COURSE DESCRIPTION CARD - SYLLABUS

Course name
Diploma seminar [S2MiBM2-IWP>SD]

Course

Field of study
Mechanical Engineering

Year/Semester
2/3

Area of study (specialization)
Virtual Engineering Design

Profile of study
general academic

Level of study
second-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
30

Number of credit points

2,00

Coordinators

dr inż. Piotr Posadzy
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Lecturers

Prerequisites

The student has basic knowledge in the field of programmes and subjects provided for students of Mechanical Engineering at the level of second-cycle studies. In particular, he is aware of the role and importance of the importance of computer support in the design process typical of the field of Mechanical Engineering. The student has the ability to think logically, use various sources of information (PUT Library e-sources, Internet) and process acquired data and information, and use programs for editing text and graphic documents. The student understands the need to learn, acquire new knowledge, skillfully argue and communicate one's own observations and conclusions, as well as correct self-presentation. In particular, he is aware of the role and importance of computer support in the design process typical of the field of Mechanical Engineering.

Course objective

Acquiring the practical ability to apply the knowledge acquired during studies to develop a master's thesis and acquiring the ability to conduct a scientific discussion in the thematic area related to the diploma thesis. Acquiring the ability to apply the acquired knowledge to conduct research. Defining the research tasks to be performed (characterization of the substantive area with the supervisor during consultations).

Course-related learning outcomes

Knowledge:
The student has knowledge of the principles of writing studies, editing texts, and preparing presentations. The student has knowledge in the field of project management (diploma thesis). The student knows the methods and techniques used to solve research tasks. The student has knowledge about decisions made when choosing research methods.

Skills:
The student is able to plan and carry out activities related to the completion of the diploma thesis (including experiments, computer simulations, etc.); can correctly interpret the obtained results and draw conclusions. The student is able to select and apply appropriate research methods for the specific tasks. The student is able to give a presentation and participate in a discussion (debate).

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 and researcher ethics.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Credit based on the presentation of issues related to education in the field of Mechanics and Machine Construction and the presentation of the progress of the master's thesis in the scope of: goals, methods of solving the problem and schedule. Participation in the discussion.

Programme content

1. Discussion of exemplary master's theses (goals, scope, volume, literature). Differences between a master's thesis and an engineering thesis.
2. Review of knowledge acquired during studies (presentations prepared by students). Selection of the supervisor, determination of the topic and scope of the master's thesis (after consultation with the supervisor).
3. Characteristics of research methods that can be used in master's theses.
4. Characterization of the substantive area, formulation of the research goal and its scope.
5. Selection of literature to the scope of work.
6. Presentations of fragments of diploma theses by students (theoretical and research/design parts).
7. Conducting a scientific discussion in the thematic area related to the diploma thesis.

Course topics

Applicable deadlines: normal and extended
Selection of the promoter
Procedures before defending your thesis
Preparing a presentation for the defense of a diploma thesis
Diploma exam
Presentation of work progress

Teaching methods

Seminar, workshops on how to write a diploma thesis, discussions on the presented issues.

Bibliography

Basic:
Diakun J., Szablon pracy dyplomowej, http://pm.put.poznan.pl/strefa-studenta/instrukcje-do-zajec-laboratoryjnych/
Wisłocki K., Metodologia i redakcja prac naukowych, Wydawnictwo Politechniki Poznańskiej, Poznań 2013
Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych, Wyd. Politechniki Śląskiej, Gliwice 2001

Additional:
Individually selected

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	20	1,00