



# Robotics In Academics

Soham Academy of Human Excellence

## Promoting Innovation in Schools



## Telangana's Largest Robotics Program in Government Schools

August 2024 Edition







## 1.0 About Robotics in Academics

*Robotics in Academics* is a unique hands-on robotics training program initiated by Soham Academy of Human Excellence. It aims to bring the latest and greatest technologies to the door step of needy schools. It promotes innovation and develops a sustained scientific temperament among students.

## 2.0 Typical Program at a School

To bring the knowledge of robotics to the students of schools, we have designed a simple training program. This program will be run by our well-trained engineers and interns. The following are the sequence of steps followed at a selected school.

1. Students complete 21 activities in a day long workshop
2. Students will be provided with curriculum books
3. All the participants will be given course completion certificates
4. Robotics Club is formed in the school
5. School gets full fledged robotics innovation kits
6. Club members join our special online meetings
7. Clubs to complete seven levels of challenges during the academic year
8. The school is rewarded appropriately for completing the challenges
9. School participates in the annual robotics exhibition
10. With support from our partners, the program continues year after year

## 3.0 Innovation Challenges

After the workshop, the school will be provided an opportunity to participate in a sequential set of seven robotics challenges. Below picture shows how a school climbs up the innovation challenge ladder.

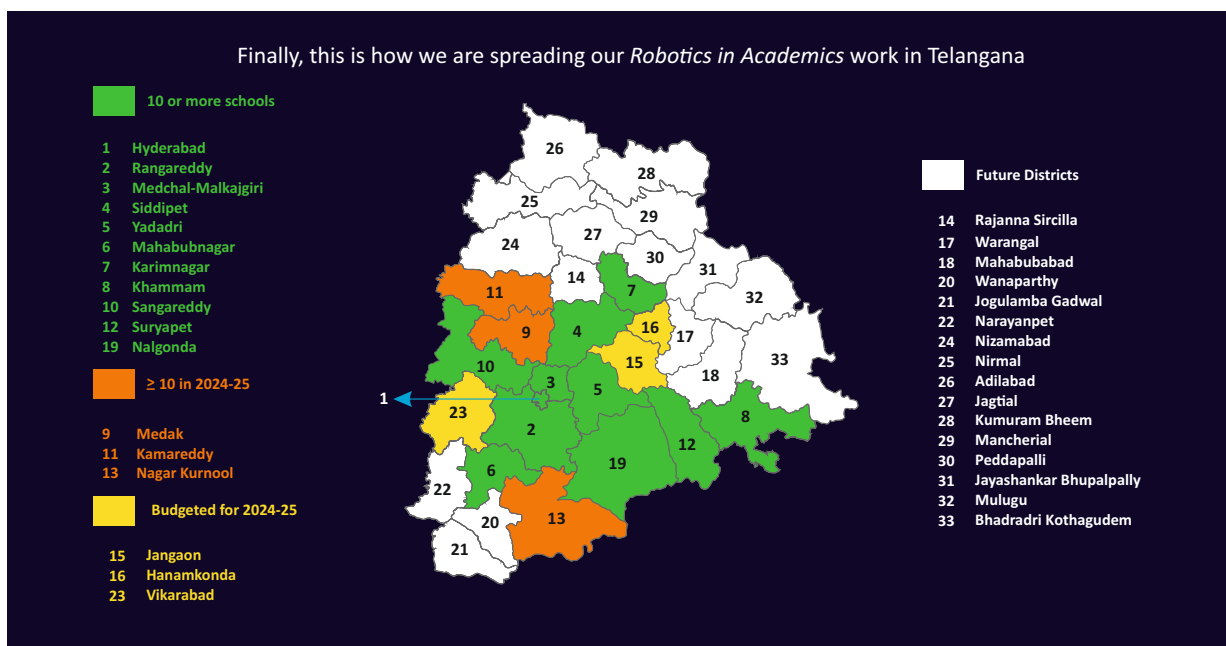
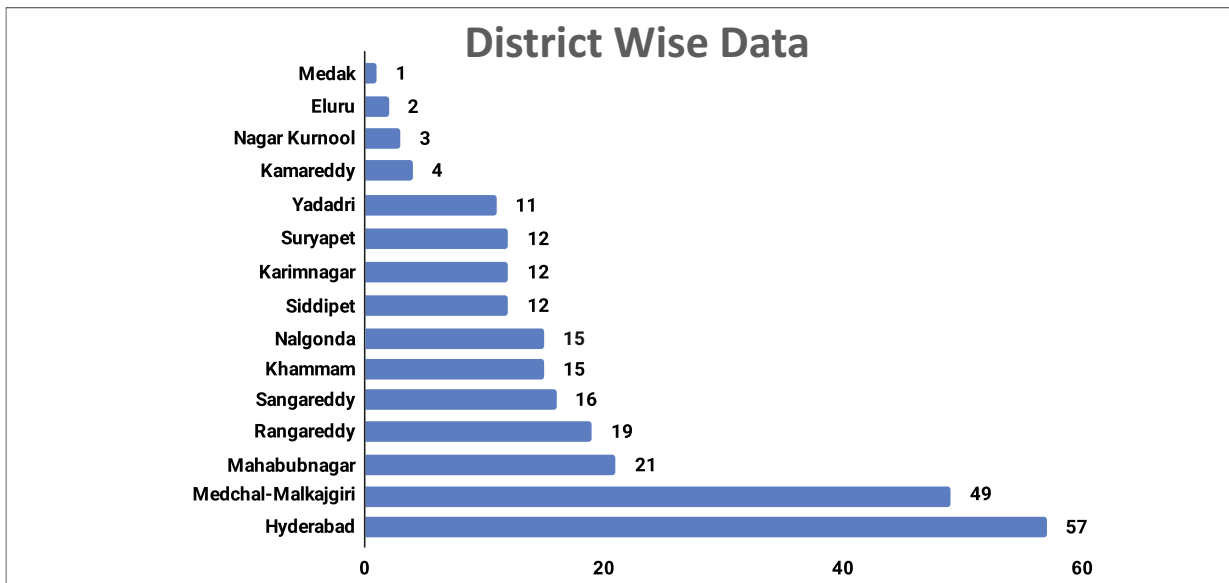
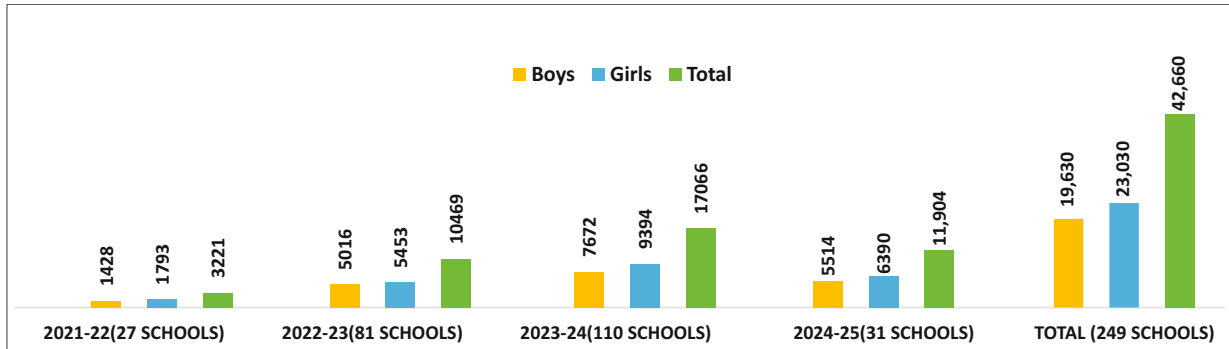


## 4.0 Our work so far

### 4.1 Robotics Workshops in Schools

As of August 09, 2024, we are working with 249 institutions and have trained 42,660+ students. This includes the new set of students we train each year in each of the schools that we support. You can access the current statistics from our portal at [ria.sohamacademy.org](http://ria.sohamacademy.org).

