Session: March 2024  
Institution: Budapest University of Technology and Economics  
Course location: Budapest University of Technology and Economics  
Course takes place: on-site  
Will switch to 'online' if necessary: Yes  
Course title: Efficient Energy Supply of Buildings and District Heating  
Course code: BME12  

Minimum year of study: 1  

Language of tutition: English  

Number of places 25  
Minimum: 10  
Maximum: 25  
Reserved for local students: 0  
Dummies: 25  

Prerequisites: No prerequisites needed.  

Objectives: The objective of the course is to introduce students into energy efficient building design, focusing on innovative heat production using renewable energy sources and waste heat utilisation. Energy management in town-scale energy communities will be explained on the example of modern district heating. Building service engineering systems, fit for nearly zero energy buildings will be explained as well as intelligent building automation systems in order to create smart buildings.  

Programme to be followed:  
Solar thermal systems  
Solar air heating  
Heat pump technology  
District heating  
Thermal Energy Communities  
Condensing boilers
Mechanical ventilation
Heat recovery
Air Conditioning.

Course exam: Oral presentation of teamwork

Professor responsible: Dr. Balázs Bokor

Participating professors: Dr. Balázs Bokor, Dr Balázs Szücs

Email: bokor@epgep.bme.hu

Telephone: +3614632535
FAX:
Course address: 1111 Budapest, Műegyetem rkp. 3. Building K.
ECTS credits: 2
Categories: energy, building energy, renewable energy, energy efficiency, district heating