Title Heat and Gas Engineering	Code 1010101251010130351
Field Environmental Engineering First-cycle Studies	Year / Semester 3 / 5
Specialty -	Course Core
Hours Lectures: 2 Classes: - Laboratory: - Projects / seminars: 1	Number of credits 4
<u> </u>	Language polish

Lecturer:

Zbigniew Bagieński, Ph.D., Eng. e-mail: zbigniew.bagienski@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 dceeaf@put.poznan.pl

Status of the course in the study program:

Core course.

Assumptions and objectives of the course:

Knowledge of theoretical and practical problems with the projection and the exploitation local (communal and industrial) heat supply systems.

Contents of the course (course description):

Characteristic of energy sources. Heat supply systems of cities; heat balances; heat sources. Heat -generating plant: technology, heat and mass balances, protections, water deacidification, regulation. Cogeneration. Heat distribution network: configuration, pressure lines, structure, elongation compensation, heat insulation. The projection of the local heat systems.

Introductory courses and the required pre-knowledge:

Physics, Fluid Mechanics I, Heat Engineering.

Courses form and teaching methods:

Lectures, Project, The technical excursion.

Form and terms of complete the course - requirements and assessment methods: The credit of the project.

Basic Bibliography:

Additional Bibliography: