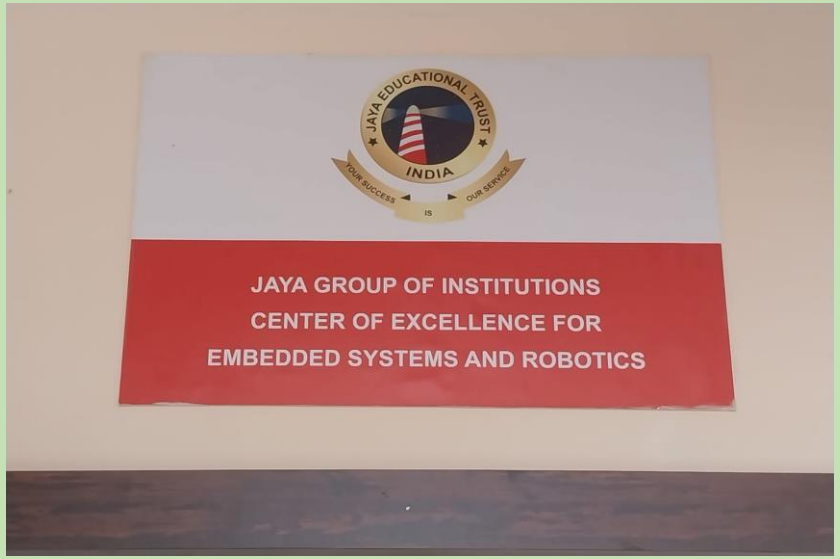
eYantra Lab in Jaya Engineering College
Center of Excellence in Embedded Systems and Robotics
Activities in 2023 – 24: Status as on May 10, 2024



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).

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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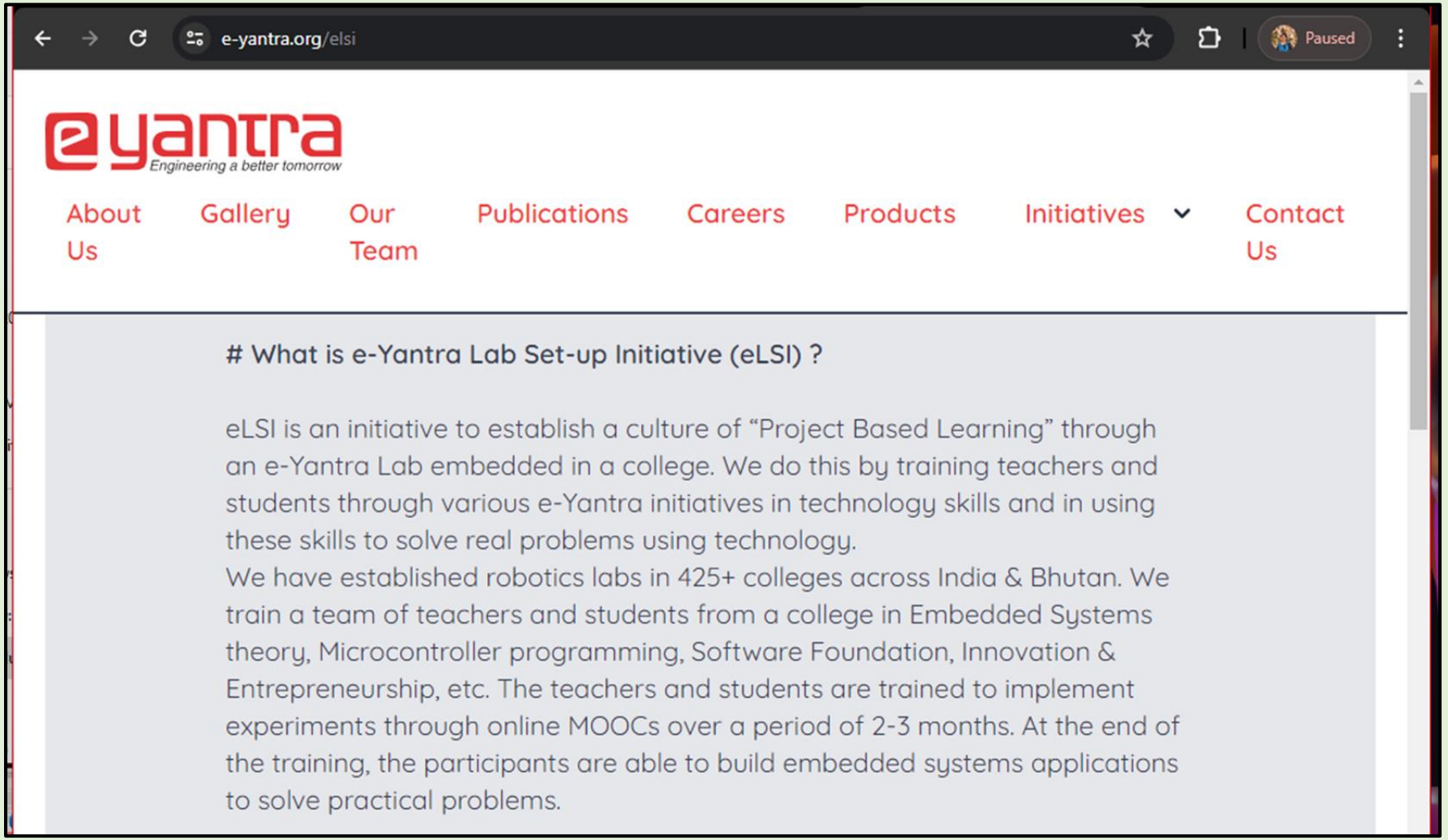
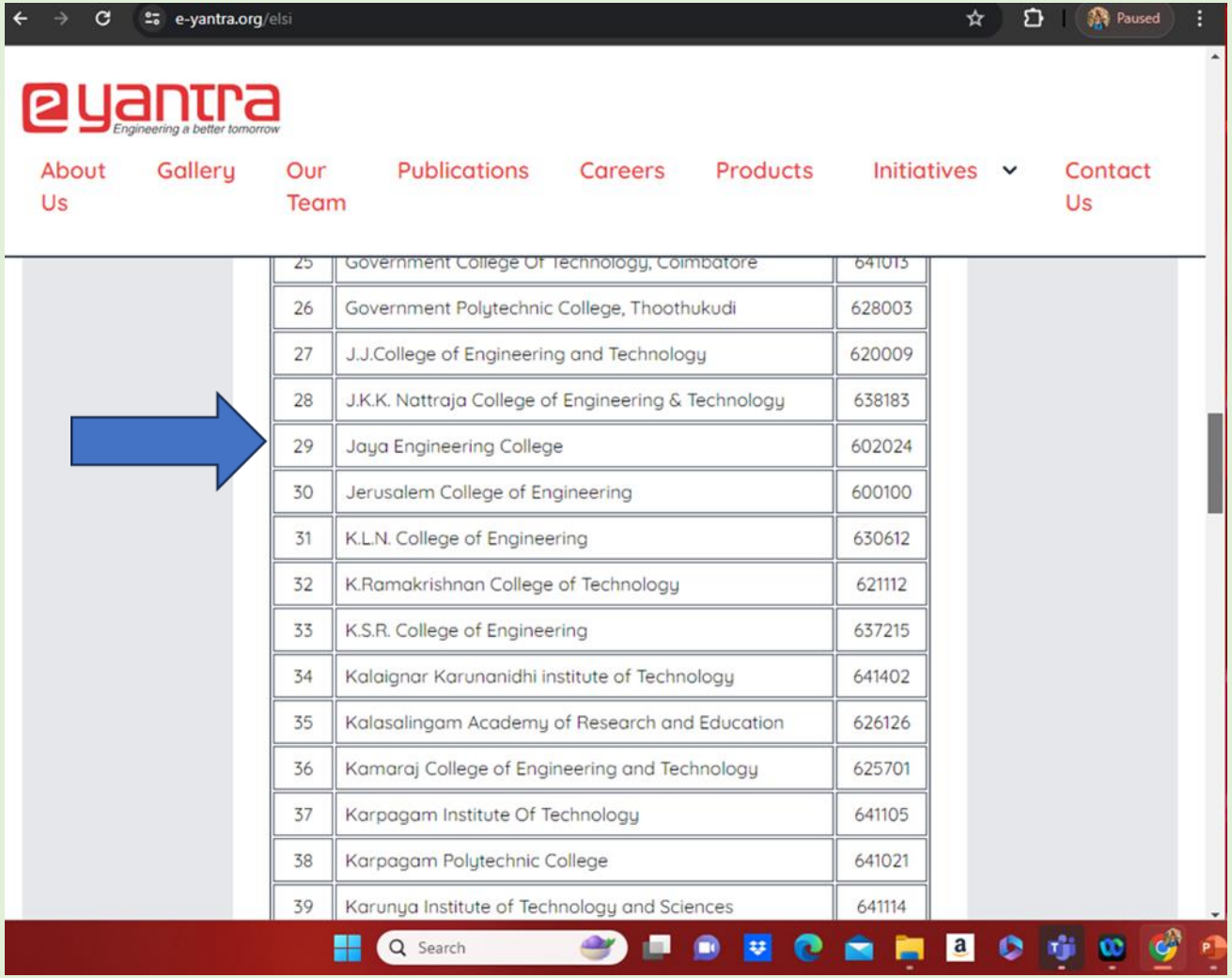
eYantra Lab Set-up Initiative (eLSI)



