



# GUJARAT TECHNOLOGICAL UNIVERSITY

(Established by Government of Gujarat under Gujarat Act No. : 20 of 2007)

## ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી

(ગુજરાત સરકારના ગુજરાત અધિનિયમ ક્રમાંક : ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

Ref: GTU/GIC/CiC3/Robocon/2023/ 8639

Date: 30/11/2023

## Team Formation for GTU ROBOTICS CLUB (ROBOCON-2023-24/Mitsubishi-Electric Cup/ e-Yantra/ Hack-A-Thons)

Under the visionary leadership of the Vice Chancellor of Gujarat Technological University, the GTU Robotics Club is continuing this year with a goal to build a team to represent GTU in various competitions like ABU Robocon Competitions, Techfest, and Hack-A-Thons and Automation competitions like Mitsubishi Electric Cup. GTU Robotics Club invites all the GTU-affiliated colleges to encourage their students to take part of this companionship of cooperative innovation and education.

Robotics and automation have been a growing industry for over two decades combining multiple disciplines of engineering. It incorporates fields like circuit designing, mechanical manufacturing, programming, and CAD design. In order to equip students with skills meeting the growing technological advancement and allow them to showcase their team spirit and decision-making skills, the GTU Robotics Club was established in 2016 with a team of talented and enthusiastic students from GTU-affiliated colleges. The club attempts to expand its technical knowledge and cooperation skills through participating in multiple national and international Robotics competitions, Techfest, and Hack-A-Thons.

To register online:

<https://forms.gle/678Ath2R2xHQHF2d6>

Registration is open for BE/Diploma in EC, IC, EE, CE/IT, Mechanical, Mechatronics, Automobile Engineering

**Last Date of Registration: 7<sup>th</sup> DEC 2023**

Selection of Students will be held.

9<sup>th</sup> DEC 2023 @ GTU Chandkheda Campus

11<sup>th</sup> DEC 2023 @ GISC Rajkot Regional Centre, AVPTI Campus, Nr. HemuGhadhvi Hall

13<sup>th</sup> DEC 2023 @ GISC Surat Regional Centre, Dr. S & S.S Ghandhy College of Engineering

For Further Query Contact: Prof. Raj Hakani

Email Id: ap\_raj@gtu.edu.in, gturoboticsclub@gtu.edu.in, gturobocon@gmail.com

Registrar

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## ABU Robocon:

ABU Robocon is an Asia-Pacific international robotics contest conducted by the Asia-Pacific Broadcasting Union. Every year, one of the participating countries hosts the event and provides a gameplay theme consisting of multiple tasks that robots have to finish within a time limit. The competition helps students learn problem-solving and practical aspects of engineering through a team-orientated process.

## Mitsubishi Electric Cup:

Mitsubishi Electric Cup is an opportunity where students may actively take part and showcase their creative skills on **Manufacturing, Factory Automation, Image Processing, IoT, Advance Process Control, Innovative Equipment for Some Cause, Qualitative and Quantitative Production etc.**

This Competition aims to **improve college students' engineering application capability, arouse their interest in learning technology, build up innovation capacity and cooperation spirit**, as well as improve their self-management ability and communication skills. It is also intended to embody the "learning for practice" ideology, review students' actual manufacturing and commissioning abilities, and meanwhile enhance exchange and cooperation between university and enterprise. This Competition provides a challenging platform for the students to Collaborate, Innovate, and Excel in the field of Automation which ultimately contributes to the National Mission of Skill Development.

## E-Yantra:

E-Yantra Robotics Competition (eYRC) is a unique annual competition for undergraduate students in Engineering/ Science/ Polytechnic colleges. This competition has evolved over the years to include a greater number of teams by introducing different tracks. Currently, this year's edition of eYRC introduces three Tracks. This completion is hosted by IIT Bombay. Each Track may contain one or more Themes – problem statements abstracted into a game rulebook. Details will be disclosed after the selection test.

## Hack-A-Thon:

Hack-A-Thon is an event where students having various skills in programming, web development, hardware development, and graphic designers, work coherently in a team whose ultimate goal is to solve predefined problems. The term Hack-A-Thon is characterized by its innovativeness and creativity upon which a problem is tackled.

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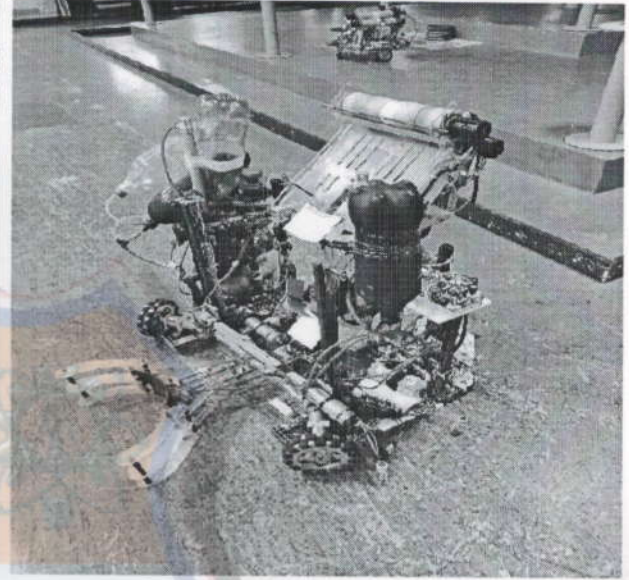
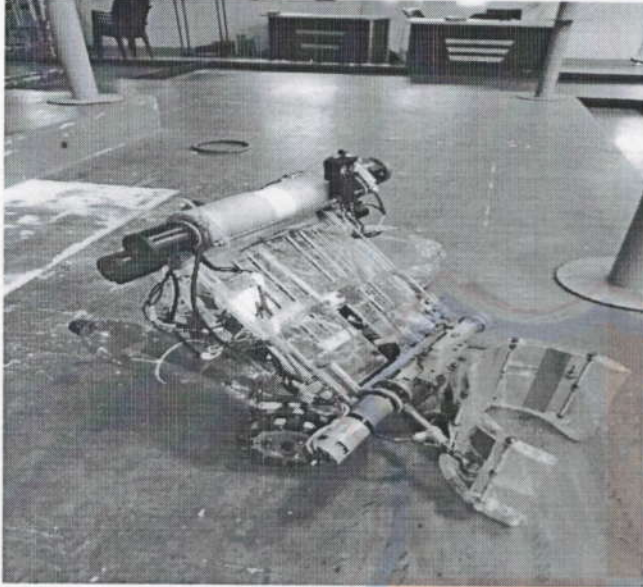
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### ROBOTS:



Double roller throwing mechanism and claw type picking mechanisms robots for in DD Robocon 2023 and ABU Robocon 2023

### TEAM PHOTOS:



We achieved 1<sup>st</sup> Rank (National Champions) and Prof. Balakrishnan Memorial Award in DD National Robocon 2023

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We achieved 6<sup>th</sup> Rank and SMC Corporation Award in ABU Robocon 2023, Cambodia.



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e-mail : info@gtu.ac.in URL : www.gtu.ac.in



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### Journey of GTU Robotics Club

#### Robocon'2023

- We (Team India) achieved 6th Rank and SMC Corporation award in ABU Robocon 2023, Cambodia
- 1st Rank (National Champions) and Prof. Balakrishnan Memorial Award in DD National Robocon 2023

#### Robocon'2022

- Received Vishvesaraya Award for Best Design from Addverb Technologies at DD Robocon 2022
- Secured 10<sup>th</sup> Rank in the DD National Robocon 2022 hosted by IIT Delhi at Thyagraj Stadium, New Delhi

#### Robocon'2021

- Team B - 9<sup>th</sup> Rank in International ABU Robocon, Jimo China.
- Team B - 1<sup>st</sup> Runner up among 23 teams in DD National Robocon
- Team A - 2<sup>nd</sup> Runner up among 23 teams in DD National Robocon

#### Robocon'2020

- 1<sup>st</sup> Runner up amongst 77 teams in DD National Robocon Sponsors Special Award by Toyota Motors in International ABU Robocon Suva Fiji.
- 14<sup>th</sup> appreciation (17<sup>th</sup> rank) in Mitsubishi Electric Cup

#### Robocon'2019

- 2<sup>nd</sup> Runner up among 87 teams in DD National Robocon
- 10<sup>th</sup> appreciation (13<sup>th</sup> rank) in Mitsubishi Electric Cup

#### Robocon'2018

- Secured 32<sup>nd</sup> AIR among 107 teams in DD National Robocon
- 1<sup>st</sup> Appreciation (4<sup>th</sup> Rank) in Mitsubishi electric cup, AICRA STEM Award for best Robotics Lab setup in India

#### Robocon'2017

- Secured 27<sup>th</sup> AIR among 118 teams in DD National Robocon

#### Robocon'2016

- 1<sup>st</sup> Runner-up among 18 debut teams in DD National Robocon

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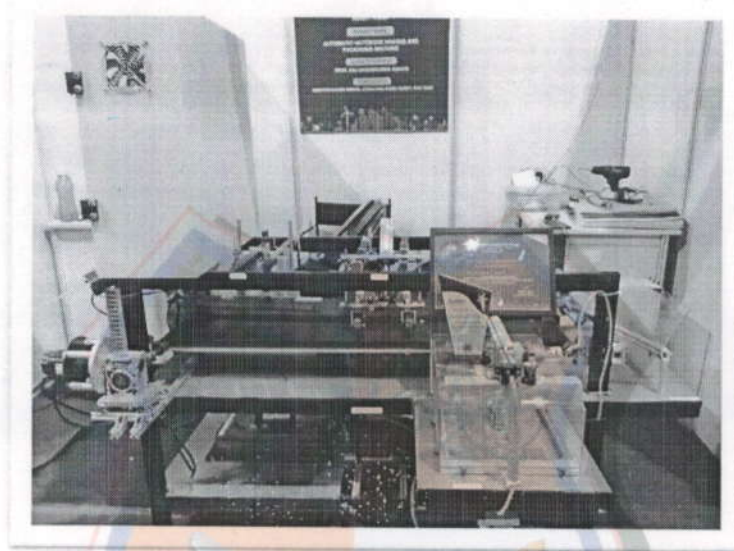
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### AUTOMATION:



Mitsubishi Electric Cup 2020

Theme: Visualizing IoT Solutions for Smart Automation

Machine: Automatic Notebook making and Packaging Machine

All India Rank



Mitsubishi Electric Cup 2019

Theme: Digital Industry through Smart Imagination

Machine: Automatic Ball Pen Making and Packing

All India Rank:10<sup>th</sup>



Mitsubishi Electric Cup 2018

Theme: Factory Automation

Machine: Automatic Transformer Winding Machine

All India Rank:4<sup>th</sup>

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### AWARDS:



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