

# CSD ROBOCON NITK

Robots Under Construction

BROCHURE  
2023

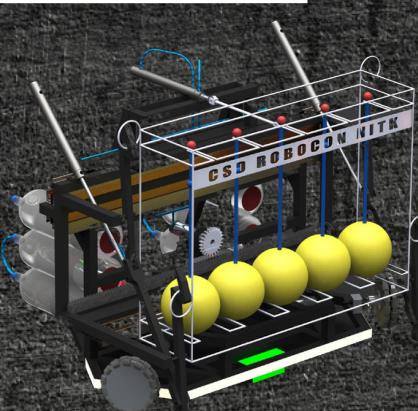
# About **CSD Robocon NITK**



CSD Robocon NITK is one of the foremost robotics teams at NITK. Since 2018, we have been participating in the ABU Robocon (Asia Pacific Broadcasting Union Robotics Contest), which is touted as the ultimate robotics challenge for undergraduates.

We build robots that aim for incredible precision, reliability and speed or, in other words, industrial performance. Sadly, the pandemic disrupted the 2022 event for us, but we weren't deterred by it. We strived to simulate the robots on ROS, honing our skills for the next event. This year, we aim to be back with a bang!

# Our Experience at ABU Robocon



**Ném Còn (Throwing Shuttlecock)**

**2018**

Vietnam



The year we decided to gather a team and take part in ABU Robocon. From uniting all robotics enthusiasts in 2017 to building robots and simulations for the year's competition, we got a hold on the concepts and thought processes required for the upcoming years.

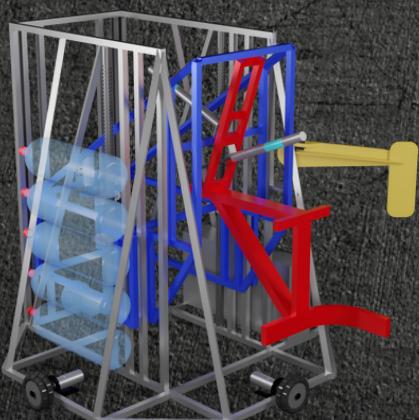
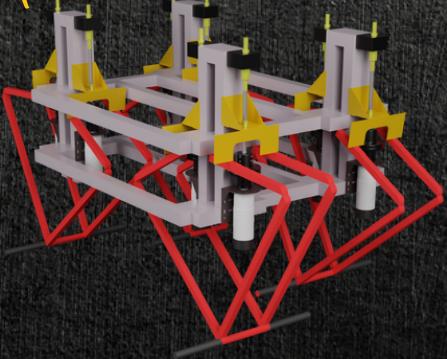
**2019**

**Sharing the Knowledge**

Mongolia



**"Our Most Sophisticated Bot"**

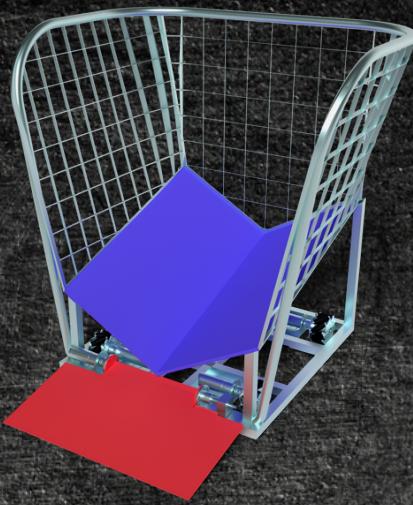


We built NITK's first walking robot - a quadruped which tackled planes, slopes and steps alike.

**2020**

### Robo Rugby 7s

Fiji



We adopted pneumatics to actuate mechanisms. It provided great impulse for significantly less weight.



**2021**

### Throwing Arrows Into Pots

China



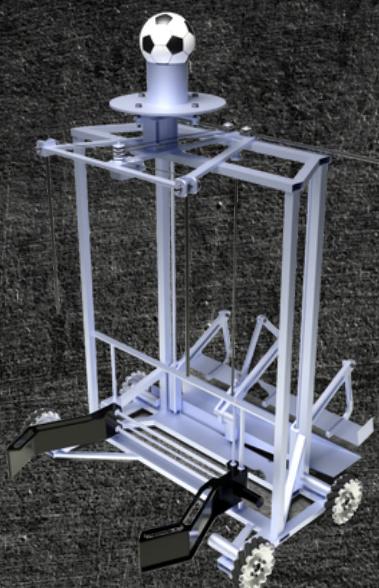
We strategically designed one bot to shoot arrows and the other bot to deflect incoming arrows and rotate the bins.



Lagori

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2022



We designed a robot with a Cartesian manipulator to pick up and pile discs accurately. The other one shot balls to break the Lagori.



2023

### Casing Flowers Over Angkor Wat

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Cambodia

We have brainstormed multiple mechanism designs for the coming year's competition. Currently, we are prototyping them with the materials we have, innovative ideas and intricate advice from our alumni.

