | | | X |

## ASSESSMENT TYPE AND CRITERIA

| Mode of instruction | Assessment type | Assessment criteria |
|---|---|---|
| project | non-examination assessment | Positive completion of the project. |

## OVERALL STUDENT WORKLOAD

| ECTS weighting | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | Activity type | Student workload | | | | | | | | | | Unit |
| | | full-time programme | | | | | part-time programme | | | | | |
| | | L | C | Lb | P | S | L | C | Lb | P | S | |
| 1. | Scheduled contact hours | | | | **30** | | | | | | | h |
| 2. | Other contact hours (office hours, examination) | | | | **2** | | | | | | | h |
| 3. | **Total number of contact hours** | **32** | | | | | | | | | | h |
| 4. | **Number of ECTS credits for contact hours** | **1,3** | | | | | | | | | | ECTS |
| 5. | **Number of independent study hours** | **18** | | | | | | | | | | h |
| 6. | **Number of ECTS credits for independent study hours** | **0,7** | | | | | | | | | | ECTS |
| 7. | **Number of practical hours** | **50** | | | | | | | | | | h |
| 8. | **Number of ECTS credits for practical hours** | **2,0** | | | | | | | | | | ECTS |
| 9. | **Total study time** | **50** | | | | | | | | | | h |
| 10. | **ECTS credits for the course** *1 ECTS credit = 25-30 hours of study time* | **2** | | | | | | | | | | ECTS |

## READING LIST


1. Bisewska A., Bisewski T., *Jak pisać prace naukowe: poradnik dla studentów*, Słońce i Księżyc, Rumia, 2010
2. Honczarenko J., Zygmunt M., *Poradnik dyplomanta*, Wydawnictwo Uczelniane Politechniki Szczecińskiej, Szczecin, 2000
3. Kozłowski R., *Praktyczny sposób pisania prac dyplomowych z wykorzystaniem programu komputerowego i Internetu*, Wolters Kluwer Polska, Warszawa, 2009
4. Opoka E., *Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych*, Wydawnictwo Politechniki Śląskiej, Gliwice, 2003
5. Zenderowski R.: Technika pisania prac magisterskich i licencjackich. Wyd. CeDeWu, Warszawa, 2018
6. Wójcik K.: Piszę akademicką pracę promocyjną – licencjacką, magisterską, doktorską (9 wydanie, uzupełnione i poprawione), Wyd. Wolters Kluwer, Warszawa, 2015
7. Szelka J.: Vademecum wykonywania opracowań naukowych. Wyd. Uniwersytetu Zielonogórskiego, Zielona Góra, 2017
8. Pułło A.: Prace magisterskie i licencjackie. Wyd. PWN, Warszawa, 2000

9. Detyna B., Matuszek J., Szołtysek J. (2018), Praca dyplomowa. Inżynierska, magisterska, wyd.PWSZ AS, Wałbrzych
10. Węglińska Maria „ Jak pisać pracę magisterską? Poradnik dla studentów", Oficyna Wydawnicza Impuls, 2016
11. David Evans, How To Write A Better Thesis, Melbourne University Press, 2011
12. Murray John, How to Write a Thesis, Open Univ Pr, 2017
13. Paul Gruba, Justin Zobel, How To Write Your First Thesis, Springer International Publishing AG, 2017