



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar [S1TCh2>SD]

Course

Field of study

Chemical Technology

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 (e.g. online)

0

Tutorials

0

Projects/seminars

15

Number of credit points

1,00

Coordinators

dr hab. inż. Katarzyna Materna prof. PP
katarzyna.materna@put.poznan.pl

Lecturers

Prerequisites

Structured knowledge covering the curriculum of the first degree studies in the field of Chemical Technology. The ability to solve elementary problems based on knowledge and the ability to obtain information from specified sources in Polish and a foreign language. Understanding the need for further education, understanding the need to expand their competences, readiness to cooperate within a team.

Course objective

The aim is to familiarize students with the requirements and standards of preparing an engineering diploma thesis. Monitoring progress in the implementation of the diploma thesis. Discussing problems arising during the implementation of this task. The ability to present the results and confront them with the current state of knowledge.

Course-related learning outcomes

Knowledge:

K_W03 - has the necessary knowledge in chemistry and chemical technology in the field enabling understanding of chemical phenomena and processes

K_W08 - has a systematically and theoretically founded general knowledge in the field of general and

inorganic chemistry, organic, physical and analytical chemistry, chemical technology and engineering
K_W09 - has the necessary knowledge about both natural and synthetic raw materials, products and processes used in chemical technology, as well as about the directions of development of the chemical industry in the country and in the world

K_W11 - has the necessary knowledge in the field of techniques and methods for characterizing and identifying chemical substances

K_W13 - has knowledge in the field of technology and chemical engineering, machine science and apparatus of the chemical industry

Skills:

K_U01 - can obtain the necessary information from literature, databases and other sources related to chemical sciences, correctly interprets them, draws conclusions, formulates and justifies opinions

K_U02 - can work both individually and as a team in a professional and other environment

K_U04 - can prepare and present in Polish an oral presentation concerning chemical technology

K_U05 - has the ability to self-study

K_U14 - is able to assess the usefulness of routine methods and techniques appropriate to solve practical engineering tasks in chemical technology, can also choose and apply the appropriate method and technique

K_U16 - based on general knowledge, explains the basic phenomena associated with significant processes in chemical technology

K_U17 - uses correct chemical terminology and nomenclature of chemical compounds, also in English

K_U18 - distinguishes between types of chemical reactions and has the ability to select them for chemical processes

K_U22 - determines the physical and chemical, mechanical and thermal properties of chemical compounds and materials

K_U25 - assesses the risks associated with the use of chemical products and processes

K_U33 - solves simple engineering tasks related to the implementation of unit processes and operations in chemical technology

Social competences:

K_K01 - understands the need for further training and raising their professional, personal and social competences

K_K02 - is aware of the importance and understanding of non-technical aspects and effects of engineering activities, including their impact on the environment and the associated responsibility for decisions made

K_K03 - is able to cooperate and work in a group, inspire and integrate engineering environments

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Presentations (two) regarding the basics of the thesis being carried out and the results obtained during its realization. Criteria: form of presentation, self-presentation skills, active participation in discussions and answers to asked questions.

Programme content

1. Introduction - thesis layout - the most common formal and substantive errors.
2. Anti-plagiarism - an overview of the system's functioning and related guidelines.
3. Possibilities of searching for information in the scope of the diploma thesis, the method of using the source materials and their presentation in the thesis.
4. Assessment of the method of transferring acquired knowledge, preparing presentation of results.

Course topics

none

Teaching methods

Seminar - multimedia presentations or e-learning, group discussion

Bibliography

Basic:
Indicated by the engineering thesis supervisor.

Additional:
Indicated by the engineering thesis supervisor.

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,00
Classes requiring direct contact with the teacher	15	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	10	0,50