

Attapol Sukkho 2013: Structural Equation Modeling for User Satisfaction of Academic Buildings. Master of Engineering (Civil Engineering), Major Field: Civil Engineering, Department of Civil Engineering. Thesis Advisor: Associate Professor Sutharin Sthapitanonda, Ph.D. 146 pages.

The objective of this research was to develop the structural equation model for user satisfaction of academic buildings in a government university. 260 questionnaires for building 1 and 278 questionnaires for building 2 were collected from students and university staffs. This research applied the exploratory factor analysis (EFA) and the structural equation modeling (SEM) techniques as the analysis tools. The results showed that the factors affecting user satisfaction of the academic building were the architectural design factor, the engineering design factor, construction quality factor and the building operation factor. For both building 1 and 2, the study revealed that the construction quality factor was the most influence factor of the user satisfaction with factor loading of 0.69 and 0.88 respectively. The developed user satisfaction model could explain 82% of the total variances for building 1 and 77% of the total variances for building 2. Therefore, the construction quality should be carefully considered during the construction acceptance process since it is the most affected factor.

---

Student's signature

---

Thesis Advisor's signature