COURSE DESCRIPTION CARD - SYLLABUS

Course name
Preparation of a diploma thesis [S1MiBM2>PPD]

Course

Field of study
Mechanical Engineering

Year/Semester
4/7

Area of study (specialization)
–

Profile of study
general academic

Level of study
first-cycle

Course offered in
Polish

Form of study
full-time

Requirements
compulsory

Number of hours

Lecture
0

Laboratory classes
0

Other
0

Tutorials
0

Projects/seminars
60

Number of credit points

13,00

Coordinators

dr inż. Jakub Grabski
jakub.grabski@put.poznan.pl

Lecturers

Prerequisites

The student has basic knowledge and skills of the programs and subjects provided for students of Mechanical Engineering at the first-cycles studies.

Course objective

Expanding knowledge and skills in the implementation of a selected engineering issue and the ability to present the results of these works.

Course-related learning outcomes

Knowledge:
Student knows the rules related to the editing of a diploma thesis (structure, editorial requirements, sources of acquiring knowledge, bibliographic principles used in preparing a literature review).
The student is able to determine the topic and purpose of the diploma thesis and formulate the scope of the topic (issues subsequently developed in the diploma thesis).
Has knowledge of economic, legal, ethical and other non-technical conditions of professional activity.
Knows and understands the basic concepts and principles of industrial property protection and copyright.

Skills:
The student is able to analyse the literature on the subject. The student is able to present the scope of the topic, the main assumptions and purpose of the work and report its important fragments. The student is able to formulate conclusions from the work performed. The student is able to prepare a well-documented technical study in Polish and English. The student is able to present the acquired knowledge (multimedia presentation, report, speech, discussion). Can use a foreign language at level B2 of the Common European Framework of Reference for Languages. Is able to independently plan and implement his own lifelong learning. Is able to formulate and solve complex and unusual problems by obtaining information from literature, databases and other properly selected sources. Is able to integrate the obtained information, interpret it and critically evaluate it.

Social competences:
The student understands the need for lifelong learning and is able to inspire the learning process of other people. The student is aware of the social role of a technical university graduate, is able to express his or her assessment and justify it with substantive arguments. The student is able to act in an entrepreneurial manner. The student is aware of the need to act in accordance with the principles of student ethics. Understands the need for lifelong learning; is aware of the need to critically analyze and evaluate its proposals and actions. Is able to determine the importance of knowledge in solving cognitive and practical problems and to seek the opinion of experts in case of difficulties in solving the problem independently. Is aware of the social role of a technical university graduate and understands the need to formulate and provide the public with information and opinions regarding technological achievements.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Completing the course based on:
- evaluation of the presented diploma thesis,
- regularity of its execution (timely manner),
- ability to independently solve technical problems.

Programme content

Consistent with the given topic of the diploma thesis.

Course topics

none

Teaching methods

Discussion between the supervisor and the graduate on currently emerging problems, ongoing explanations or providing sources in the literature.

Bibliography

Basic:
1. Wojciechowska R., Przewodnik metodyczny pisania pracy dyplomowej Wyd. DIFIN Warszawa 2010
2. Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych Wyd. Politechniki Śląskiej Gliwice 2001
3. Diakun J., Szablon pracy dyplomowej, http://pm.put.poznan.pl/strefa-studenta/instrukcje-do-zajec-laboratoryjnych/
4. Scientific and technical literature necessary to prepare a diploma thesis.

Additional:
1. Dobre obyczaje w nauce. Zbiór zasad i wytycznych (wyd. 3), Wyd. PAN Warszawa, 2001.

Breakdown of average student's workload

	Hours	ECTS
Total workload	325	13,00
Classes requiring direct contact with the teacher	60	2,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	265	11,00