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| GP1015 | Design of a Mobility Vehicle for Urban Transport from Metro Stations to Homes in Bangalore | | |
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A safety drive is every ones desire. A personal mobility vehicle offers so many advantages over other means of transportation from metro to home vice versa. In the current scenario vehicles makes high sound, long traffic, public nuisance, environment pollution, long waiting hours and high exploitation of public. This project is an attempt to bring a solution for the problem facing the future metro and environmental hazardous caused by the vehicles in India.

The research has been carried out by the users of daily metro of Bangalore. The requirements and aspirations about Personal Mobility Vehicle are done by the means of Product Study, Market Study, Literature Review, Questionnaire Survey, User Study, Ethnographic Research etc. Quality Function Deployment (QFD) was done considering customer and technical voice obtained as a result of the research. Detailed Product Design Specification (PDS) was created by considering all the important parameters. Concepts were generated based on the visual theme board and mind mapping metaphors. Five different concepts were made. All the concepts project the Cutest, Stylish, Customer safe and trendy expression of the targeted customer. As per the weighted ranking method "MIIH" named concept was selected as the final concept.

Data collection and analysis helped to understand the user needs and helped to design a better personal mobility vehicle to satisfy the user needs. Bangalore Metro color combination is provided as well as eco-friendly engines are considered to run the wheels. Our product offers roofed-safety, eco-friendly green vehicle carrying boot space and helps metro users efficiently. Personal Mobility Vehicle model is finished with 3D Alias software and model was made to scaled size and feedback are taken from the targeted customers who using daily metro.



Design process for mobility vehicle for urban transport