In addition to expanding to new districts soon, we are also taking up several new schools in Hyderabad, Rangareddy, and Medchal-Malkajgiri districts where we are already supporting a large number of schools. The following is the data as of August 09, 2024



## 4.2 Robotics Events & Exhibitions

We organize several robotics events and exhibitions that offer a platform for school innovators to showcase their inventions. Also, our corporate sponsors and local institutions encourage our students to visit their offices and exhibit their projects.

Our biggest exhibition of the year was held on February 29, 2024. A large number of schools from several districts participated in this exhibition.

No	Date	Description	Projects	Students
1	27-Mar-2022	1 <sup>st</sup> Annual Exhibition at Sri Sathya Sai Vidya Vihar, Hyd	28	98
2	06-Nov-2022	Exhibition at IETE, Osmania University, Hyderabad	5	15
3	08-Nov-2022	Exhibition @ Synchrony, Hyderabad	2	4
4	09-Feb-2023	Exhibition @ Synchrony, Hyderabad	5	10
5	22-Feb-2023	Global Volunteer Week at NTT DATA, Hyderabad	5	10
6	28-Feb-2023	2 <sup>nd</sup> Annual Exhibition @ Synchrony, Hyderabad	81	158
7	23-Dec-2023	Exhibition at District Science Forum, Mahabubnagar	21	45
8	29-Jan-2024	FIRST Tech Challenge, Goa Int'l Robotics Festival	1	6
9	30-Jan-2024	Hackathon at Synchrony, Hyderabad	10	30
10	19-Feb-2024	Global Volunteer Week at NTT DATA, Hyderabad	8	16
11	29-Feb-2024	3 <sup>rd</sup> Annual Robotics Exhibition, Uppal, Hyderabad	164	325
12	18-Mar-2024	Exhibition at Government Degree College (A), Siddipet	30	62
		<b>Grand Total</b>	<b>360</b>	<b>779</b>

The following are some photos from the exhibitions









### 4.3 Innovation Melas

To promote innovation, we started organizing *Innovation Melas* in schools in 2023-24.

The *Innovation Melas* help children in completing their innovation challenges. Our innovation coaches visit the schools and work with the robotics club members.



The children complete their robotics models that attempt to solve real-life problems through the application of concepts available in the innovation challenges.

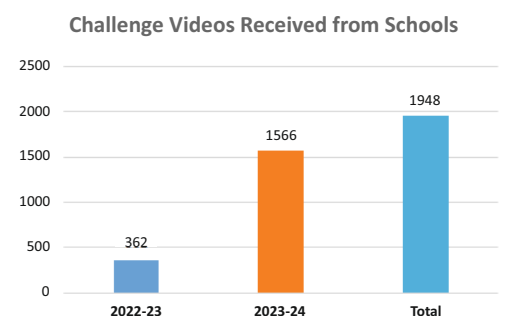
The following is the data as of March 31, 2024.

Month	Schools	Coaches	Students	Projects
Nov-23	29	33	328	52
Dec-23	74	73	978	154
Jan-24	66	69	841	151
Feb-24	193	223	2711	610
Mar-24	24	24	294	61
<b>Totals</b>	<b>386</b>	<b>422</b>	<b>5152</b>	<b>1028</b>

### 4.4 Innovation Challenges

All our supported schools participate in a sequential set of seven robotics challenges. The following is the data as of March 31, 2024.

No	Challenge	2022-23	2023-24	2024-25
1	Bronze	71	183	Starting soon
2	Silver	19	156	
3	Gold	8	91	
4	Platinum	1	30	
5	Diamond	-	16	
6	Masters	-	14	
7	Grand Masters	-	11	



## 5.0 Our Team

Our core team of coordinators, trainers, and innovation coaches work together to implement and execute robotics workshops at various schools. We follow up with the schools to create and nurture robotics clubs. Our trainers run the workshops and prepare the students for a long-term association with our Robotics in Academics program. We have a pool of 1315+ trainers in various colleges across Telangana.

Our innovation coaches visit schools to assist children in participating in the robotics challenges that we release every now and then. We have 120+ innovation coaches across all our supported districts. The following lists our core team members and some of our prominent innovation coaches for the 2024-25 academic year.



