

Accepted Manuscript

Team Based Labour Assignment Methodology for New Product Development Projects

Serdar Baysan, M. Bulent Durmusoglu, Didem Cinar

PII: S0360-8352(16)30464-8

DOI: <http://dx.doi.org/10.1016/j.cie.2016.11.032>

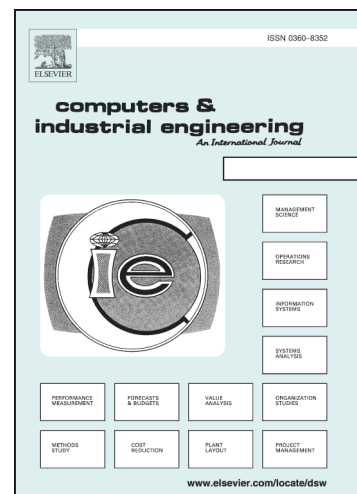
Reference: CAIE 4548

To appear in: *Computers & Industrial Engineering*

Received Date: 22 April 2015

Revised Date: 13 November 2016

Accepted Date: 26 November 2016



Please cite this article as: Baysan, S., Bulent Durmusoglu, M., Cinar, D., Team Based Labour Assignment Methodology for New Product Development Projects, *Computers & Industrial Engineering* (2016), doi: <http://dx.doi.org/10.1016/j.cie.2016.11.032>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Team Based Labour Assignment Methodology for New Product Development Projects

Serdar Baysan^{a,1}, M. Bulent Durmusoglu^a, Didem Cinar^a

^a *Department of Industrial Engineering, Faculty of Management, Istanbul Technical University,
Istanbul, Turkey*

¹ Corresponding author

Email addresses: baysans@itu.edu.tr (Serdar Baysan), durmusoglum@itu.edu.tr (M. Bulent Durmusoglu), cinard@itu.edu.tr (Didem Cinar)

Team-based Labour Assignment Methodology for New Product Development Projects

Abstract

This study explores the organizational aspects of new product development projects and proposes a new team-based labour assignment methodology. The proposed hierarchical methodology focusses on the project value stream and aims to shorten lead time through waste reduction. Lean product development tools, such as clustering and design structure matrix tools, are integrated with the methodology. A detailed real-life case study is presented and the proposed methodology is evaluated using discrete event simulation. Experiment results show that the proposed methodology and team-based structure provide superior lead time performance when compared to conventional organizational setting. This study contributes to existing literature by presenting evidence of the effect of teams on NPD lead time performance.

Keywords: Product Development; Teams; Lean; Value Stream Mapping; Design Structure Matrix; Simulation

1. Introduction

¹ Corresponding author

Email addresses: baysans@itu.edu.tr (Serdar Baysan), cinard@itu.edu.tr (Didem Cinar), durmusoglum@itu.edu.tr (M. Bulent Durmusoglu)

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات