

Title Wastewater Treatment Systems	Code 1010102221010130575
Field Environmental Engineering Second-cycle Studies	Year / Semester 1 / 2
Specialty Water Supply, Water and Soil Protection	Course core
Hours Lectures: 2 Classes: - Laboratory: 2 Projects / seminars: 2	Number of credits 6
	Language polish

Lecturer:

Tymoteusz Jaroszyński, Ph.D., Eng.
Institute of Environmental Engineering
60-965 Poznań, street Piotrowo 3A
tel: +48 (61) 665-2438, fax.: +48 (61) 665-2439
e-mail: tymoteusz.jaroszynski@put.poznan.pl

Faculty:

Faculty of Civil and Environmental Engineering
ul. Piotrowo 5
60-965 Poznań
tel. (061) 665-2413, fax. (061) 665-2444
e-mail: office_dceef@put.poznan.pl

Status of the course in the study program:

Wastewater Treatment Systems

Assumptions and objectives of the course:

Knowledge of the quantify and quality characteristic of wastewater and sludge. Basic processes for wastewater and sludge treatment and principled of their design

Contents of the course (course description):

Definition of wastewater treatment system. Factors affecting on choice of technology and equipment of wastewater treatment. Statistical analysis of flowrates, constituent concentrations and mass loadings. Individual homeowner and small community wastewater treatment systems. Biological processes for BOD removal and nitrification, processes for nitrogen removal and processes for phosphorus removal. Sludge liquors treatment systems. Processes for treatment and disposal of wastewater sludge. Removal of air pollutants comes from wastewater treatment plants.

Introductory courses and the required pre-knowledge:

Environmental Chemistry, Environmental Biology and Ecology, Wastewater Technology.

Courses form and teaching methods:

Multimedial presentation

Form and terms of complete the course - requirements and assessment methods:

Written examination, written tests, projects.

Basic Bibliography:

Additional Bibliography: