The primary research objectives are to study the functional space assignment for office type facilities under multiple conflicting objectives or goals, development of a solution method for the space assignment problem and identification of the major factors affecting space assignment.

Office space has been classified by the function it serves and by the geographic area or regions it is supposed to cover. The solution method developed for this multidimensional problem is a heuristic model based on Goal Programming principles. The objective function considered were (1) optimization of selected quantitative factors, such as various costs, and (2) optimization of selected qualitative factors, such as environmental benefits, activities relationship, etc.

Verification of the model was accomplished by comparing results from the heuristic model with optimal results generated by Goal Programming.

It may be concluded that the heuristic model developed provides management with a new and relatively easy to use as a tool for analyzing complex decisions involving the assignment of functional space for office type facilities.