

MODULE INFORMATION SHEET

Name of Module Unit	CAD of Heating, Cooling and Water Supply Systems
Name in Polish language	Komputerowo wspomagane projektowanie instalacji ogrzewczych, chłodzących i wodociągowych
Module type	elective
Form of studying	full-time day courses
Level of study	undergraduate course (B.Sc. level)
Type of study (for extra-mural courses)	-
Programme	Environmental Engineering
Speciality	Environmental Engineering
Responsible department	Department of Air Conditionnig and Heating
Responsible person	Dr inż. Michał Strzeszewski

Semester	Lectures(E)	Tutorials	Laboratory	Computer Exercises	Projects	ECTS
6	15			30		3

Objectives (summary)

The objective of the course is to familiarize students with computer-aided design of heating, cooling and domestic water supply systems.

Prerequisites

Physics, Thermodynamics, Heat Transfer, Fluid Mechanics, Civil Engineering and Constructions.

Rules of integrated grade setting

The integrated grade is based on theoretical test, as well as on the evaluation of practical tasks.

Recommended readings

Software manuals

Contents of lectures (syllabus)

	Topics	Time (hrs.)	Scope (S / Ex)
1	Calculation methods of heat transfer coefficients of building components	2	
2	Heat load calculation	4	
3	Heating systems design	3	
4	Cooling systems design	2	
5	Domestic water systems design	2	
5	Theoretical test	2	
Total		15	hours

S – topics listed in the legal study programme standards from 12.07.2007

Ex – extended topics

Lecturers

dr inż. Michał Strzeszewski

Assessment method

Theoretical test.

Contents of guided projects

	Topics	Time (hrs.)	Scope (S / Ex)
1	Calculation methods of heat transfer coefficients of building components	4	
2	Heat load calculation	12	
3	Heating systems design	6	
4	Cooling systems design	4	
5	Domestic water systems design	4	
Total		30	hours

S – topics listed in the legal study programme standards from 12.07.2007

Ex – extended topics

Persons responsible for guided projects

Dr inż. Michał Strzeszewski

Assessment method for guided projects

Evaluation of practical tasks.