**Komaragiri Sahadev**  
Program Director



**Maddala Ganitha**  
Program Coordinator



**Boravelli Jeshwanth**  
Program Coordinator



**Nimma Spandana**  
Robotics Engineer



**Yata Anusha**  
Robotics Engineer



**Kondapur Rahul**  
Robotics Engineer



**Mupparapu Ramya**  
Clubs Coordinator



**Patwari Pavan Kumar**  
Innovation Coordinator

### Our Top Trainers



**M. Srikanth**



**M. Praharsha**



**K. Saketh Reddy**



**K. Siri Priya**



**P. Hamumanth  
Varapasad**



**P. Shreyas**



**K. Varshith Reddy**



**G. Rohith**



**G. Pavan Kalyan**



**S. Saisujith**



**G. Deekshitha Rani**

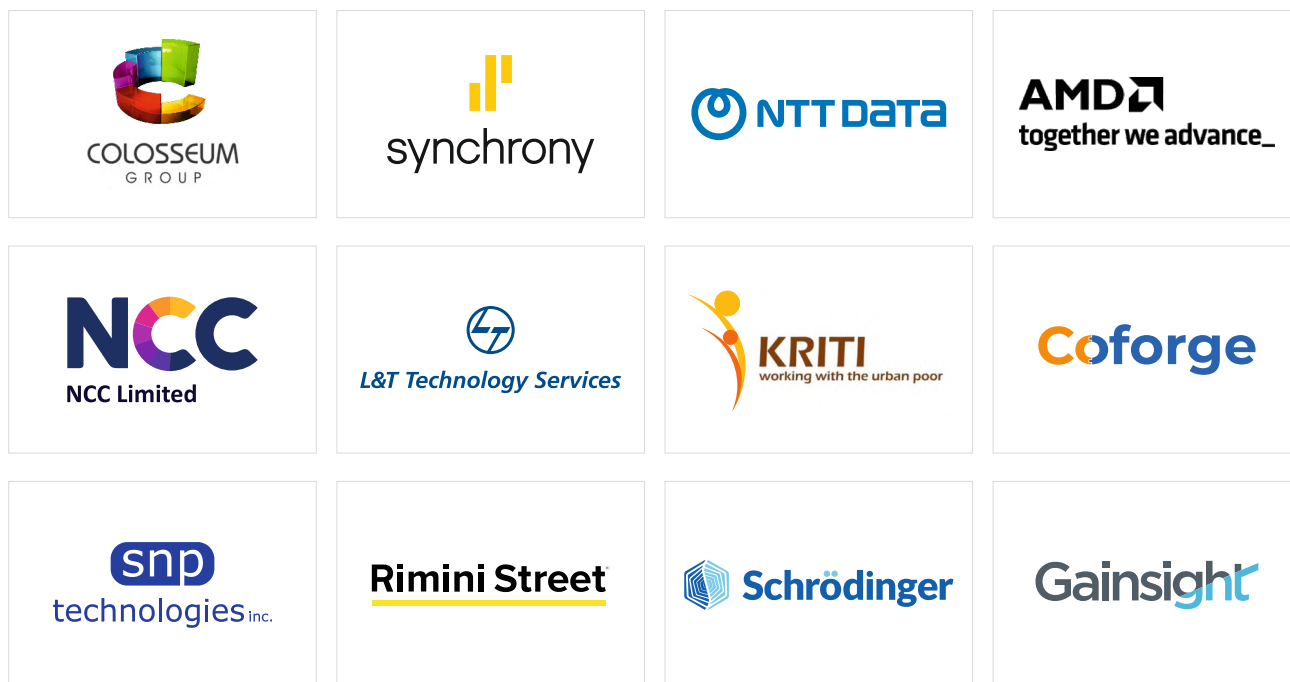


**A. Surender**



## 6.0 Our CSR Partners

We extend enduring gratitude to all our Corporate Social Responsibility (CSR) partners for their invaluable support for our *Robotics in Academics* program.



## 7.0 Testimonials

Teaching and interacting with the students was an immensely rewarding experience. Watching their curiosity and enthusiasm for robotics grow was truly inspiring. I am grateful to everyone supported this initiative. Your dedication and passion for learning have made a significant impact on these young minds.

