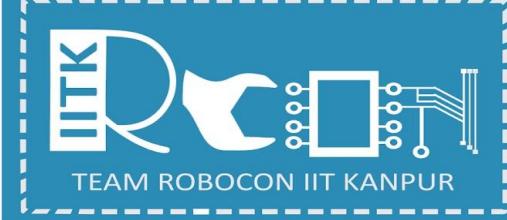
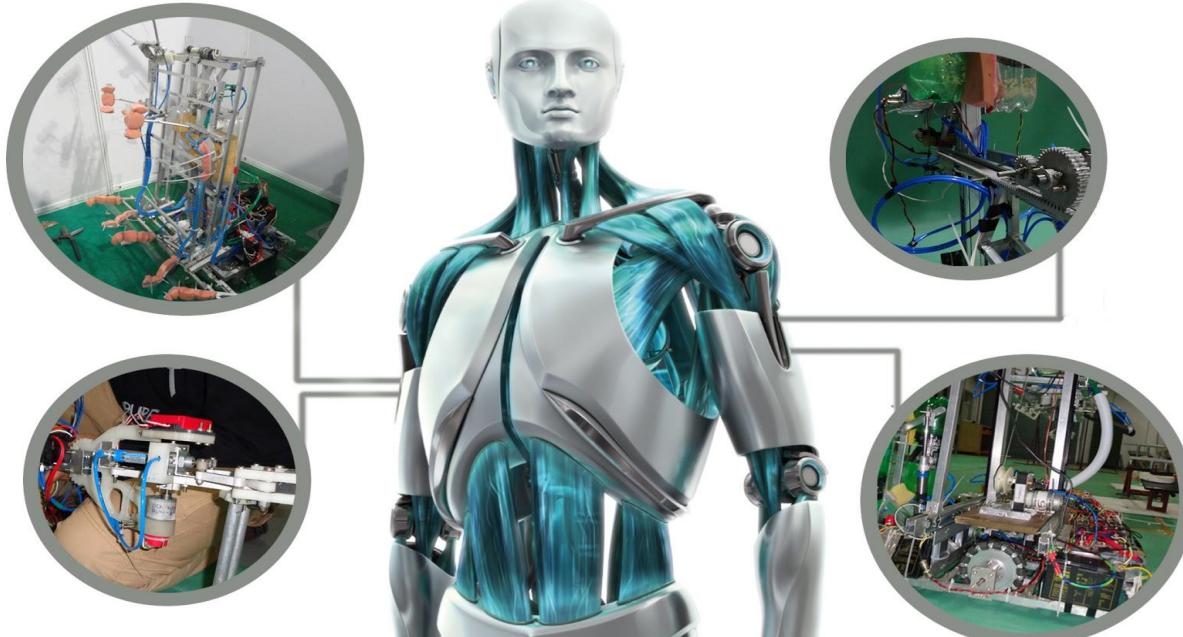


