# Design and development of a prototype Omnidirectional Robotic platform

# **Abstract**

## **Objective**

The objective of the project is to design and develop a prototype omnidirectional robotic platform for a robotic arm mounted on it.

#### Scope of Work

The scope includes the following:

- Development of the CAD model of a prototype Omnidirectional Robotic platform (ORP) as per conceptual model provided by IPR;
- Analysis and optimization of the required components for ORP;
- Physical prototyping to demonstrate the proof of concept (PoC). The required actuation components and any other material will be provided by IPR.
- The control system exists at IPR. IPR will provide support in the integration and testing of the prototype ORP.

## **Project Duration:**

4 months

#### **Number of Students:**

2 (Max)

Eligibility: Only students of <u>Mechanical/Mechatronics engineering</u> branches can submit their application at following email addresses

Preference: Student should have exposure of CAD modeling and Analysis software

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