



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Temporary work - food machines and refrigeration

Course

Field of study

Construction and Exploitation of Means of Transport

Area of study (specialization)

Food Industry Machines and Refrigeration

Level of study

First-cycle studies

Form of study

part-time

Year/Semester

3/6

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

Number of hours

Lecture

0

Laboratory classes

0

Other (e.g. online)

Tutorials

0

Projects/seminars

0

Number of credit points

5

Lecturers

Responsible for the course/lecturer:

prof. dr hab. inż. Krzysztof Bieńczak

email: krzysztof.bieniczak@put.poznan.pl

tel. 616475888

Faculty of Civil and Transport Engineering

ul. Piotrowo 3, 60-965 Poznań

Responsible for the course/lecturer:

Prerequisites

KNOWLEDGE:

Student has a basic knowledge of the place and role of transport in the economy and social life, in the science system and in relations with other areas of knowledge. Student knows the main tasks of systems in the area of economic functioning and development enterprises and the state.

SKILLS:

Student is able to use the selected computer text editor and correctly uses the language of diploma work. Student knows how to use the tools supporting engineering works in the areas covered by the study program.



SOCIAL COMPETENCES:

Student is aware of responsibility for his/her own work. Student is aware of the proper documentation and presentation of the research and design results.

Course objective

Preparation of a written work on a given topic according to generally applicable rules documenting the research or design results.

Course-related learning outcomes

Knowledge

1. Has a basic, structured knowledge of non-metallic and composite materials used in the construction and operation of machines, mainly ceramics, plastics synthetic, non-metallic natural materials (wood, glass, stone) and fuels, lubricants, technical gases, refrigerants, etc.
2. Has extended basic knowledge necessary to understand specialist subjects and specialist knowledge of construction, manufacturing and operation methods of a selected working, transport, thermal and flow machines (covered by the profile specialization of the Faculty of Civil and Transport Engineering).

Skills

1. Is able to obtain information from literature, the Internet, databases and other sources. Is able to integrate and interpret the obtained information and draw conclusions from it, as well as create and justify opinions.
2. Can use computer programmes for editing technical texts including formulas and tables, technical and economic calculations using a spreadsheet and keeping simple relational database.
3. Is able to prepare and present a short verbal and multimedia presentation on the engineering task results.
4. Is able to self-educate with the use of modern didactic tools such as remote lectures, internet sites and databases, teaching programs, e-books.

Social competences

1. Is ready to critically assess the knowledge and content received

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Assessment of the written temporary work in terms of content, methodology and editorial content

Programme content



Determining the detailed topic and purpose of the work as well as its substantive scope, indicating the sources, literature searches; discussion of the work implementation schedule. Individual discussion with the student concerning the work plan and collected materials; approval of the plan by lecturer. The most important principles of writing works concerning, among others work structure, literature, descriptions of drawings and tables, editorial guidelines, etc. Individual discussion of the corrected and assessed work.

Teaching methods

Bibliography

Basic

1. Pułło A., Prace magisterskie i licencjackie. PWN, Warszawa 2000.
2. Wojcik K.:Piszę akademicką pracę promocyjną - licencjacką, magisterską, doktorską, Wolters Kluwer, 2015

Additional

Literature on the work content

Breakdown of average student's workload

	Hours	ECTS
Total workload	125	5,0
Classes requiring direct contact with the teacher	25	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	100	4,0

¹ delete or add other activities as appropriate