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



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)

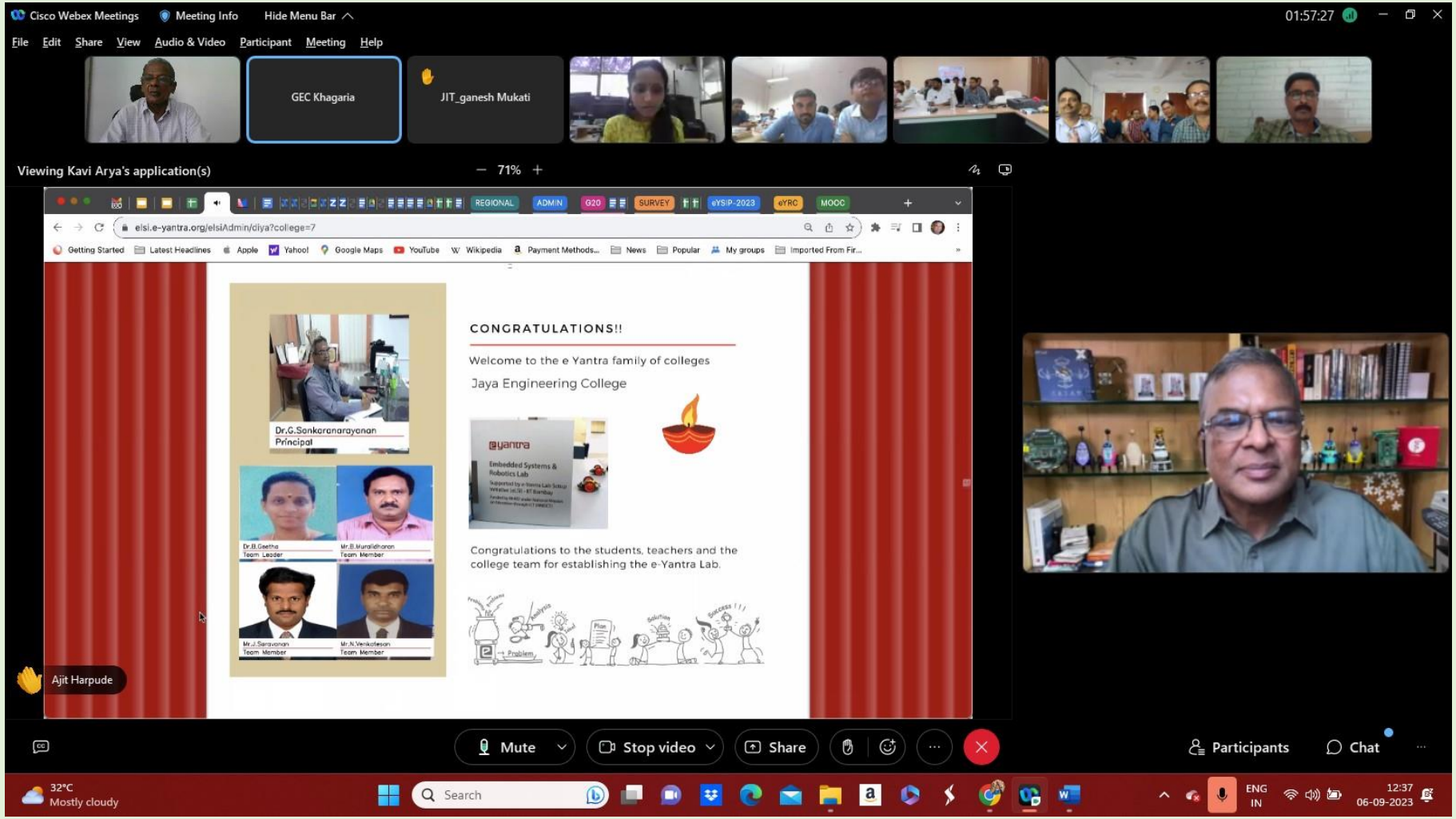
- Access to other initiatives such as e-Yantra Farm Setup Initiative (eFSI) - The project develops know-how for setting up an automated agriculture project using the Internet of Things (IoT) And many other value added benefits such as technical talks, MOOCs, etc.
- Opportunities to take yearly subscription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

