

REDESIGN OF THE MULTI-DIMENSIONAL INTEGRATED LABORATORY OF SBSN ISI SURAKARTA ACTIVITY APPROACH

ABSTRACT

The Multi-Dimensional Laboratory at ISI Surakarta plays a vital role in supporting academic activities, research, and experiments in the fields of art and design. However, the current layout and facilities are not yet optimal in supporting various user activities. Therefore, this study aims to redesign the Multi-Dimensional Laboratory using an activity-based approach to improve user efficiency, comfort, and productivity. The methods used in this study include literature review, field observations, and user needs analysis through interviews and questionnaires. The activity approach was applied by identifying work patterns, user interactions, and space requirements appropriate to the various types of activities taking place in the laboratory. The results of this study yielded a laboratory redesign concept that is more ergonomic, flexible, and adaptable to technological developments and the latest learning methods. This redesign is expected to create a more functional laboratory environment, support creativity, and enhance the effectiveness of learning and research at ISI Surakarta.

Keyword : Redesign, Multi-Dimensional Laboratory, ISI Surakarta, Activity Approach.