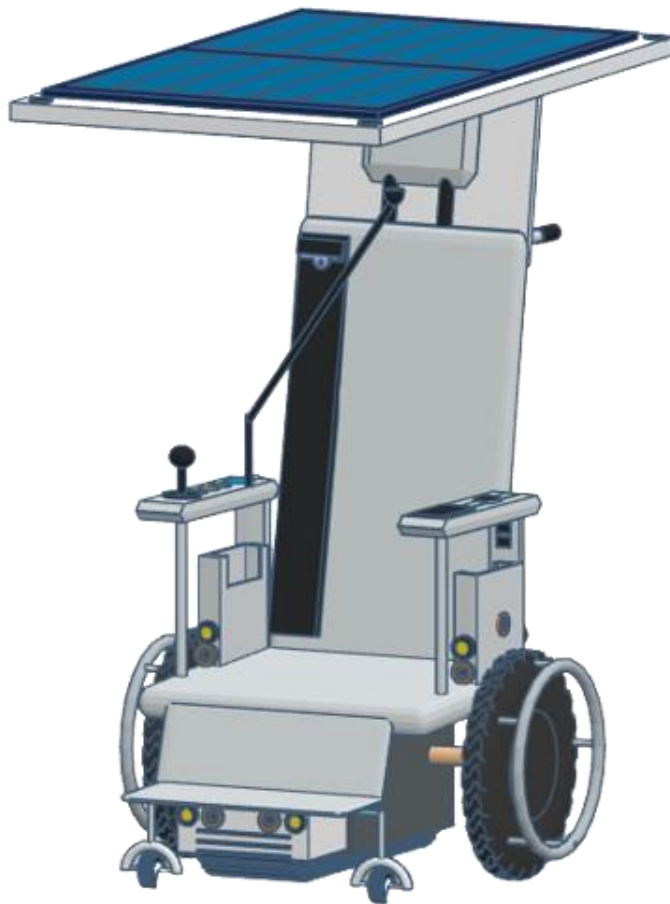


# Smart Wheelchair

A design right approved by IPR office, GoI was obtained by the Innovation Hub Member by Miss. N.M.Shreehaasini from Std-VII Sacred Heart Central School CBSE school in V. Marudur, Master Kapilkumar.P & Master Kanishkumar.P from Std-XI of St. Patrick's Higher Secondary School Puducherry for their project 'Smart Wheelchair' (Design No. 477241-001) on 01.04.2026.



## **DESCRIPTION:**

The Smart Wheelchair is an advanced mobility solution designed using artificial intelligence, sensors, GPS tracking, voice control, and obstacle detection technology. It provides safe, comfortable, and independent movement for elderly and differently-abled people. The wheelchair includes automatic braking, health monitoring, and smartphone connectivity for real-time assistance. Its innovative technology improves accessibility, safety, and quality of life in modern healthcare and daily transportation.

## **FUNCTIONALITY:**

- This Wheelchair Can Climb Stairs.
- It Has An Inbuilt GPS Tracker For Safety.
- This Wheelchair Has An Air Bag Inside The Seat Belt.
- This Wheelchair Uses Ultrasonic Sensors For Obstacle Avoiding While Travelling.
- A Solar Panel Is Fixed On The Roof For Extra Energy.

## **KEY FEATURES:**

- Stair Climbing Mechanism
- Storage Compartment
- Air Bag In Seat Belt
- Solar Panel For Energy Utilisation
- Headlights In Case Of Night Driving
- Removable Chin Control Mechanism
- Smart Watch For Health Monitoring (Heart Beat, Blood Pressure)