Thank you to Soham Academy and for making this possible. Let's continue to inspire and empower the next generation with the wonders of technology.

**Kaluvala Aasritha,**  
**Robotics Trainer,**  
B.Tech CSE, JPNCE

The Robotics program launched in selected schools provides an exposure of Robotics and helps in development of scientific attitude and creativity among the students. A Robotic Club with 29 students of our institution has been formed during the current academic year. I look forward to the students reaping optimum benefits of the programme.

It's my privilege and honour to acknowledge the efforts and yeoman service of Soham Academy.

**A. Ram Prasad,**  
**Principal,**  
TSMS, Velimela, Sangareddy



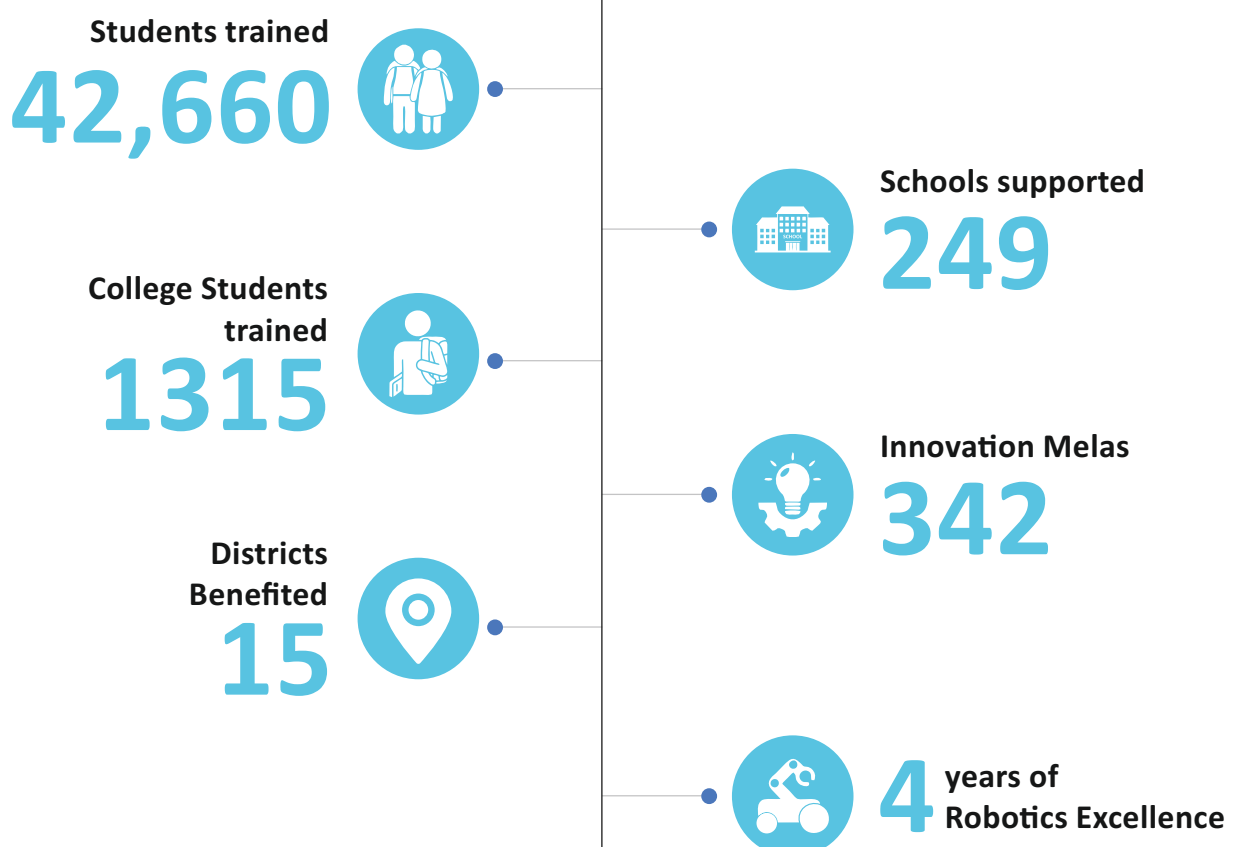
I have joined Soham Academy in 2022. The hands-on learning approach has remarkably enhanced my robotics skills. The programs offered, such as RiA (Workshops & Innovation Melas) and various hackathons, have significantly stimulated innovative thinking. My two-year journey has been exceptional in terms of personal and academic growth. I eagerly look forward to continuing this enriching experience.

