An Analysis Efficiency of Long-Term Scheduling in the Production Process Of Manufacturing Companies: A Systematic Literature Review

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Abstract

Long-term scheduling is the culmination of the production process which includes research, development, and planning of new products, as well as factory development. There are various methods of long-term scheduling that can be used by manufacturing companies, such as metaheuristics, Production Control System (PCS), Campbell Dudek Smith (CDS), palmer, genetic algorithms, Stochastic Integer Programming (SIP), Critical Path Method (CPM), etc. The combination of long-term scheduling methods and long-term scheduling systems will result in optimization and efficiency of the company's production process. Thus, based on research that has been done with the SLR method which aims to analyze the efficiency of long-term scheduling in the production process of manufacturing companies, it is concluded that the use of long-term scheduling can provide optimal and efficient results when combined with the long-term scheduling method with an efficiency level of 35.23%. Keyword: Long-term scheduling efficiency, Systematic Literature Review, Manufacturing Companies.

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