ABSTRACT

In the faculty of industrial engineering at Telkom University has several

laboratory facilities to support the understanding of industrial engineering

students, one of which is the Facility Layout Design Lab (PTLF). But in the

course of PTLF itself has not been available learning media shaped model or

simulator. By using *Design For Assembly* the author analyzes the design concepts

of previous researcher simulators and provides proposed designs to reduce the

number of parts on the design concepts and increase the value of efficiency on

design concepts.

Design For Assembly is a design technique that is needed to provide ease in

consideration of making a product design. Boothroyd Dewhurst method with

Manual Assembly was chosen because the product was not mass-produced but

only used for instructional media in the Facility Layout Design laboratory at the

faculty of industrial engineering at Telkom University.

The authors analyzed the DFA values of existing design concepts and then

designed simulator designs for layout learning facilities from previous research

design concepts to get designs that had fewer components, had faster assembly

time and higher assembly efficiency.

Keywords: *Detail Design, Design for Assembly,* DFA, *Simulator, Props.*

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