

ABSTRACT

Bags are an important need to support daily activities, including supporting a lifestyle of cycling to work (Bike to Work). Previous research has designed a modular backpack to support Bike to Work activities, but there are still limitations in the dimensions of the front pocket and side pocket compartment modules. The limited dimensions of the module cause the usable storage space to be less than optimal. This study aims to redesign the backpack module with a modular concept that can be applied to the bicycle room as a solution to support bike to work activities. The research method uses a qualitative approach with the SCAMPER method and data collection techniques in the form of observation, interviews, and questionnaires distributed to the Bike to Work community. The results of this study produce a design for a bag module that can be installed in the bicycle room with a modular system and features that suit user needs such as additional compartments, waterproof materials, and ease of installation. This design is expected to provide comfort, safety, and efficiency for cyclists in carrying work equipment.

Keywords : Dimensions, Backpack, Compartement, Modular, Bike to Work.