



COURSE DESCRIPTION CARD - SYLLABUS

Course name

History of waterworks in Poland

Course

Field of study

Environmental Engineering Second-cycle Studies

Area of study (specialization)

Heating, Air Conditioning and Air Protection

Level of study

Second-cycle studies

Form of study

part-time

Year/Semester

2/4

Profile of study

general academic

Course offered in

Polish

Requirements

elective

Number of hours

Lecture

12

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

dr hab.inż. Zbysław Dymaczewski, prof.PP

email: zbyslaw.dymaczewski@put.poznan.pl

tel.61 6653662

Faculty of Environmental Engineering and

Energy

ul. Berdychowo 4, 61-118 Poznań

Responsible for the course/lecturer:

Prerequisites

General historical knowledge obtained in previous education levels and basic knowledge of water supply, sewerage, water treatment and wastewater treatment obtained at the first-cycle studies

Course objective

To familiarize students with the knowledge on how water supply and sewage disposal as well as wastewater treatment has changed over the centuries in Poland, and how modern sanitary engineering has evolved.



Course-related learning outcomes

Knowledge

Getting to know and understanding the history of water supply and sewerage development in Poland.

Skills

The student can discuss topics related to the formation and development of water supply and sewerage systems in Poland

Social competences

Awareness of continuous improvement and deepening of one's competences

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Written test with open and closed questions

Programme content

Introduction - how water supply and sewage disposal developed in ancient times.

Water supply and sewage disposal in the Middle Ages in Europe and in Poland.

The beginnings of modern water supply and sewage systems - Poland against the background of Europe and the world.

Development of modern water treatment and wastewater treatment systems in the world and in Poland.

Teaching methods

Lecture, multimedia presentation

Bibliography

Basic

Wodociągi i kanalizacja w Polsce - tradycja i współczesność. red. nauk. M.M.Szozański, wyd. Polska Fundacja Ochrony Zasobów Wody, Poznań-Bydgoszcz, 2002.

Additional

Jenkins D., Wanner J., Activated sludge – 100 years and counting, IWA Publishing, Londyn 2014.

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	12	0,5
Student's own work (literature studies, preparation for test) ¹	38	1,5

¹ delete or add other activities as appropriate