

## **Abstract**

PT Arisamandiri Pratama is a company that produces various kinds of electronic equipment and plastic equipment. One of the products TV electronics are manufactured with various types of TCL Brand. Various types of TVs are manufactured in a single trajectory. Application Mixed Model Assembly Line has not been fully performed by the company. In addition, failure to achieve the production target the company also became problem to be solved.

Therefore, this thesis aims to overcome obstacle companies faced with how to balance the production line with Modified Ranked Positional Weight method and scheduling products on mixed model assembly line that reduced the number of stations 33 workstations to 12 workstations. From the result of scheduling products, production sequence obtained <2-1-2-1-2-1-2-2-1-2-2-2-1-2-1-1-3-1-3-1-1-3-3-3>

Keywords: Optimation, Mixed-Model, Assembly Line