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Guided By

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Project Title

**BUTTON OPERATED SHIFTING GEAR MECHANISM WITH
COMBINE CLUTCH AND ACCELERATOR IN TWO WHEELER**

Abstract:

In this study, a gear shifting mechanism is designed and applied to make the shifting process faster and less destructible for the driver. The new device must be reliable, low construction and maintenance cost. This paper aims to improve gear shifting process using the electromagnets, gears, bearings, iron discs, springs. According to this gear shifting method, a person could change the gears with the help of buttons. In this study, a gear shifting mechanism was designed and applied on an auto clutch featured bike to make the gear transmission process faster and less destructible for the two wheelers. The present automatic transmission costs very high and it is not suitable for small displacement engines i.e. two wheelers. This new device must be reliable, has small dimensions, economical and low maintenance cost. This project aims to improve the gear shifting process with a suitable control mechanism to implement in electromagnetic clutch featured bikes. But the gear transmission mechanism designed makes driving easier and to achieve efficient driving. And changing gears with buttons gives totally new experience to the driver. Also in this, clutch and accelerator are operated at same time in one lever. So there is no need to operate clutch separately. This system makes working of motorcycle very easy and safe.

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