

ABSTRACT

PT. XYZ is a company engaged in the installation and maintenance of telecommunication facilities. One of the projects that has been carried out by PT. XYZ is monetary & human resource Room Renovation project. The project experienced problems, that is the overallocation of the project builders. The maximum capacity for builders in one day is 12 people. Overallocation occurs on the 12th day to the 17th day with the use of builders is 14 people, and on the 18th to 26th day with the use of builders is 16 builders, so it is necessary to do resource leveling to overcome these problems.

The purpose of this final project is to improve the scheduling by using the modified minimum moment method. By using this method, the optimal resource allocation occurs when the number of moments is minimum, so that the resource histogram approaches a square shape.

After resource leveling, there was a shift in project activities, and there was a decrease in the maximum use of builders, from 16 people to 12 people, without increasing the duration of project, so this method can be used to avoid overallocation on this project without changing the activities constraint.

Keyword: resource leveling, modified minimum moment method, overallocation