

THERMAL COMFORT STUDIES IN CLASSROOMS OF HIGHER EDUCATION INSTITUTIONS; A REVIEW

Nagaraju Kaja & Ramesh Srikonda

Department of Architecture, School of Planning and Architecture, Vijayawada (SPAV), Andhra Pradesh, India

Received: 28 Apr 2019

Accepted: 07 May 2019

Published: 17 May 2019

ABSTRACT

There are numerous higher education institutions in the region operating in naturally ventilated buildings. It's an open fact that students spend maximum time in a day in classrooms on working days. Productivity and student's wellbeing in classrooms are attributed to thermal comfort conditions. Because of its importance, studies of thermal comfort in classrooms at various levels of education have increased in recent years. The main objective of this research is to investigate the extent of research being done on the thermal comfort studies in higher education institutes in general and in India in particular. Studies have tried assessing the thermal environments in classrooms and compared them with the available thermal comfort standards. Most of the studies proved that the student's thermal preferences are beyond the thermal comfort range specified in the standards. The study results prove a point that a greater number of thermal comfort studies at the micro level are needed to understand the thermal preferences of occupants in various contexts.

KEYWORDS: *Adaptive Thermal Comfort, Classrooms, Subjective Analysis*