

support the heating system with a controlled system so that unnecessary fuel expenditures and indoor comfort conditions are not deteriorated.

In the study, measurement results were obtained in accordance with the thermal comfort conditions given in the standards in general in the classrooms examined as examples. The effect of the heat storage feature is also seen in the masonry structure, which has thick massive walls of varying thicknesses, built in the traditional system. It is also very important for sustainability that the building continues to serve as an education structure in today's conditions and provides the necessary thermal comfort conditions.

In the study, measurements were made for the heating season and evaluated accordingly. These measurements should also be carried out for summer conditions and periodic comparisons should be made. It is known that especially the heating season for Istanbul is between 15 October and 15 April. In this context, it has been observed that the range of objective and subjective experiments should be kept wider. In addition, the necessity of taking longer seasonal period measurements instead of weekly or daily measurement intervals and providing appropriate test conditions for this gains attention.

Nowadays, it is necessary to provide thermal comfort conditions in every building. This becomes even more important in educational structures. It is thought that the researched study will provide benefits in terms of energy consumption and environmental effects of buildings, as well as being productive and productive, by providing thermal comfort in educational buildings.



Aysil Coskuner Pamuk completed her undergraduate degree in Architecture at Mimar Sinan Fine Arts University in June 2014 and her Masters Degree in June 2018 at Mimar Sinan Fine Arts University, Architecture Dept; in Building Physics and Environmental Control field. She is currently a Ph.D. Student in İstanbul Sabahattin Zaim University, Architecture Dept.

Aysil truly believes in protecting our environment, to leave a better world for the young generations. She has been very active during her undergraduate years, in joining many international and national workshops and seminars. She is specialized on typology studies and environmental building surveys on the villages of Turkey and Sustainable Architecture. She is doing various workshops on Energy Simulation Softwares for Buildings and ecological and sustainable materials and participates as guest speaker in several conferences in this field. Her articles and papers on Application of Phase Change Materials in Energy Efficient Buildings have been issued in national and international publications

R.A.Coskuner Pamuk won the first prize in the poster award at the " 4. IAPS-CSBE Design Ateliers" in 2012 (as a part of Istanbul Design Biennial), under the name "A Palimpsest City Istanbul"

REFERENCES

- [1] E. Mihayanlar, E., Kartal, S. Yılmaz, " Investigation of Thermal Comfort Conditions in Higher Education Buildings: The Example of Faculty of Architecture," *Süleyman Demirel University, Journal of Science Institute*, vol. 20
- [2] N. M. Kamani, R. Tchinda, N, Djongyang , " Field Study of Thermal Comfort in Naturally Ventilated Classrooms of Cameroon, " *Universal Journal of Environmental Research and Technology*, Vol. 3, Issue 5 .pp. 555-570, 2013
- [3] *Thermal comfort*, Danish Technical Press, Copenhagen , Fanger, P.O. (1970)
- [4] *Ergonomics of the thermal environment-Assessment of the influence of the thermal environment using subjective judgment scales*, ISO 7730:2005(E), Switzerland, (2005)
- [5] "Ergonomics of the thermal environment-Analytical determination and interpretation of thermal comfort using calculation of the PMV and PPD indices and local thermal comfort criteria", International Organisation for Standardisation, Genova, ISO Standard 7730, 2005.
- [6] *Thermal Environmental Conditions for Human Occupancy*, American Society Of Heating, Ventilating and Air-conditioning Engineers, ASHRAE, ANSI/ASHRAE Standard 55, 2013, Atlanta.
- [7] "Investigation of Indoor Comfort Conditions in Educational Buildings (2014-102). Trakya University, Scientific Research Projects Unit (TÜBAP), 2014