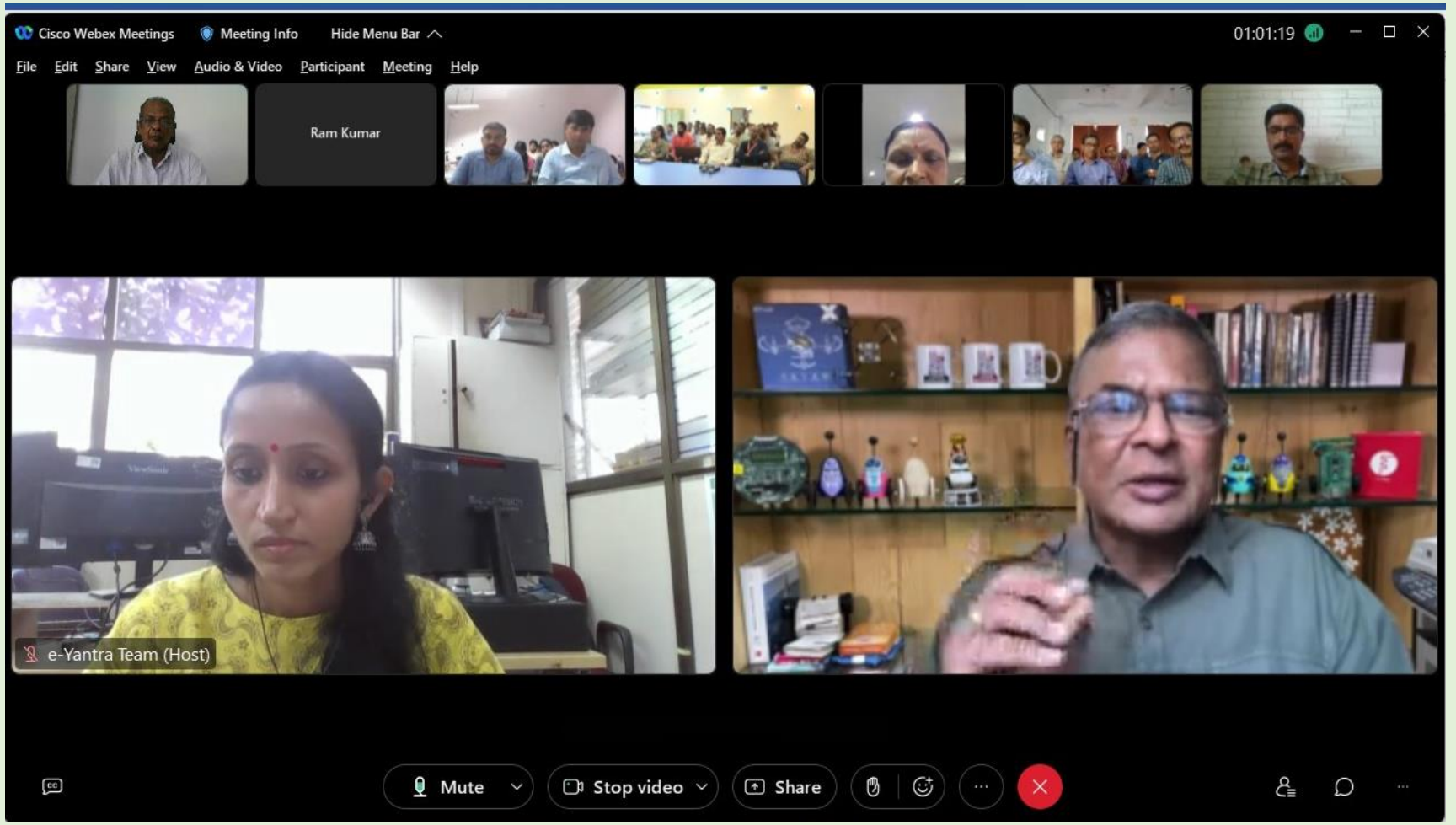
Faculty members participated:

