Hochschule Konstanz
University of Applied Sciences

Course number: BIB 51432
Building Services Engineering A (heating systems)
Study Level: Bachelor / Undergraduate

Language of Instruction: English
ECTS Credits: 3

Content:

1. Thermal comfort, humidified air and heat transfer fundamentals
2. Building loads
3. Heat transfer and distribution systems
4. Heat generation systems: boilers and heat pumps
5. Water and domestic hot water systems

Learning objectives:

Students are able
...to calculate heating and domestic hot water loads for residential and commercial buildings
… to apply mass and energy conservation laws for a first sizing of energy system components like boilers, tanks, water pumps, pipes, radiators
… to choose operation mode and to specify a combined-heat-and-power-unit for a given application
… to specify and verify the application of technical standards on thermal comfort, hygiene and efficiency
… to improve their English proficiency

Assessment of this course is based on an exam.