

Department : **Mechanical**

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Group No: **31**

Guided By

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Project Title

AN AUTOMATED GUIDED VEHICLE (AGV)

Abstract:

The Automatic Guided Vehicle refers a type of system that can be used in production as well as in other industries etc. This system includes a battery operated remote sensing locomotive (carrier) on which a small lift is provided, specific path over which it moves, sensors for sensing the obstructions on the path of the carrier. Also sensors for sensing exact positions from where load wants to carry and to where.

The remote sensing carrier moves using the electric power from the battery. It moves with a low and constant speed on the prescribed path. The path has a specific colour. The bottom of the carrier have sensor which is always coupled with the path. From the remote station we send only information for moving the carrier, not for steering it. The steering is done by the path. The front side of carrier vehicle contains sensors for sensing the obstructions on the path.

As it reaches the collecting station, its top floor lift to a small distance and lift the stand which contains the parts wants to assemble, supply. And the carrier moves through the path and reaches the supply station. The sensor provided on the carrier detected the station and unload the stand contains assembly parts at that station. And move to collecting stations again. Continues working cycles for making this project a reality.

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