

ABSTRACT

The use of computers today have penetrated all layers of society, both desktop and laptop computers. Especially laptops lately become people choices. However, the higher usage has not been counterbalanced by the presence of a device that accommodates the needs of laptop users, one of them is seat, so users are forced to use a seat that exists now. As a result, users are unconsciously doing coercion posture. This is potentially causing either minor or severe injury.

This research discusses how to design an ergonomic seat for laptop users so it can reduce the risk of injury that may be experienced by users when it is used. This research was done by following rational method that focused on ergonomic analysis. In the early stages, the research begins by collecting the required data for design. Then, the data processing that produces the data percentile of each dimension of the body that will be used is done.

Rational method begins with a determination of design objectives that form the principal design criteria. At the stage of determining characteristic, it applies ergonomic analysis that produces the option used and the dimensions of the body used percentile. Then the product alternatives are generated, the alternatives could be materially and the form of the product itself.

At the end of the rational method, the value engineering analysis was done by weighting on each of these alternatives to be taken as an alternative proposal. In this design, the proposal is only in the form of graphic design, rather than finished products / prototypes. Product testing is needed to ensure user feedback about the design that has been created.

Keywords: ergonomic, seat, rational method, VDT