e-yantra

Engineering a better tomorrow

ROBOTICS COMPETITION
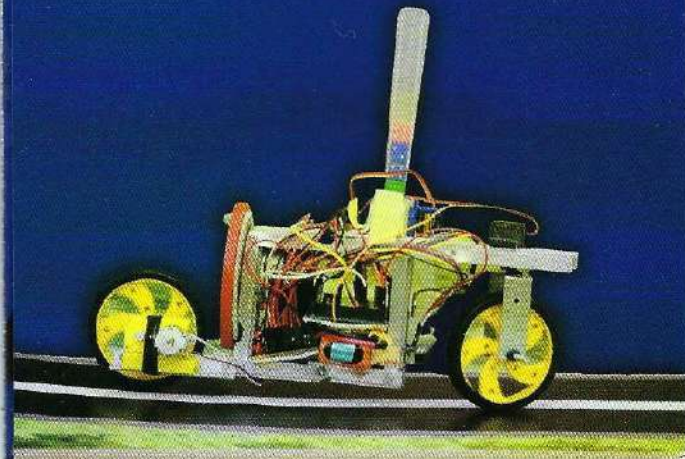
INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

About Our
Competition

e-Yantra Robotics Competition (eYRC) is an annual international robotics competition organised by the Indian Institute of Technology, Bombay.

The competition is intended to provide engineering students with hands-on experience in embedded systems and robotics. It trains in complex engineering skills ONLINE using Project-Based Learning (PBL).

Teams of two to four students work on pre-defined problem statements for 6 months remotely before competing in the finals at IIT Bombay. The competition aims to promote 21st-century skills such as creativity, innovation and problem-solving among students and provides a platform for them to showcase their talents.

Why we are
Unique!

- A truly inclusive competition accommodating teams with varied levels of skills from beginners to advanced.

- Abstracted gamified problem statements (Themes) range over a variety of skills: Robot Operating System (ROS), Machine Learning, Image Processing, 3D Designing, Embedded Systems, FPGA and much more.

- Conducted completely online spanning 6 months in a "LEARN while COMPETING" mode.

- An exceptional hands-on learning experience to complement your engineering curriculum.

- Work in a team & learn "Collaboration" - a crucial 21st-Century Skill, in addition to creativity, innovation and problem-solving skills.

- Compete with International students.

Learn Futuristic
Technology Stacks

Prizes & Awards
include:

Cash Prizes
of upto 10 Lakhs

8-Week Internship
all paid, at IIT Bombay

Job Opportunities
experience that looks terrific on a CV!

Certificates
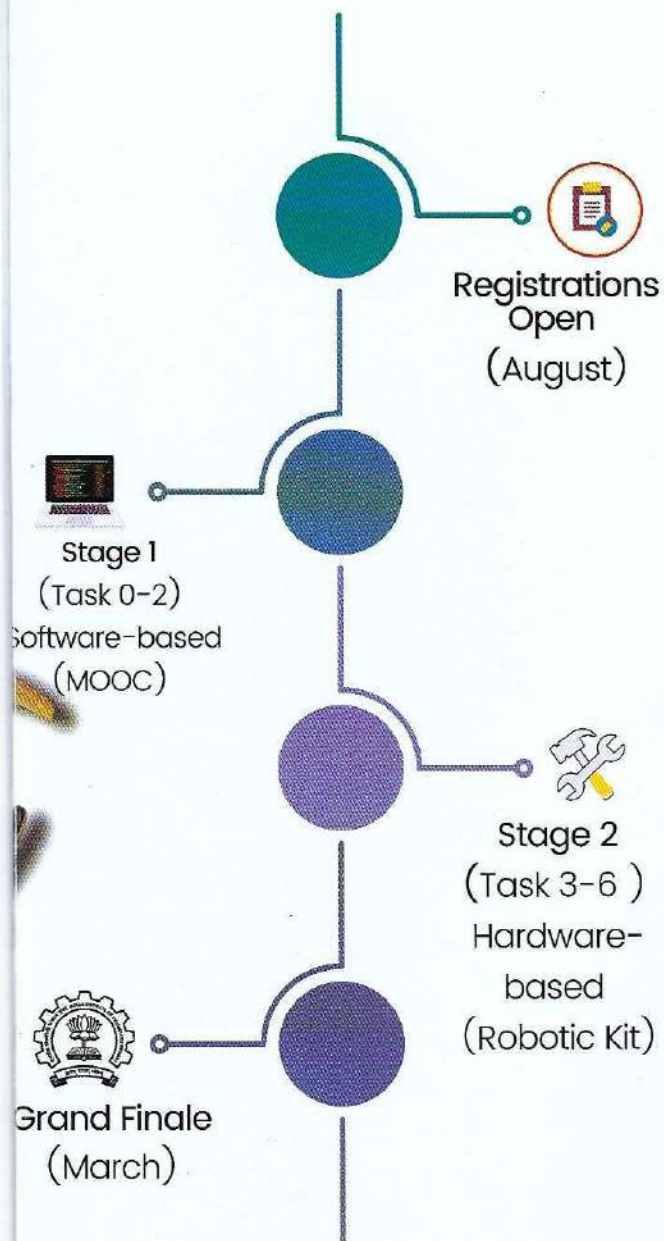letters & certificates of appreciation & merit

From the desk of
Prof. Kavi Arya

"e-Yantra Robotics Competition trains participants in exciting technology stacks that help them ace placements, & inspires them to higher degrees and even do engineering startups."

