



eYantra Lab in Jaya Engineering College Center of Excellence in Embedded Systems and Robotics Activities in 2023 - 24: Status as on May 10, 2024



e-Yantra is a robotics outreach program funded by the Govt. of India Ministry of Education and hosted at IIT Bombay.



**eYantra Lab in Jaya Engineering College
Center of Excellence in Embedded Systems and Robotics**



**Inauguration of the eYantra Lab @ JEC by
Prof. Dr. A. Kanagaraj, Chairman of Jaya Group of Institutions
(February 2023)**



**eYantra Lab: 4 faculty members and 11 students got trained
in 50 day MOOC Training by IIT Bombay
and received Merit Certificates: July 2023**



| S. No. | Student Name | Department | Year | Gender |
|-----------------------------|-------------------------|------------|------|--------|
| Faculty Coordinators | | | | |
| 1 | Dr.B.Geetha (Tech Lead) | CSE | | F |
| 2 | Mr. B. Muralidharan | CSE | | M |
| 3 | Mr. N. Venkatesan | CSE | | M |
| 4 | Mr. J. Saravanan | EIE | | M |
| Students | | | | |
| 1 | J.Baby Shree | CSE | III | F |
| 2 | F.Emmanuel | CSE | III | M |
| 3 | N.Haaris Ahamed | CSE | III | M |
| 4 | S.Hariharan | CSE | III | M |
| 5 | J.Kokila | CSE | III | F |
| 6 | S.Arockia Kelvin | IT | III | M |
| 7 | S.Jeeva | IT | III | M |
| 8 | D.Ranjani | IT | III | F |
| 9 | MB.Shree Kumar | IT | III | M |
| 10 | Rajalakshmi.D | ECE | III | F |
| 11 | K.Tejavarma | ECE | III | M |



Sample Certificates received by JEC Faculty Member and Student




ERTS Lab
Department of Computer Science and Engineering
Indian Institute of Technology Bombay,
Powai, Mumbai-400 076.

Date of Issue: 11-07-2023



Certificate of Merit

This certificate is awarded to **Mr. J. Saravanan**, from **Jaya Engineering College Tamil Nadu**, for his/her outstanding performance in the **50 days Online Crash Course on Embedded System and Robotics**, conducted as a part of MOOC through the **e-Yantra Resource Development Center (eYRDC)**.

The course covered following skillset:

1. ATmega2560 microcontroller
2. Register manipulation
3. Interfacing of IO devices, ADC, PWM and Interrupts
4. Embedded C programming
5. Challenge Activity based on LCD and Digital Storage Oscilloscope
6. Simulation using SimulIDE Software


Prof. Kavi Arya
Principal Investigator, e-Yantra
Professor
Department of Computer Science and Engineering
Indian Institute of Technology Bombay



e-Yantra is a project sponsored by MHRD, Government of India, under the National Mission on Education through ICT (NMEICT).
Certificate of Merit awarded to the participant for outstanding performance in the course.
Certificate of Completion awarded to the participant for completing all the tasks in the course.
Certificate of Participation awarded to the participant for partial completion of tasks in the course.


ERTS Lab
Department of Computer Science and Engineering
Indian Institute of Technology Bombay,
Powai, Mumbai-400 076.

Date of Issue: 14-07-2023



Certificate of Merit

This certificate is awarded to **F.Emmanuel**, from **Jaya Engineering College Tamil Nadu**, for his/her outstanding performance in the **50 days Online Crash Course on Embedded System and Robotics**, conducted as a part of MOOC through the **e-Yantra Resource Development Center (eYRDC)**.

The course covered following skillset:

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eYantra Lab Set-up Initiative (eLSI)



The screenshot shows a web browser window with the URL `e-yantra.org/elsi`. The page features the eYantra logo and a navigation menu with the following items: About Us, Gallery, Our Team, Publications, Careers, Products, Initiatives (with a dropdown arrow), and Contact Us. The main content area is titled "# What is e-Yantra Lab Set-up Initiative (eLSI) ?" and contains the following text:

eLSI is an initiative to establish a culture of “Project Based Learning” through an e-Yantra Lab embedded in a college. We do this by training teachers and students through various e-Yantra initiatives in technology skills and in using these skills to solve real problems using technology.

We have established robotics labs in 425+ colleges across India & Bhutan. We train a team of teachers and students from a college in Embedded Systems theory, Microcontroller programming, Software Foundation, Innovation & Entrepreneurship, etc. The teachers and students are trained to implement experiments through online MOOCs over a period of 2-3 months. At the end of the training, the participants are able to build embedded systems applications to solve practical problems.



Jaya Engineering College in eYantra Website (as one of the eYantra Lab Set-up Initiative (eLSI) Colleges as approved by IIT Bombay)



The screenshot shows the eYantra website interface. The navigation menu includes: About Us, Gallery, Our Team, Publications, Careers, Products, Initiatives, and Contact Us. A table lists various colleges and their IDs. A blue arrow points to the entry for Jaya Engineering College.

| | | |
|----|---|--------|
| 25 | Government College Of Technology, Coimbatore | 641015 |
| 26 | Government Polytechnic College, Thoothukudi | 628003 |
| 27 | J.J.College of Engineering and Technology | 620009 |
| 28 | J.K.K. Nattraja College of Engineering & Technology | 638183 |
| 29 | Jaya Engineering College | 602024 |
| 30 | Jerusalem College of Engineering | 600100 |
| 31 | K.L.N. College of Engineering | 630612 |
| 32 | K.Ramakrishnan College of Technology | 621112 |
| 33 | K.S.R. College of Engineering | 637215 |
| 34 | Kalaignar Karunanidhi institute of Technology | 641402 |
| 35 | Kalasalingam Academy of Research and Education | 626126 |
| 36 | Kamaraj College of Engineering and Technology | 625701 |
| 37 | Karpagam Institute Of Technology | 641105 |
| 38 | Karpagam Polytechnic College | 641021 |
| 39 | Karunya Institute of Technology and Sciences | 641114 |



Benefits of having eLSI lab



- Training of teachers and students through hands-on MOOCs
- One free robotic kit (We have got it)
- Special pricing category for all value added courses/events for its students and teachers - Typical 10% discount in eYRC, eYIC, etc.
- Access to e-Yantra Resource Development Center (eYRDC) portal - Resources such as Lesson plans, Tutorials, Lectures, Generic projects, etc. which can help teachers to utilize the eLSI Lab in an effective manner



Benefits of having eLSI lab (Cont'd)



- Access to other initiatives such as e-Yantra Farm Setup Initiative (eFSI) - The project develops know-how for setting up an automated agriculture project using the Internet of Things (IoT) And many other value added benefits such as technical talks, MOOCs, etc.
- Opportunities to take yearly subscription for free MOOCs
- Opportunities to avail free hardware kits every year



4 faculty members participated in the 2 day Workshop by IIT Bombay conducted at Aarupadai Veedu Institute of Technology (AVIT), Chennai and received Participation Certificates (July 2023)



Faculty members participated:

**Mr. J. Saravanan (EIE), Mr. B. Muralidharan (CSE),
Mrs. N. Thamilarasi (ECE) & Mrs.S.Sailaja (ECE)**



Inauguration of the eYantra Lab as eLSI family of colleges through online by Dr. Kavi Arya, Professor, IIT Bombay, Project Manager, eYantra Project (September 2023)



Cisco Webex Meetings Meeting Info Hide Menu Bar 01:57:27

File Edit Share View Audio & Video Participant Meeting Help

GEC Khagaria JIT_ganesh Mukati

Viewing Kavi Arya's application(s) - 71% +

elsi.e-yantra.org/elsiAdmin/diya?college=7

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CONGRATULATIONS!!

Welcome to the eYantra family of colleges
Jaya Engineering College

Dr.G.Sankaranarayanan
Principal

Dr.B. Geetha
Team Leader

Mr.B. Muralidharan
Team Member

Mr.J. Saravanan
Team Member

Mr.N. Venkatesan
Team Member

Embedded Systems & Robotics Lab
Supported by eYantra Labs Setup
Member of IIT Bombay
Part of the eYantra Labs Network
Established on 07/09/2023

Congratulations to the students, teachers and the college team for establishing the e-Yantra Lab.

