

Sirilux Thongphan 2014: Development of Decision Support System for Production Planning in Pharmaceutical Factory. Master of Engineering (Industrial Production Technology), Major Field: Industrial Production Technology, Faculty of Engineering. Thesis Advisor: Mr. Peerapong Triyacharoen, Ph.D. 109 pages.

Production planning is necessary for all industries because it is the driver for manufacturing to reach their operational targets. At the present time, strong competition forces suppliers to produce the best quality of product without significant errors. So, a good management system and production planning tool will help the suppliers to control their manufacturing costs and manage the lead-times to fulfill their customer requirements promptly. This research presents the design and development of a production planning system that uses Microsoft Excel to assist suppliers in making decisions about manufacturing of Pharmaceuticals in a model industrial factory.

The Microsoft excel program was designed to be user-friendly with zero installment cost. In addition, the accompanying management process helps to establish stronger links between the functions of Marketing, Planning and Production in an organization, which will optimize the productivity and increase the efficiency of production planning. Moreover, this program will help to reduce the uncertainty of processing and plan the production properly under the conditions of a model industrial factory.

Student's Signature

_____/_____/_____
Thesis Advisor's Signature