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MOHAMMAD YEAKUB ALI

AKM NURUL AMIN

**DESIGN FOR MANUFACTURE**

Towards Improved Manufacturability



**IIUM Press**

# DESIGN FOR MANUFACTURE

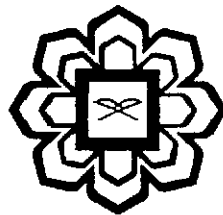
## Towards Improved Manufacturability

### EDITORS

ERRY YULIAN TRIBLAS ADESTA

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# **The Introduction of Fit Manufacturing as a Performance Measuring Approach towards Sustainability of Selected Manufacturing Companies in Malaysia**

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## **1. Introduction**

The manufacturing companies tried to use lean and agile manufacturing initiatives to improve their productivity and competitiveness. However, there are some restrictive due to the short term benefits. Hence, manufacturing companies should look at becoming “fit” through the integration of Lean, Agile and Sustainable Manufacturing to achieve a level of fitness that unique to a company.

## **2. Problem Statement**

The main purpose of this paper is to propose the implementation of Fit Manufacturing as a new performance measuring approach towards company sustainability for companies in Malaysia.

## **3. Fit Manufacturing**

Manufacturing strategy can be defined as the development of manufacturing competitive strengths that are aimed at assisting an organization to realize its competitive objectives (Amako-Gyampah and S-Boye, 2001). Fit Manufacturing is comprises of the three integration strategies or elements of Lean Manufacturing, Agile Manufacturing and Sustainability Manufacturing. The Fit Manufacturing is “an integrating strategy to ensure that combines the LM and AM concepts to ensure that the manufacturing company operates in a sustainable manner and remains competitive as markets change in the future” (Pham D.T. and Thomas A.J., 2005).

## **4. Lean Manufacturing**