



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar [S1ZiIP2>SD]

Course

Field of study

Management and Production 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

elective

Number of hours

Lecture

0

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

30

Number of credit points

2,00

Coordinators

dr inż. Jakub Grabski
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Lecturers

Prerequisites

The student has basic knowledge of the programs and subjects provided for students of the ZiIP major at the first level of studies. Has the ability to think logically, use various sources of information (library, Internet) and process acquired information, use programs for editing text and graphic documents. Understands the need to learn, acquire new knowledge, organize acquired information, verbalize one's own conclusions (self-presentation)

Course objective

Acquiring practical skills in applying knowledge acquired during studies to develop an engineering diploma thesis and acquiring skills in conducting scientific discussions in the thematic area related to the diploma thesis. Acquiring skills in applying acquired knowledge to conduct research. Defining research tasks to be performed (characterizing the substantive area together with the supervisor during consultations).

Course-related learning outcomes

Knowledge:

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

the diploma thesis has been defined and the scope of the topic has been formulated (issues developed later in the diploma thesis). The student knows the substantive scope of the diploma exam.

Skills:

Is able to analyze the literature on the subject; present the scope of the topic, main assumptions and the purpose of the work and report its important fragments. Has the ability to verbalize the acquired knowledge and present it in various ways (multimedia presentation, paper, speech, discussion). Is able to formulate conclusions from the work performed.

Social competences:

The student understands the need for lifelong learning; is able to inspire and organize the learning process of others. Is able to define priorities for the implementation of a specific task. Is able to cooperate and work in a group. Takes responsibility for publications prepared independently (especially in the scope of using the publication achievements of others).

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Credit is given on the basis of the presentation of issues related to education in the field of Management and Production Engineering and the presentation of an engineering diploma thesis in the scope of: objectives, methods of solving the posed problem and schedule.

Programme content

Characteristics of engineering diploma theses. Structure of the diploma thesis. Editorial requirements. Preparation and presentation of the paper. Determination of the topic of the diploma thesis in close contact with the supervisor.

Course topics

The student completes a diploma thesis focused on one of the following areas:

- design of production processes,
- organization of production systems,
- production planning and control,
- informatization of production processes.

The pre-diploma seminar covers the following topics:

1. Characteristics of engineering diploma theses (construction, technological, production organization, research, review, theoretical);
2. Structure of the diploma thesis;
3. Editorial requirements;
4. Characterization of the substantive area, formulation of the purpose of the work and its scope;
5. Selection and presentation of the methodology of the work: reasoning at the stage of topic analysis, selection of methods and means to be performed by experience, modeling, statistical analysis of results, measures of variability, statistical verification of hypotheses, final conclusions with innovative, practical or theoretical accents.
6. Formal principles of developing a literature review and the student's own research;
7. Issues common to groups of students on examples - preparation of a paper in groups, discussion;
8. Selection of thesis supervisor, determination of the thesis topic in close contact with the supervisor; - presentation of an outline of the selected thesis topic and its important fragments.

Teaching methods

Multimedia presentations, discussion.

Bibliography

Basic:

Szablon pracy dyplomowej, <http://pm.put.poznan.pl/strefa-studenta/instrukcje-do-zajec-laboratoryjnych/>

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:

Selected literature related to the topics of diploma theses

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