Aim of the research project

Research title:

Developing guidelines for an optimal indoor climate in classrooms for user-interactions in higher education

Ontwikkelen van richtlijnen voor een optimaal binnenklimaat voor gebruiker interacties in het hoger onderwijs
School climate and focus of research

Three-part approach to quality assessment

Indoor Environmental Quality in Classroom
(thermal, visual and acoustic conditions, indoor air quality)

Teaching & Learning
(quality of instruction, assessments of students, willingness of teacher, motivation of student, teacher etc.)

Student Outcome
(academic, behavioral, and psychological outcomes)

Wargocki & Wyon, 2017; Dawson & Parker, 1998; Wang & Degol, 2016
Indoor Environment affect cognitive performance

- Indoor environmental conditions
  - Thermal conditions
  - Indoor Air Quality
  - Acoustic conditions
  - Visual conditions

- Cognitive performance
  - Manual dexterity
  - Distraction & Attention
  - Motivation
  - Arousal
  - Neurobehavioral symptoms
  - Acute health symptoms
  - Sleep quality
  - Absenteeism
  - Fattique
  - Psychological distress

Optimal Classroom Experience