Timeline of
eYRC Competition

Registrations Open
(August)

Stage 1
(Task 0-2)
Software-based
(MOOC)

Stage 2
(Task 3-6)
Hardware-based
(Robotic Kit)

Grand Finale
(March)

About

e-Yantra

e-Yantra is a robotics outreach program funded by the Ministry of Education (MoE) and hosted at IIT Bombay. The goal is to harness the talent of young engineers to solve problems using technology across a variety of domains.

e-Yantra trains in complex engineering skills ONLINE using Project-Based Learning (PBL).

Over 200,000+ young engineers have been trained since 2012. Over 500+ e-Yantra labs have been established as points of contact. The outcome is a change in culture in colleges towards innovation, high-quality placements and a motivation in students towards postgraduate degrees. The Lab boosts a startup culture at a college.

Get in Touch

☎ +91 2225764986

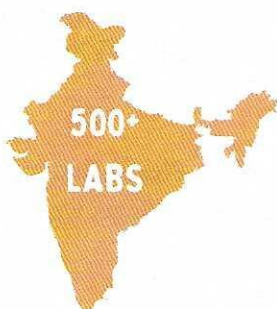📍 KRESIT Bldg., IIT Bombay, Powai

✉ helpdesk@e-yantra.org

🌐 https://portal.e-yantra.org

e-Yantra Initiatives

We complement the existing higher education system Project Based Learning – i.e. "Learn by Doing".

e-Yantra Lab Setup Initiative (eLSI)

The e-Yantra Lab Setup Initiative (eLSI) trains teachers in theory and programming through workshops and online training, and assists colleges in establishing robotics labs.

500+ LABS

Benefits of e-Yantra Lab

- Training of teachers and students through hands-on MOOCs
- FREE Robotic Kit
- Special pricing category for all value added courses/events
- Access to Resource portal
- Opportunities to take yearly subscription for free MOOCs*

e-Yantra Innovation Challenge (eYIC)

idea

Another fascinating competition

- Trains students through MOOCs.
- Solves real-world problems, builds startups.
- Engages students in thematic areas.
- Experts help articulate problems.
- Guides prototypes, teaches pitching startups.

e-Yantra Summer Internship Program (eYSIP)

e-Yantra selects top performers from competitions for 8-week internship at IIT Bombay along with our Industry Partners.

- Facilities and guidance to work on projects covering varied spectrum of tech
- Chance to experience a research environment
- Opportunity to gain confidence through expert talks and historical trips

IIT Bombay

Date: 15th, July 2025

To,

Dean/ Principal/ Director/ HOD/ Teacher/ Official,

We are happy to announce that we are launching **e-Yantra Robotics Competition (eYRC 2025-26)**, a flagship competition from **e-Yantra, IIT Bombay**.

e-Yantra is an initiative hosted in IIT Bombay (in CSE Dept.) to spread a wide variety of technical skills across colleges world-wide. Through our initiative, Robotics Competition, (portal.e-yantra.org), we complement the existing education system with a "problem solving" culture through **Project-Based Learning (PBL)**. This competition is unique in that it is really a MOOC-style (Massive Open Online Course) competition that trains participants in complex engineering while they compete. eYRC is totally aligned with the New Education Policy (NEP 2020).

We request you to motivate your college students to register for the competition. Please find enclosed eYRC 2025-26 Poster to be displayed on the *notice board of all departments* at your college, we urge you to also share them via:

- various college/department mailing lists, official/unofficial WhatsApp groups

- official social media handles (tag us on ▮ : eyantra, ▮ : eyantra, ▮ : e-yantraiitb)

Registration:

Students participate as a team (2-4 members, i.e. a team can have 2 members, 3 members or 4 members) - from **any year, any branch but the same institute.**

Note that, as soon as they pay the registration fee, they are directly inducted into the Stage 1 of the competition and start receiving e-Yantra curated Tasks & Resources for learning relevant technologies. A team`s profile including participation of team member/s in past competitions may be used to assign Themes (gamified problem statements) to the team. *e-Yantra holds complete discretion in the Theme assignment processes.*

The winners of this competition are rewarded with exciting cash prizes and are eligible to interview for a summer internship through the e-Yantra Summer Internship Program (eYSIP).

Prof. Kavi Arya
Ex-Principal Investigator, e-Yantra
Professor, CSE Dept., IIT Bombay

Scan the code to know more about the registration.
eligibility and Terms and Conditions of the competition.

e-Yantra Robotics Competition (eYRC)

Use this referral code for 10% discount for registration:

25PSTRMADT9DLT2