

Course title: SELECTED ISSUES FROM INTERNAL SANITARY INSTALLATIONS

ECTS credit allocation (and other scores): 1.5

Semester: spring

Level of study: ISCED-7 - second-cycle programmes (EQF-7)

Branch of science: Engineering and technology

Language: English

Number of hours per semester: 30

Course coordinator/ Department and e-mail: prof. dr hab. inż. Wojciech Janczukowicz

Type of classes: classes

Substantive content

CLASSES: Determining the demand for water, hydraulic and pressure calculations of the water supply network, dimensioning of the water supply connection. Designing a water supply and sewage system for a residential buildings area, determining the amount of water and domestic wastewater, design of water and wastewater installations, a house sewer and household sewage treatment plant. Calculation of the amount of gas depending on the type of gas. Design calculations for gas connection to the building and internal gas installation. Designing rainwater drainage pipes.

Learning purpose: Acquainting with the principles of designing water, sewage and gas installations

On completion of the study programme the graduate will gain:

Knowledge: Student knows and understands the principles of designing water, sewage and gas installations.

Skills: Student is able to use the known principles of design in order to design a water supply, sewage and gas installation

Social Competencies: He is ready for continuous training and improvement of professional competences, including those of importance in environmental engineering

Basic literature:

1. Bąkowski K., Sieci i instalacje gazowe, Wyd. PWN Warszawa, R. 2008
2. Tecz Z., Bąk P., Technika materiałowa, instalacje ciepłej i zimnej wody, instalacje gazowe, urządzenia sanitarne, Wyd. REA, Warszawa, R. 1998
3. Chudzicki J., Sosnowski S., Instalacje kanalizacyjne- projektowanie, wykonanie, eksploatacja, Wyd. Seidel-Przywecki W-wa, R. 2009
4. Sosnowski S., Tabernacki J., Chudzicki J., Instalacje wodociągowe, kanalizacyjne, Wyd. Instalator Polski W-wa, R. 2000
5. McGhee T.J., Water supply and sewerage, McGraw-Hill International Editions, International Edition, 1999
6. Nicoll E.H., Small water pollution control works, design and practice, Ellis Horwood, 1992
7. Bąkowski K., Chudzicki J., Instalacje sanitarne. Nowy poradnik majstra budowlanego, Wyd. Arkady, R. 2003

Supplementary literature:

1. Praca zbiorowa, Instalacje wodociągowe, ogrzewcze i gazowe z miedzi, Wyd. Polskie Centrum Promocji Miedzi, R. 2000
2. Cieślowski S., Krygier K., Technologia instalacje sanitarne, Wyd. WSiP, Warszawa, R. 1998



The allocated number of ECTS points consists of:

Contact hours with an academic teacher:

- participation in: project classes - 30.0 h
- consultation - 2.0
- total: 32.0 h.

Student's independent work:

preparation for colloquium tests, preparing homework - 10.00 h