

Thesis Title	Business Process Redesign of the Production Planning in the Pharmaceutical Industry
Thesis Credits	12
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Program	Master of Engineering
Field of Study	Industrial and Manufacturing System Engineering
Department	Production Engineering
Faculty	Engineering
Academic Year	2014

### Abstract

Pharmaceutical Industry is important because it manufactures the product related to health and human life. Typically, a manufacturer must adequately plan the production in order to meet the customer demand; nevertheless, The Government Pharmaceutical Organization (GPO) does not have the Master Production Scheduling (MPS). Therefore, this thesis presents the business process redesign of the MPS for the tablet manufacturing process at The Government Pharmaceutical Organization. The objective of this study is to plan synchronized master production schedule of tableting, coating and packing by the heuristic algorithm development for the priority setting of product items. The MPS can be created the related start date to finish date scheduling in each process of tablet production. This MPS methodology is then applied to example data sets, resulting in the linkage MPS plans of all production units with all products delivered on time.

**Keywords :** Business process / Master production scheduling / Heuristic algorithm / Pharmaceutical