



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

Course

Field of study

Mechanical engineering

Area of study (specialization)

Machine technology

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

3/6

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

15

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

prof. dr hab. inż. Stanisław Legutko, prof. zw. PP

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Wydział Inżynierii Mechanicznej

ul. Piotrowo 3 60-965 Poznań

Responsible for the course/lecturer:

Prerequisites



Knowledge: basic in the scope of programs and subjects provided for Mechanical Engineering students at the first degree

Skills: logical thinking, using various sources of information (library, Internet) and processing obtained messages, using programs for editing text and graphic documents

Social competences: understanding the need for learning, acquiring new knowledge, organizing information obtained, verbalizing one's own conclusions (self-presentation)

Course objective

Generating the subjects of diploma theses, specifying the objectives and scope of work

Course-related learning outcomes

Knowledge

Student knows the rules related to the editing of the diploma thesis (structure, editorial requirements, sources of knowledge, bibliographic principles used in developing a review of the literature)

Is able to determine the subject and purpose of the thesis

Can formulate the scope of the topic (issues then developed in the thesis)

He knows the substantive scope of the diploma exam

Skills

Student is able to analyze the literature on the subject

Is able to present the scope of the topic, main assumptions and purpose of the work and present its important fragments

Can verbalize acquired knowledge and present it in various ways (multimedia presentation, paper, speech, discussion)

Can formulate conclusions from the work carried out

Social competences

Student can work in a group

He will act in accordance with the principles of ethics

He can express his opinion and justify it

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formative rating: assessment for presenting given seminar topics

Summative assessment: fulfillment of all the conditions for passing the subject presented at the beginning of the class

Programme content



- characteristics of engineering diploma theses (construction, technological, production organization, research, review, theoretical);
- the structure of the diploma thesis;
- editorial requirements;
- characterizing the substantive area, formulating the purpose of the work and its scope;
- selection and presentation of the methodology of work: inference at the stage of topic analysis, selection of methods and means to be performed by experience, modeling, statistical analysis of results, variability measures, statistical verification of hypotheses, final conclusions with innovative, practical or theoretical accents.
- formal rules for preparing literature analysis and student's own research;
- issues common to groups of students on examples, preparation of a paper in groups, discussion;
- choosing a work promoter, determining the topic of work in close contact with the promoter;
- presentation of the outline of the selected topic of the work and its important fragments.

Teaching methods

Multimedia presentations with commentary, panel discussion

Bibliography

Basic

Individually selected for a topic

Diploma recommendations developed by the lecturer, a sheet of the most frequently recurring mistakes while editing the thesis developed by the lecturer

R. Wojciechowska: Przewodnik metodyczny pisania pracy dyplomowej, Wyd. DIFIN, Warszawa 2010

E. Opoka: Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych, Wyd. Politechniki Śląskiej, Gliwice 2001

Additional

Specialized scientific conferences materials

Selected literature items compatible with the subjects of theses



Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,0
Classes requiring direct contact with the teacher	15	
Student's own work (literature studies, preparation of exam issues, preparation of thesis presentation) ¹	60	

¹ delete or add other activities as appropriate