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| Administration And Economic College  | College Name |
| industrial management | Department |
| Bushra Sabeeh Kadhim | Full Name as written inPassport |
| Bushras.@codec.uobaghdad.edu.iq | e-mail |
|  |  |  | **Assistant lecturer** | Career  |
|  |  |  |
| ***Using Preventive Maintenance To achieve the Competitive Advantage: Designing Suggested Program*** | Thesis Title  |
| 2006 | Year |
| **The increased size of investments in industrial companies has given the maintenance function a great importance as a means of increasing the productivity, increasing the productive life of machines, and in achieving the competitive advantages through cost reduction, quality, flexibility, and on time delivery.** **Through field observations, at Tamouz Factory for Airconditionners Manufacturing, personal observations, and data analysis of company records, the searcher concluded that the Factory implements a corrective maintenance strategy. The searcher also osbserved the abscence of scientific methods use in palnning and scheduling of the maintenance activities at the Factory which was reflected negatively on the ability of the Factory to compete at the local market lately.** **Therefore, this study represents an effort to design a computerized system of preventive maintenance for the machines of the Factory. This research, also, aims at providing the Factory with a systematic framework to reduce machine downtime. The research improtance stems from the fact that the proposed system will help the Factory in: evaluating machine effieciency, analyzing reasons of machine downtime, and scheduling the maintenance activities.** **The analysis conducted by the searcher helped in: designing a computerized preventive maintenance system, scheduling the maintenance tasks, grouping machines according to certain criteriea, performing a financial analysis to determine the optimal age to replace the machines at the Factory.****To accomplish this the searcher used the following tools: the Microsoft Basic V-6 to design and run the computerized preventive maintenance program, the Excel and Acces software to create the data base of the system, the Paint program to draw the screens, and the proper mathematical tools to schedule the maintenance activities.** **The research concluded that the current corrective maintenance strategy implemented at the Factory will not sustaine the Factory in achieving the competitive priorities, therefore it is suggested that Factory should implment the computerized preventive maintenace system designed in this study** | Abstract  |