

ABSTRACT

This research has the main aim of presenting a Decision Support System for Replacement Analysis in the industries or other types of business. The decision support system is developed with Microsoft Excel'97 by using Visual Basic to write the command to run the program smoothly and more comfortably. This program consists of six parts: 1) Inquiry for Replacement machine for calculating the replacement analysis, 2) Depreciation Calculation, 3) Search Information for keeping the information of any company that is involved in the business of the company, 4) Calculation Payment for the user know-how; annual payment in case of using the loan, 5) Supporting Information for knowing the short cut of Replacement Analysis and Depreciation Analysis, 6) Maintain Information for adding and changing the information for Search Information.

The analysis management subsystem is divided in two main categories: the economic life of the defender, and the replacement analysis which is composed of three parts: a) Capacity expansion analysis, b) Comparison between the defender and the challenger, and c) Lease or buy analysis.