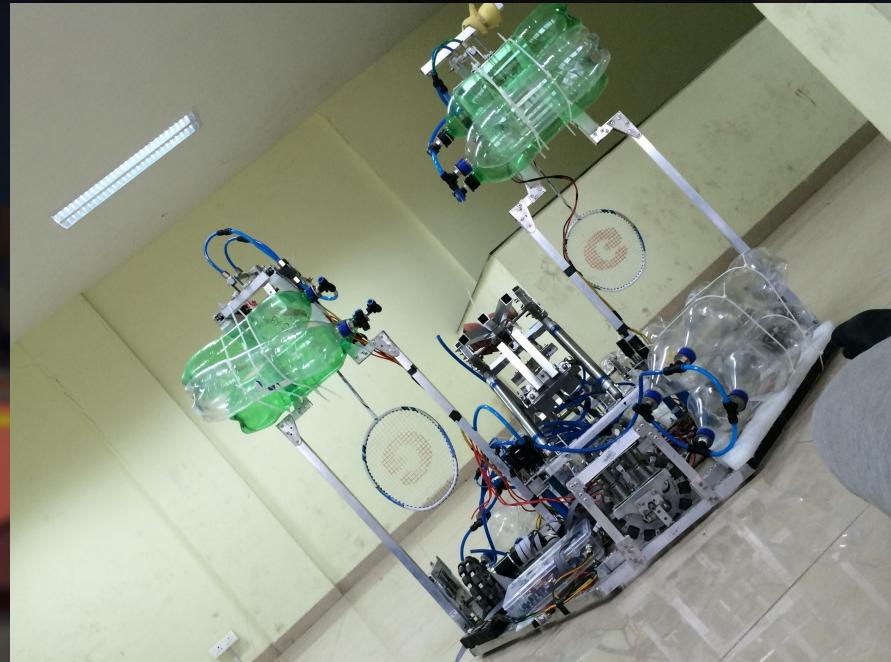
ROBOCON

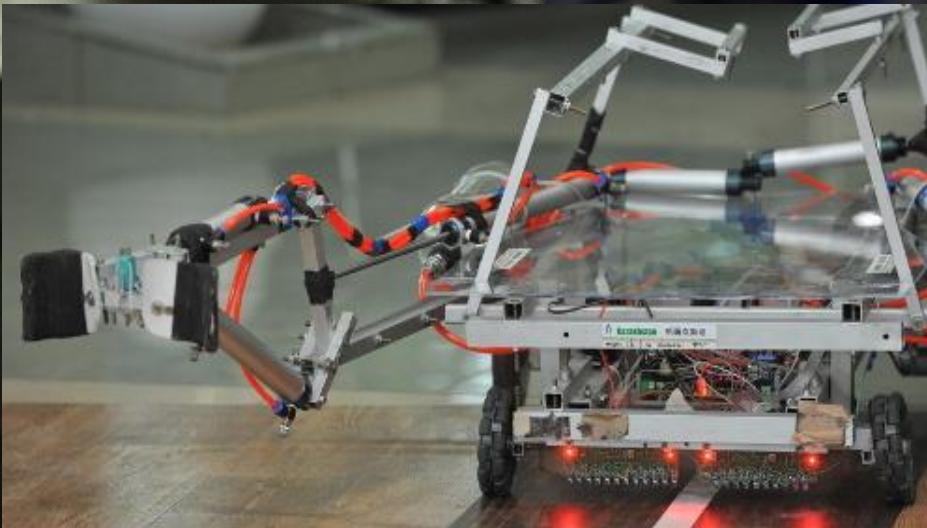
IIT Kanpur



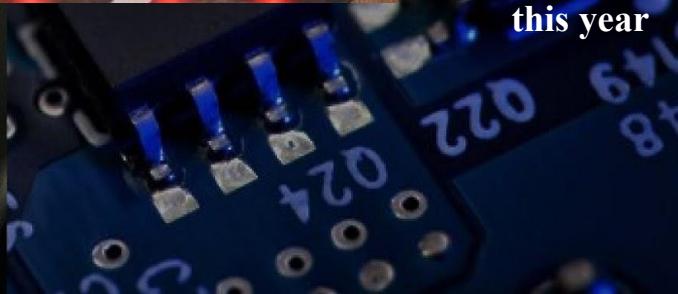
About Robocon

- Robocon (Robotics Contest) is an international competition organised by Asia Pacific Broadcasting Union (ABU) and its member countries including Doordarshan (Prasarbharati) of India
- Robocon aims to offer young engineers a platform to innovate and excel in creative thinking
- To build the robots, contestants who are restricted to be undergraduate students, must possess rich knowledge in programming, mechanical design and electronic circuit design