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

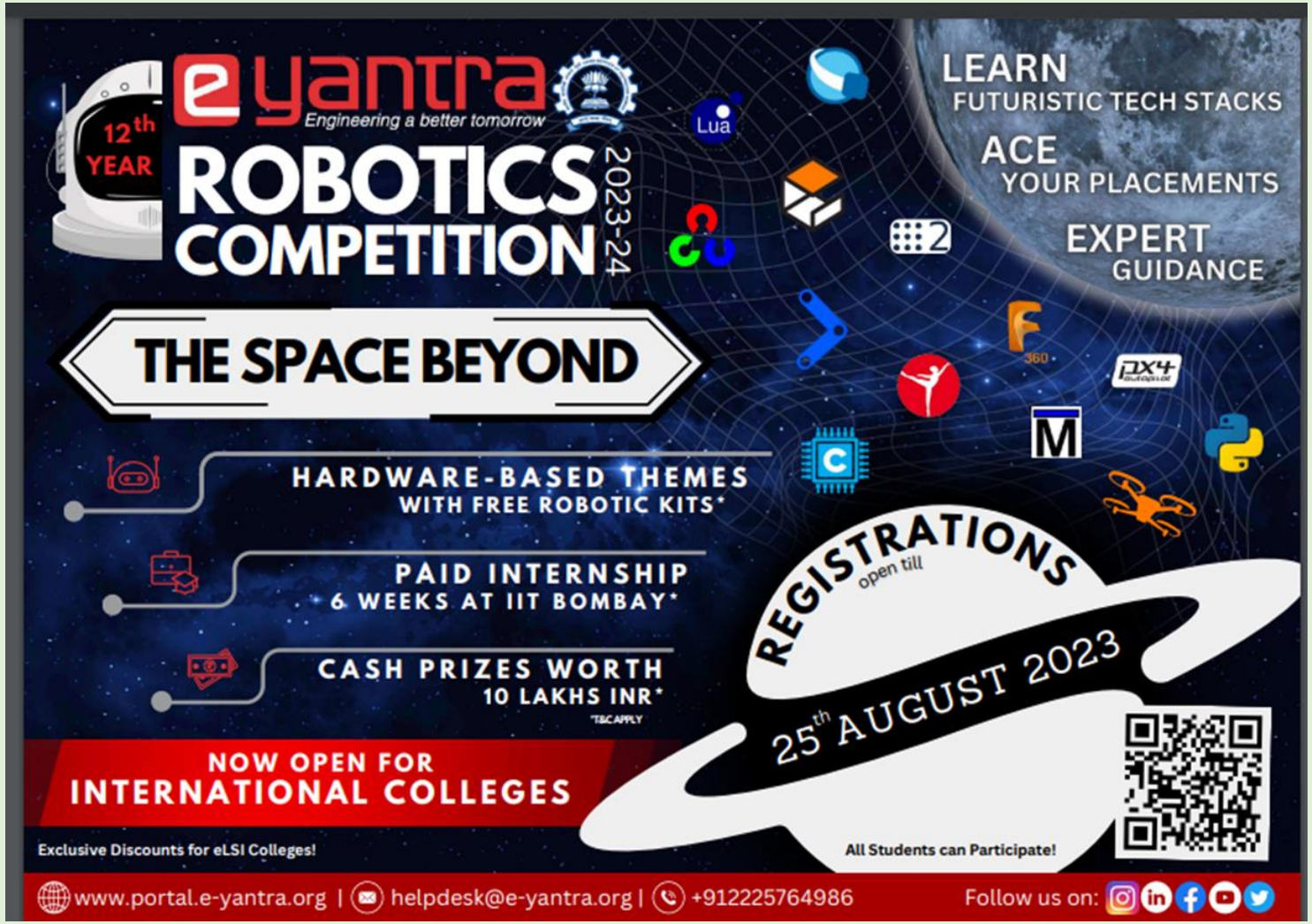
Inauguration of the eYantra Lab as eLSI family of colleges through online by Dr. Kavi Arya, Professor, IIT Bombay, Project Manager, eYantra Project (September 2023)



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



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)		