

# Training school

## Time table

- Morning session
  - 9.00-13.00 (two sessions [1, 2] 1.45 min each)
  - Coffee break 10.45-11.15
- Lunch break (13.00-14.00)
- Afternoon session
  - 14.00-17.00 (two sessions [3, 4] 1.15 min each)
  - Coffee break 15.15-15.45

## Training School-syllabus

- **Day 1:**
- Session 1,1:
  - Introduction to TU1205-BISTS (SK) - 10 min + 15 min intro (Dorota)
  - Basic solar geometry (Soteris Kalogirou) – 45 min
  - Thermal analysis of solar collectors (Soteris Kalogirou) – 65 min
- Session 1,2:
  - Environmental pollution (George Florides) – 75 min
- Session 1,3:
  - BISTS case studies (Mervyn Smyth) - 75 min
- Session 1,4:
  - Optical and thermal modelling of BISTS (Dorota) – 75 min

- **Day 2:**
- Session 2,1
  - BISTS testing under a solar simulator (Mervyn Smyth) – 60 min
  - Space Heating and Cooling systems (George Florides)– 45 min
- Session 2,2
  - Architectural aspects of BISTS (Aleksandra Krstic) – 60 min
  - Combi-systems (DHW+heating+storage) (Dorota Chwieduk) – 45 min
- Session 2,3
  - Lecture from industry (TBA) – 35 min
  - Solar planning consideration for BISTS-Introduction (Andreas Savvides) - 40 min
- Session 2,4
  - Solar planning consideration for BISTS (Andreas Savvides) - 75 min
- **Day 3**
- Session 3,1
  - Modelling building integrated solar systems: methodology and examples (Annamaria) - 50 min
  - Hybrid PV/T systems (Yiannis Tripanagnostopoulos) – 55 min
- Session 3,2
  - Hybrid PV/T systems-cont. (Yiannis Tripanagnostopoulos) – 20 min
  - Life-cycle analysis of solar systems (Ricardo Mateus) – 45 min
- Rest of Session 3,2, Session 3,3 and 3,4
  - Solar planning consideration for BISTS (Andreas Savvides) – Teams of 4-5 students will work on optimising the spatial disposition of buildings to maximise solar insolation on building roofs and façades.
  - **Note:** During this period a one-hour visit to the Labs of the Institute of Heat Engineering, Warsaw University of Technology, will be arranged.