Ajit Harpude

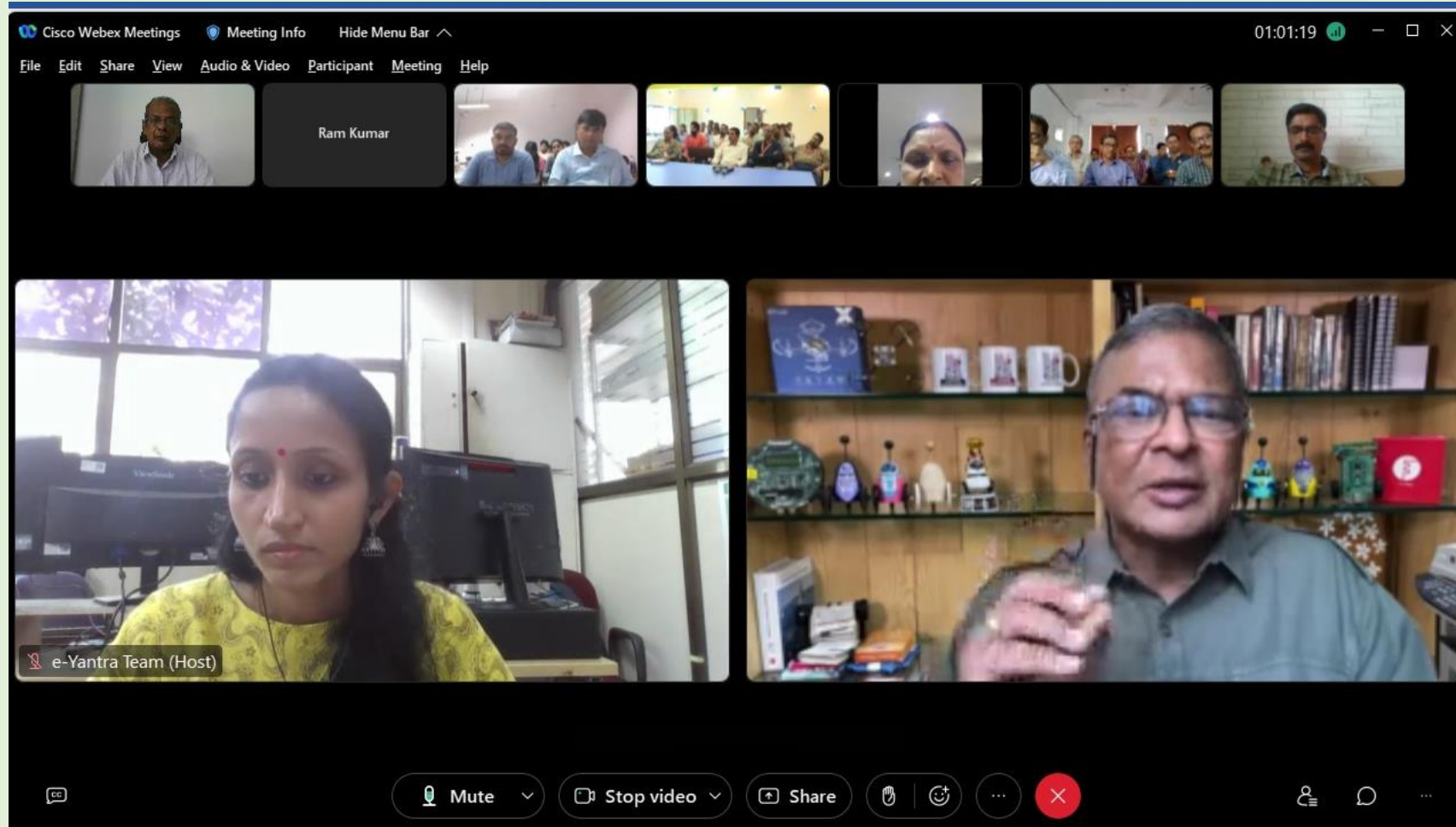
Mute Stop video Share

Participants Chat

32°C Mostly cloudy Search ENG IN 12:37 06-09-2023



Inauguration of the eYantra Lab as eLSI family of colleges through online by Dr. Kavi Arya, Professor, IIT Bombay, Project Manager, eYantra Project (September 2023)





eYantra Robotics Competition (eYRC) August 2023 to March 2024



12th YEAR **eYantra** **ROBOTICS COMPETITION** 2023-24
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10 LAKHS INR*
*B.C.APPLY