**M. Praharsha,**  
Trainer,  
IV - IOT, SMEC

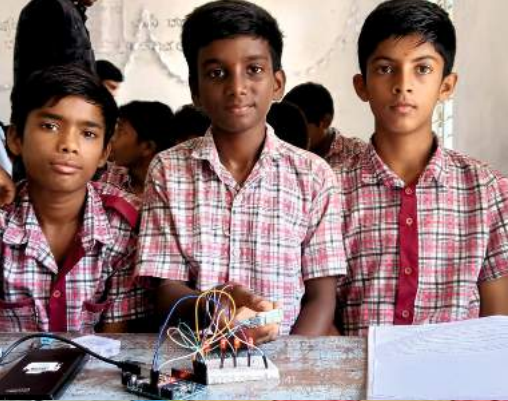
This program is truly beneficial for our government school students. It greatly helps in developing a scientific mindset. Robotics is essential in today's world, and this knowledge is crucial. Teaching robotics to students at a young age significantly impacts their learning and development. We are immensely grateful to Soham Academy for providing this wonderful opportunity to our students and staff.

**M. Suma Latha,**  
Special Officer,  
KGBV, Osman Nagar

## 8.0 Our Powerful Impact









## About Soham Academy of Human Excellence

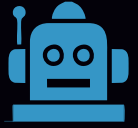
It is our mission to complement the efforts of the schools in doing what they are unable to do and in teaching what they are not equipped to teach.

Over the past 8 years, we have been working with several government, aided, budget, and private schools in both the states of Telangana and Andhra Pradesh. Thousands of children got benefited from the academy's activities in English Proficiency, Learning to Learn, Robotics in Academics, Yoga, Athletics & Sports, Soham Fine Arts, and Soham Leadership programs.

## Our Key Focus Areas

### Robotics in Academics

Our unique hands-on robotics training program aims to bring the latest and greatest technologies to children's doorstep, preparing them for a technologically advanced world that they will inherit. Children will complete 21 activities that make use of various types of sensors, motors, displays, and other accessories. Once the training is completed, we organize Robotics Clubs in each of the schools and nurture them with new innovative programs. For more information, please visit [ria.sohamacademy.org](http://ria.sohamacademy.org).



### Soham Fine Arts

We strive to create a large number of individuals who succeed in their honest pursuits of human excellence. Our children learn to dance and sing songs that have been passed down from generation to generation. We teach them folk dances, semi-classical songs, ancient Samskrit slokas, stotras, and Vedic hymns. Whenever and wherever an opportunity arises, we provide them with a platform to showcase their talents and knowledge



### Soham Leadership

We offer a one-year program that aims to impart the skills and abilities of a leader through defined individual and team goals. Our motto behind the program is to prepare the students to play a key role in their own communities as well as in society at large. As part of the program, our leaders actively conduct interactions with various industry specialists, participate in leadership summits, engage in outdoor activities, take part in fitness challenges, and participate in book reading activities, national day celebrations, and many more. For more information, please visit [sohamleaders.org](http://sohamleaders.org).



### Yoga & Athletics

Our key objective is to keep our students fit and healthy. We achieve this by teaching Yoga and training them in athletics. We have successfully encouraged children to adopt Yoga as an important part of their routine. Their continuous participation in programs at their schools and popular public venues has made this possible. In addition to Yoga, we strongly encourage all our kids to participate in 5K and 10K races and excel in at least one team sport and one individual sport. For more information, please visit [yoga.sohamacademy.org](http://yoga.sohamacademy.org).



[sohamacademy.org](http://sohamacademy.org)

**Soham Academy of Human Excellence**

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## Robotics in Academics



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