

FOLDABLE TRICYCLE

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ABSTRACT

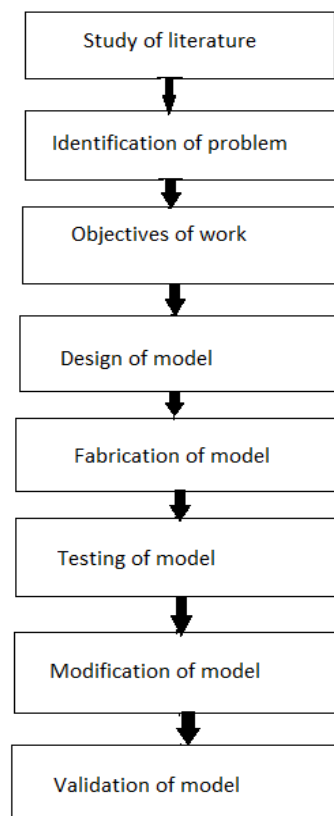
The Foldable tricycle is made by large number of instruments which make them complex. It contain insufficient space. Few are not foldable in a configured geometrical order, which has complex transportation. It may contain lot of complex structures, when it can be modified in future use. This paper aims at evaluating the foldable tricycles in the market and proposing a compact foldable tricycle which has less weight and overcomes all the limitations in the available tricycles in the market. The tricycle is designed that it is foldable by providing are not met by the existing foldable tricycles.

Keywords: Foldable Tricycle, Conceptual Design, Geometrical Order, Transportation.

I. INTRODUCTION

A tricycle, a power of human which contain three wheels. A three wheeled tricycle would be able to maintain his cycle locking. The first front steering tricycle , which was brought to the market. They also designed to fold into a compact form, facilitating transport and storage[1]. The first phase understanding the opportunity deals with the identification of customer needs which define the problem to be accessed various tools like customer survey interviews and interviews are used to understand the customer needs. The next stage conceptual design deals with finding the solutions to solve the problem[2]. It is done for the fabrication and the folding tricycle.

II. METHODOLOGY



II. NEED OF PROJECT

Don't let physical limitations stop your special needs for enjoying a ride! Reaching beyond the typical concept of the traditional three-wheeled tricycle, special needs tricycles sport three wheels and a host of innovative design features to meet the wide variety of disabilities. They offer greater stability and functionality, enabling riders of all ages to experience the thrill of riding, empowering, teens, and adults with special needs to explore their world. Also known as adaptive tricycles, trikes, special needs tricycles are enjoyed by a wide range who live with. With the remarkable strides being made in today's world of adaptive technology, special needs tricycles are able to safely accommodate a larger number of people. Just because your child uses a tricycle doesn't preclude ventures outside and enjoying the feeling of independence and freedom that derives from riding a tricycle.



Fig.1: Foldable Tricycle



Fig.2: Unfoldable Tricycle



Fig.3: Frame



Fig.4: Chain Wheel with Paddle



Fig.5: Rear Wheel



Fig.6: Front Wheel

III. RESULTS AND DISCUSSION

- **Saves space-** The most obvious advantage these bikes have over regular ones is that they occupy a considerably less amount of space.
- **Easy to travel with-** Whether you are using public transport or your personal car to travel, you can carry your foldable bicycle without any restrictions. In public transportation, regular bikes are usually not allowed, but folded bicycles can be carried like any other luggage.
- **Fewer chances of getting stolen-** Since you can fold up your bike and take it indoors, you do not have to lock your bike outside and constantly worry about it getting stolen. Of course, while some bikes are more compact than others, most of them are small enough for you to carry.
- **Additional Stability-** The third wheel added to a tricycle makes it more stable than a bicycle, meaning you can maintain your balance far much better than you can on top a bicycle.
- **Enhancing Outdoor Exercising-** When riding on an upright seat tricycle, most of the works are done using your hands and legs, a process which enables you to loosen the muscles of your hands and feet, while still maintaining a balanced seating position.

IV. CONCLUSION

- Folding ease and flexibility of tricycle is obtained.
- In Future we will modify the foldable tri-cycle into a “wheel chair” after changing the some parts or, replacing the chain mechanism into motorized and seat will be changed.
- So based on design and calculation “Modified Tricycle for normal People and completing the model for developed parts to enable to use it, there are severely recommendations which could be achieved in the future.

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