REGISTRATIONS
open till
25th AUGUST 2023

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Follow us on:



Participation by 11 teams of 44 Students in eYRC Competition



| JAYA ENGINEERING COLLEGE e-Yantra Robotics Competition (eYRC) REGISTERED TEAMS AND THE THEMES | | | |
|---|------------------------------------|------------------|------------------------------------|
| Serial No | Name | Theme | Faculty Mentor |
| Team 01 | A.Prem Neelesh B.E (ECE) TL | Astro Tinker | Mr.B.Muralidharan (CSE) |
| | B.Pooja Ksha triya B.E (ECE) | | |
| | S.Arunachalam B.E (ECE) | | |
| | D.Rajalakshmi B.E (ECE) | | |
| Team 02 | O.M.Sam Roland B.E (ECE) TL | Astro Tinker | Mr.B.Muralidharan (CSE) |
| | R.Nivetha Lakshmi B.E (EEE) | | |
| | M.Manobala B.E (EEE) | | |
| | A.Lokesh B.E (EEE) | | |
| Team 03 | K.Teja Varma B.E (ECE) TL | Astro Tinker | Mrs.Tamizharasi (ECE) |
| | S.Pavithran B.E (ECE) | | |
| | L.Karthick B.E (ECE) | | |
| | V.Desiga B.E (EIE) | | |
| Team 04 | J.Ananad B.E (ECE) TL | Luminosity Drone | Mrs.Tamizharasi (ECE) |
| | Sathish Kumar B.E (ECE) | | |
| | Nithish Kumar B.E (ECE) | | |
| | Surya Moorthy B.E (ECE) | | |
| Team 05 | M.Sumithra B.E (ECE) TL | Luminosity Drone | Mrs.Sailaja (ECE) |
| | R.Kirthika B.E (ECE) | | |
| | G.Rathi B.E (ECE) | | |
| | M.Shanmugapriya B.E (ECE) | | |
| Team 06 | J.Asha rani B.E (ECE) TL | Luminosity Drone | Mr.N.Venkatesan (CSE) |
| | S.Kanimozhi B.E (ECE) | | |
| | R.Gokila B.E (ECE) | | |
| | K.Kavith B.E (ECE) | | |



Participation by 11 teams of 44 Students in eYRC Competition



| JAYA ENGINEERING COLLEGE e-Yantra Robotics Competition (eYRC) REGISTERED TEAMS AND THE THEMES | | | |
|--|--------------------------------------|------------------|----------------------------------|
| Serial No | Name | Theme | Faculty Mentor |
| Team 07 | P.Ramya B.Tech(IT) TL | Luminosity Drone | Mr.N.Venkatesan (CSE) |
| | B.Vishalini B.Tech(IT) | | |
| | R.Nathiya B.Tech(IT) | | |
| | U.Meharin Fathima B.Tech (IT) | | |
| Team 08 | K.P.Shivani B.Tech(IT) TL | Luminosity Drone | Dr.B.Geetha (CSE) |
| | V.Swetha B.Tech (IT) | | |
| | K.S.Varsha B.Tech (IT) | | |
| | R.Priyadharshini B.Tech(IT) | | |
| Team 09 | M.Shakthi velan B.Tech(IT) TL | Luminosity Drone | Dr.B.Geetha (CSE) |
| | M.Meenakshi Sundaram B.Tech (IT) | | |
| | M.Santhosh B.Tech (IT) | | |
| | K.Kamala Arun B.Tech (IT) | | |
| Team 10 | L.K.Ashok B.E (EIE) TL | Astro Tinker | Mr.J.Saravanan (EIE) |
| | V.Sushmidhan B.E (EIE) | | |
| | B.Ram Prasath B.E (EIE) | | |
| | K.C.Kishore Amarnath B.E (EIE) | | |
| Team 11 | S.Revathi B.E EIE TL | Astro Tinker | Mr.J.Saravanan (EIE) |
| | V.Y.Akash B.E (EIE) | | |
| | M.Saravanan B.E (EIE) | | |
| | K.R.Kumar B.E (EIE) | | |