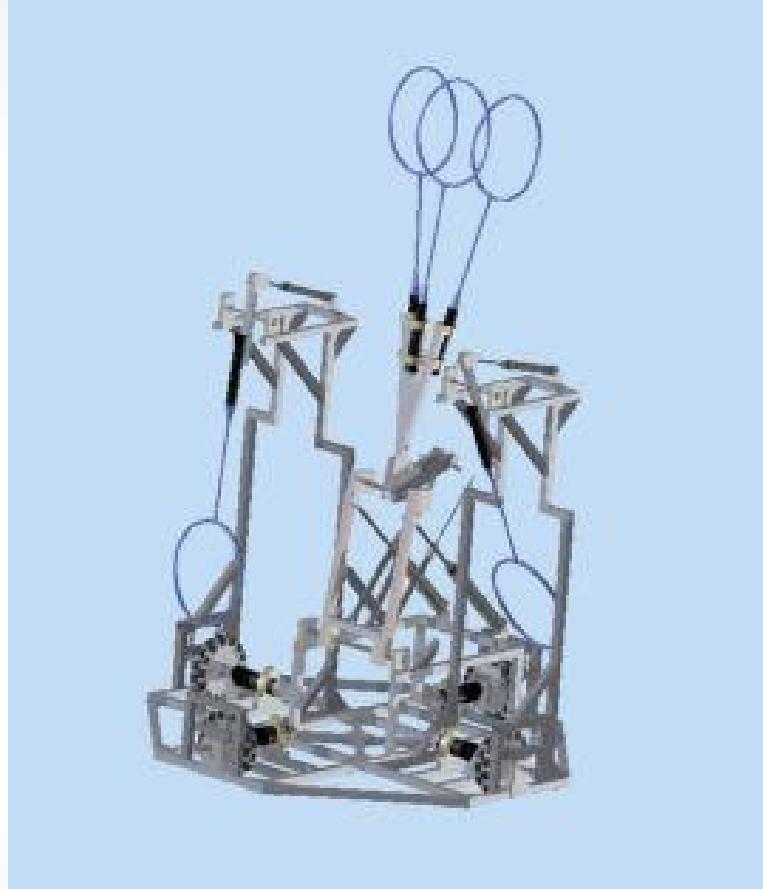


- Since 2002, fourteen contests have been organised annually. Japan, Thailand, Korea, China, Malaysia, Vietnam, Egypt, Indonesia and India have hosted this prestigious contest
- Doordarshan organises Robocon India Contest and IIT Kanpur was the pioneer to host Robocon 2002 in India
- Robocon 2015 (Robominton) is being hosted by Indonesia. Nationals were held in Pune this year



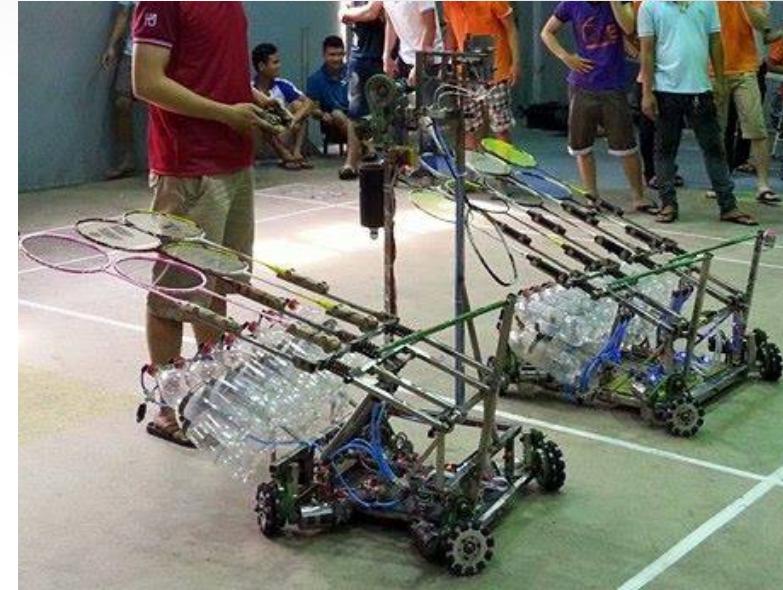
Why participate?