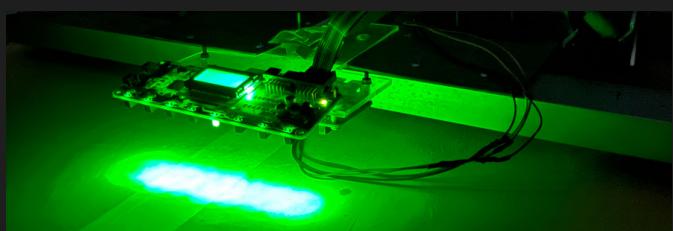
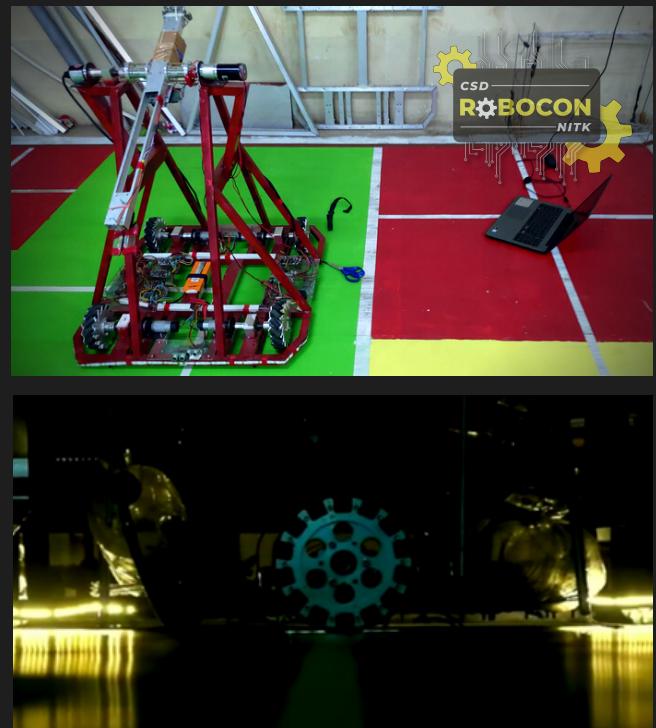
# The Robocon Room



— The Robocon Room, L016, Main Building, NITK —

We boast of our very own 'Robocon Lab' in the Main Building of NITK.

As a team, we strive to work endlessly, and every year we recreate the arena in our lab itself!



# CRN GALLERY

# Expenditure and Funding Details

Registration	Rs. 2,000
Arena Building	Rs. 44,000
Prototyping	Rs. 46,000
<b>Fabrication</b>	
Elephant Bot	Rs. 1,20,000
Rabbit Bot	Rs. 90,000
Equipments (Rings)	Rs. 3,000
Transportation	Rs. 75,000
Travel	Rs. 1,50,000
Accomodation	Rs. 75,000
Miscellaneous	Rs. 20,000
<b>TOTAL</b>	<b>Rs. 6,25,000</b>

## FUND US HERE!

### Account Details

NITK/KREC ENDOWMENT FUND

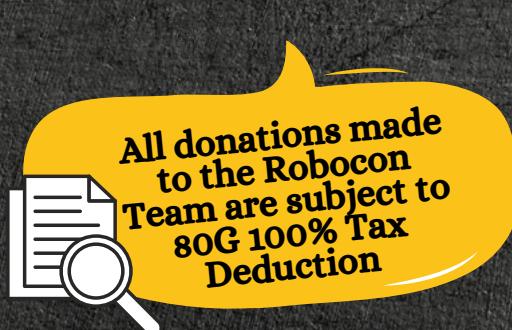
A/C No. :37481178720

(02273) - SURATHKAL

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MANGALORE 575025

Tel: 824-2449361 Fax: 2449361

IFSC CODE: SBIN0002273



Donors residing outside India can also transfer donation amount using 'SWIFT' code of SBI, Mangalore SBININBB146 or through alternate means such as Internet Banking Facility.

# Sponsorship Tiers



## Bronze

₹ 20,000

- Shoutout on social media platforms
- Sticker on one robot bearing the sponsors' logo
- Mention on the CRN Website



## Silver

₹ 50,000

- All previous tier perks
- Bi-monthly shoutout on social media platforms
- Stickers on both robots bearing the sponsors' logo
- Sponsors' logo on T-Shirts and other merchandise



## Gold

₹ 1.1 Lakh

- All previous tier perks
- Monthly shoutouts on social media platforms
- 3D printed part on one robot with an embedded sponsors' logo
- Company banners during our events
- Promotion of products or services given by the sponsor during our events



## Platinum

₹ 2 Lakh

- All previous tier perks
- Title sponsor
- Naming rights for one robot
- 3D printed part on both robots with an embedded sponsors' logo
- Company banner during the national competition
- One additional year of Silver Tier benefits
- For custom benefits, contact us

# CSD ROBOCON NITK

## TEAM 2022- 2023



### Core Members



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**CSD, NITK Surathkal**

**Dr. Pruthviraj Umesh**  
**Associate Faculty**  
**CSD, NITK Surathkal**

### Faculty Advisors

# Executive Members



**ANANDITA TIWARI**  
MECH SUBSYSTEM



**ARYAN RAWATE**  
MECH SUBSYSTEM



**DEV GOTI**  
EC SUBSYSTEM



**DHIREN BHANDARY**  
MECH SUBSYSTEM



**HAFIZ YUNUS K**  
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**HARISH B**  
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**JOEL JOJO**  
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**MATCHA NITIN**  
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**POOJA M**  
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**PRAKHAR GOEL**  
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**PRANAV M K**  
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**SAI ASWIN**  
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**SHIVAM TEWARI**  
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**SHRIRAMU A R**  
MECH SUBSYSTEM



**SRINIVASA R**  
EC SUBSYSTEM



**TAHSIN KHAN**  
MECH SUBSYSTEM