

Sustainable heat in built environment

The complexities of socio-technical sustainable thermal energy system design in built environment: the improvement of the energy efficiency and the achievement of the sustainability in buildings it's necessary to limit energy use, improve buildings' energy performance, and reduce energy consumption; the green building rating systems, regulations and policies, technology utilisation, economic assessment and burdens, social factors should be taken into consideration as well.

Period:	Period 3
Course coordinator:	Dr. Javanshir Fouladvand - Utrecht University - email: j.fouladvand@uu.nl
Lecturer:	Dr. Javanshir Fouladvand - email: j.fouladvand@uu.nl – Dr. Jesus Rosales Carreon – email: j.rosalescarreon@uu.nl
Educational management portal:	moodle.unitus.it
Objectives:	Complexities of socio-technical sustainable thermal energy system design in built environment.
Programme:	Insulation, heat pumps, solar energy, wood-pellet, district heating and heat storage, needed regulations, policies and techno-economic assessments.
Pre-requisites:	i) Thermodynamics fundamentals. ii) Energy conversion systems fundamentals; iii) Renewable energy fundamentals.
Study material:	<ul style="list-style-type: none"> ● Lecture slides; ● Reading material; ● Virtual Reality material; ● Additional literature handed out during the course / made available via Blackboard/Moodle