

Applied Art and Design

Application and Appreciation
of Islamic Heritage in
Contemporary Context

Mandana Barkeshli



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CHAPTER SEVEN

INDUSTRIAL DESIGN EXPLORATION ON EDUCATIONAL PEDIATRIC WHEELCHAIR DESIGN

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ABSTRACT

This chapter presents the research of wheelchair bound kids. It also explains the industrial design exploration of an electric wheelchair for kids with disabilities aged 5- 8 years old (Middle Childhood). The wheelchair that is capable of giving activities towards the disabled kids with the feelings of joy and satisfaction while also learning. This is focused on the implementation, personalization, and education in a conventional wheelchair designed for use among people with disabilities. The chapter will also discuss activities of a kid's wheelchair user, the difficulties and challenges, and how the existing wheelchair affects the lifestyle. This includes understanding the existing pediatric wheelchair for basic design knowledge. As a result, it is concluded that by implementing the elements of education into a wheelchair design, it would solve a part of their disabilities challenges besides giving them the opportunity to live a normal life like the others.

[Keywords: Wheelchair bound kids, educational element on wheelchair, wheelchair design.]

INTRODUCTION

In 2000, the world leaders gathered at the Millennium Summit in New York and committed themselves to cut poverty in half by the 2015. It is also agreed upon that all boys and girls should be educated because education is the most effective way through which livelihood can be improved. Among these children are those who are often kept out of school and live out of sight in their own communities. These are children with disabilities who need special attentions. These disabilities are of different kinds, ranging from physical, sensory, and emotional, to hidden or visible disabilities.

Children with physical disabilities study in normal schools along with their normal peers. Teachers should understand the physical and emotional needs of children with physical impairments. If a teacher adopts appropriate methods to provide support and assistance to children with physical impairments, their peers will also learn how to help them. Before giving any assistance to a child in the wheelchair first ask him/her if he/she requires your help. It is better to ask the child how and when he/she requires your help. One to one conversation will help the teacher understand the special needs of physically disabled children in a better way along with their peers.