- Gives tremendous exposure to vast and rapidly growing field of robotics
- Provide intense platform to demonstrate capability and innovation
- Insight into new technology used by other institutes
- Builds team spirit and gives student first-hand experience of working on a big project



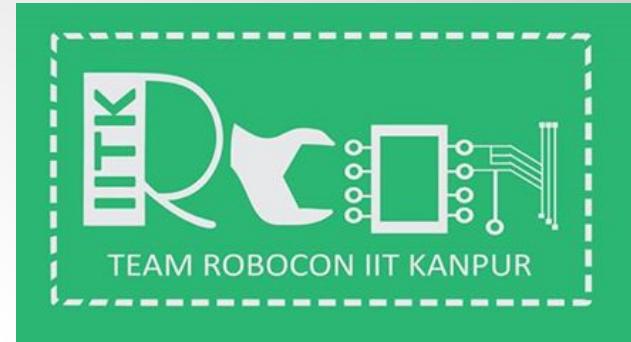
Awards and Recognition

- Winner gets a chance to represent India in International Robocon competing with best Robotics team of different countries
- Awards include Best Economical Robot Award, Best Innovative Design Award, Best Rookie Award, Best Idea Award, Best Manual Operator Award, Best Aesthetic Robot Award and many more



We have been participating in Robocon since its inception and have found it to be the best opportunity to learn and explore technology

About Us



We are a bunch of undergraduate students from varying disciplines and years of study with a common objective - to represent India in International Robocon and win it.

Each year, some of the most brilliant, hard working, and sincere people of our Institute interested in Robotics team up as Team Robocon to build robots to participate in this competition.

We apply learnt theory and acquire new concepts in the process. Based in the 4i-laboratory (Innovation, Integration, Incubation and Implementation), all of us have gained an experience of working with both conventional and advanced machines.

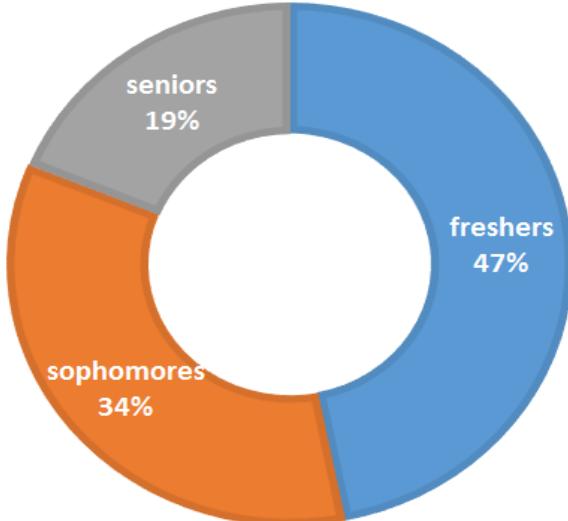
Team Robocon focuses on all departments of Robotics - Programming, Mechanical design and Electronics and Control system.

Student Participation



TEAM ROBOCON

■ freshers ■ sophomores ■ seniors

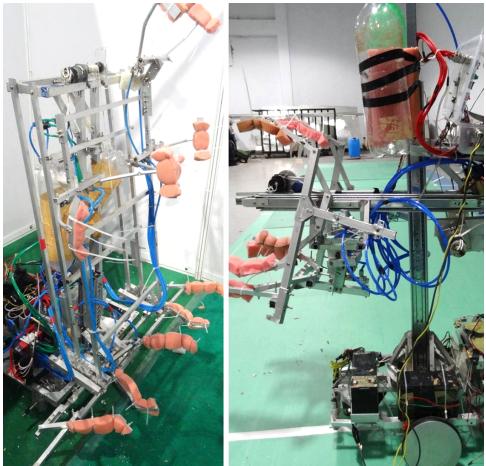


Student Participation

- Overwhelming participation by students (350 out of 800 freshers applied)
- Rigorous training and grooming of team members
- Organised Image Processing workshop in campus



