



ROBOCON - CRCE

Wired Coded Welded



WHAT IS ROBOCON ?

- ▶ The Asia-Pacific Robot contest (ABU Robocon) is an international Robotics competition which witnesses the best robots from various nations competing against each other for a particular task based on the culture of the country hosting it.



OUR ACHIVEMENTS

Year 2016	Year 2017	Year 2018
<ul style="list-style-type: none">▪ THEME: CHAI - YO : Clean Energy Recharging the World.▪ Ranked 21st amongst 105 colleges at National level.▪ Ranked 1st amongst Mumbai colleges.	<ul style="list-style-type: none">▪ THEME: ASOBI : The Landing Disk.▪ Ranked 18th among 112 colleges at National level.▪ Ranked 2nd amongst Mumbai colleges.	<ul style="list-style-type: none">▪ THEME: NEM CON : The festival wishing happiness and prosperity.▪ Ranked 26th amongst 126 colleges at National level.▪ Ranked 3rd amongst Mumbai colleges.



CURRENT PROBLEM STATEMENT

- ▶ The ABU Robocon 2020 theme, Suva, Fiji is to play rugby 7's game using two robots and five obstacles as five defending players. The highlight of the game is how would the two robots collaborate to score Try and Goal Kick.

- ▶ For further details :

<https://youtu.be/9Gwg4JXFjV0>



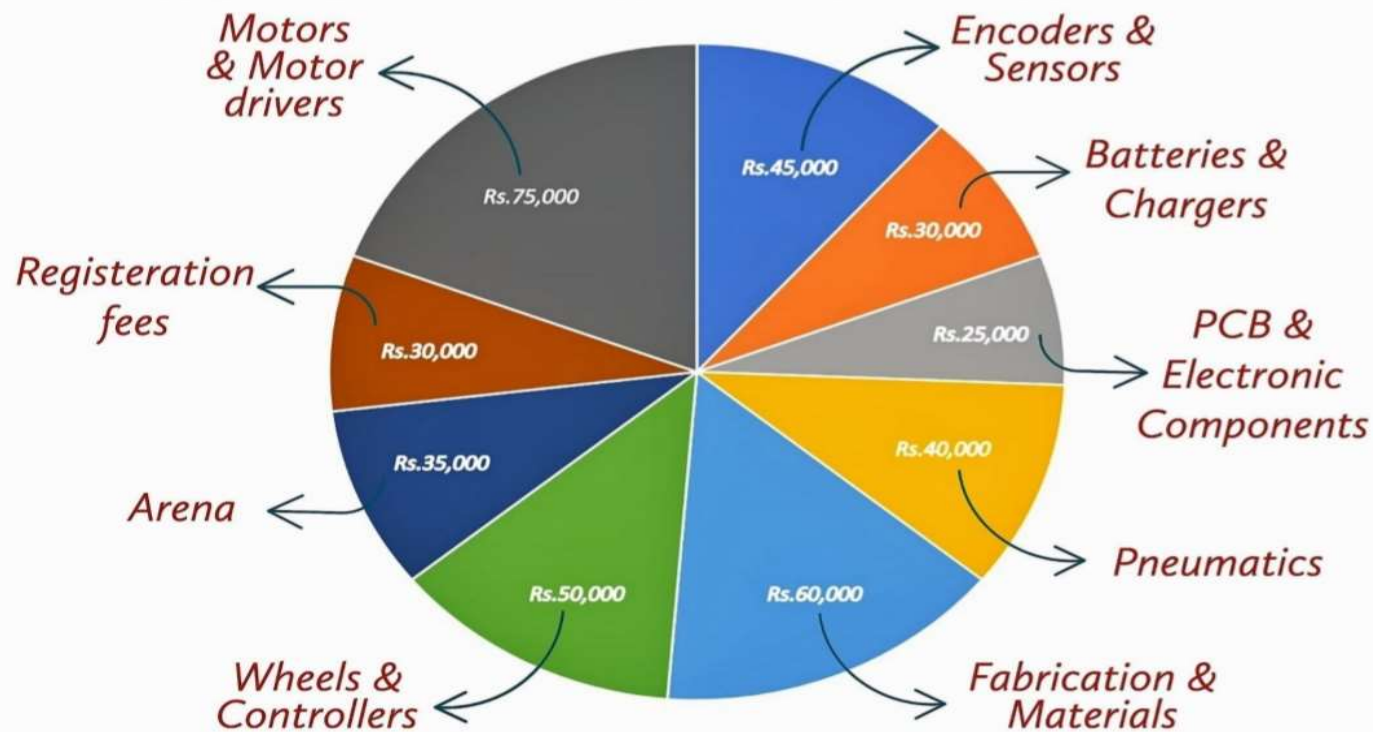
COMPETITION DETAILS

- ▶ DD-Robocon 2020 will be organized by IIT Delhi on June 14, 2020 (Sunday) on behalf of Doordarshan (DD), the National television broadcaster of India.
- ▶ The teams will be shortlisted in two stages for participation on June 14, 2019
 - Stage 1:** Solution of ideas (Proposal) by January 31, 2020. Shortlisting tentatively by February 15, 2020.
 - Stage 2:** Proof of concept (Video & Technical Report). Submission by April 15, 2020. Shortlisting tentatively by April 30, 2019



MONEY Requirements

Estimated Budget (INR 3,90,000)



WORK COMPLETED TILL NOW

- ▶ CAD models of mechanism (solid works).
- ▶ Prototypes of all the mechanisms.
- ▶ Implementation and Testing of mechanisms.
- ▶ Selection and Testing of Batteries, Microcontrollers , motors and motor drivers to be used on the main bot.
- ▶ GPBs are ready.
- ▶ PCB making in process.





THANK YOU

Team -Robocon CRCE