

SUBJECT DATA SHEET

Department:

Professional:

Title of the course

Code of the course

Leader of the course:

Semester:

Credit:

Number of the lessons:

Lectures:

Parctice:

Laboratory:

Type of exam:

Aims:

Short description:

Participation requirements during the semester:

Requirements to succeed the course/Outcome:

Deadlines/Time schedule:

Practice/Consultation opportunities:

Notes, textbooks, literature to be used/recommended:

Programme of the course:

	LECTURE	PRACTICE
1. week	Steady state air-to-air conductance Thermal conductivity Radiant heat exchange Heat transfer coefficient	Related calculations
2. week	Multidimensional heat flow, cold bridges Insulation layer penetrated by steel bars Resultant heat transfer coefficient	Related calculations
3. week	Non steady state heat transfer Heat storage capacity	Related calculations
4. week	Energy balance of windows Heat transfer coefficient of windows Low emissivity surface coatings	Related calculations
5. week	Shadow chart	Shadow chart
6. week	Shutters Radiation gains, the solar heat gain factor	Shadow chart
7. week	Basics of thermal comfort	Related calculations
8. week	HOLIDAY	HOLIDAY
9. week	Psychrometry	Related calculations
10. week	Convective moisture transport Vapour diffusion	Related calculations
11. week	Sorption, vapour penetration, non steady state analysis Acceptable moisture content	Related calculations
12. week	Condensation on the surface Capillary condensation	Related calculations
13. week	Hygrothermal conditions of mould growth Moisture balance in the room	Related calculations
14. week	Harmonization of moisture production, ventilation and building envelope	Related calculations
15. week	Summary	Summary