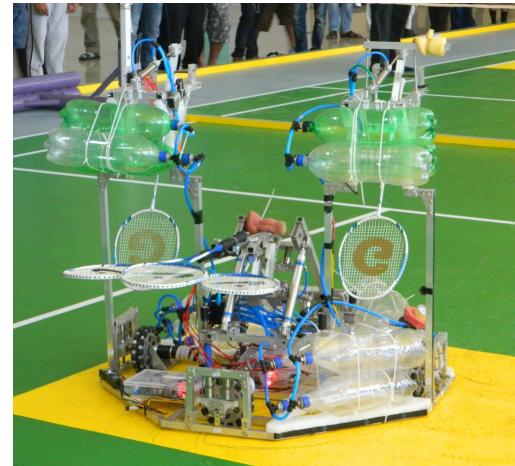
Recent Achievements



Robocon 2014
Secured 6th rank in
the competition



Robocon 2014
Won the “**Best Innovative Design**”
Award



Robocon 2015
Secured 11th rank in
the competition



Exhibitions

रोबोट के बैडमिंटन शॉटों पर खूब बजीं तालियां



आईआईटी के टेक्निकल फेरस्ट टेक्नकृति में बैडमिंटन प्लेइंग रोबोट का डेमो देते छात्र।

- ◆ टेक्निकल फेरस्ट 'टेक्नकृति 15' का हुआ समापन
- ◆ आईआईटीयस ने बनाया 'बैडमिंटन प्लेइंग रोबोट'

गढ़। पांच रैकेट से लैस गह रोबोट बैडमिंटन आईआईटी रोबोकॉम की टीम ने तैयार किया है। बीटेक प्रयोग, द्वितीय व तृतीय वर्ष के 30 छात्रों की टीम चार महीने की रिसर्च के बाद इसे तैयार किया था। टेक्नकृति को तकनीकी



Robocon'15 Robominton (badminton playing robots) at SnT Day Presentation in IITK

Robocon Presentation at Techkriti'15

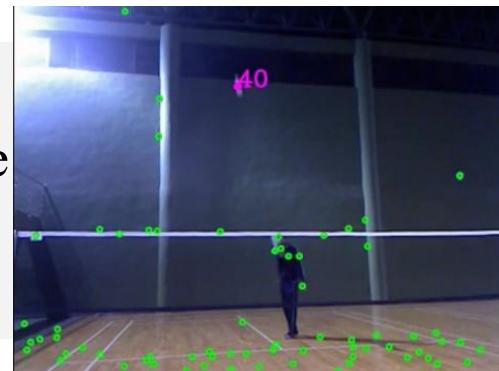
Innovations in Technology

Received “**Best Innovation Design Award**” in the year 2014

Implemented “**Bionic Arm**” mechanism for hitting shuttle to attain full court range



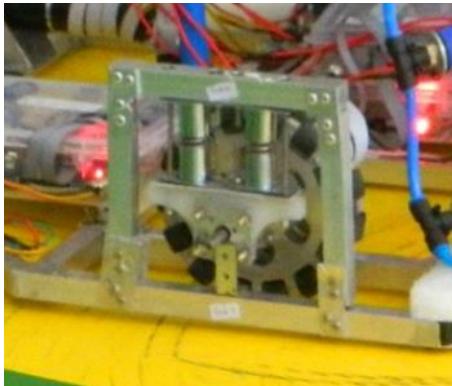
Tracked trajectory of incoming shuttle using “**Stereo camera**”



Hacked “Sony PS3” wireless controllers for controlling our robots over bluetooth



Using state of the art components like “**Maxon Motors**” for higher speed and better precision



Self designed “**Shock absorbers**” for providing smooth and jerk free actuations



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TEAM ROBOCON 2015



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Thank you