



Robotics In Academics

Soham Academy of Human Excellence

Promoting Innovation in Schools



Telangana's Largest Robotics Program in Government Schools

September 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 virtual sessions with all other schools.
7. Clubs are expected to complete 7 levels of challenges during the academic year.
8. Our Innovation coaches will visit the schools to conduct innovation melas for half day each.
9. School participates in the regional and annual robotics exhibition.
10. With support from our CSR 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.

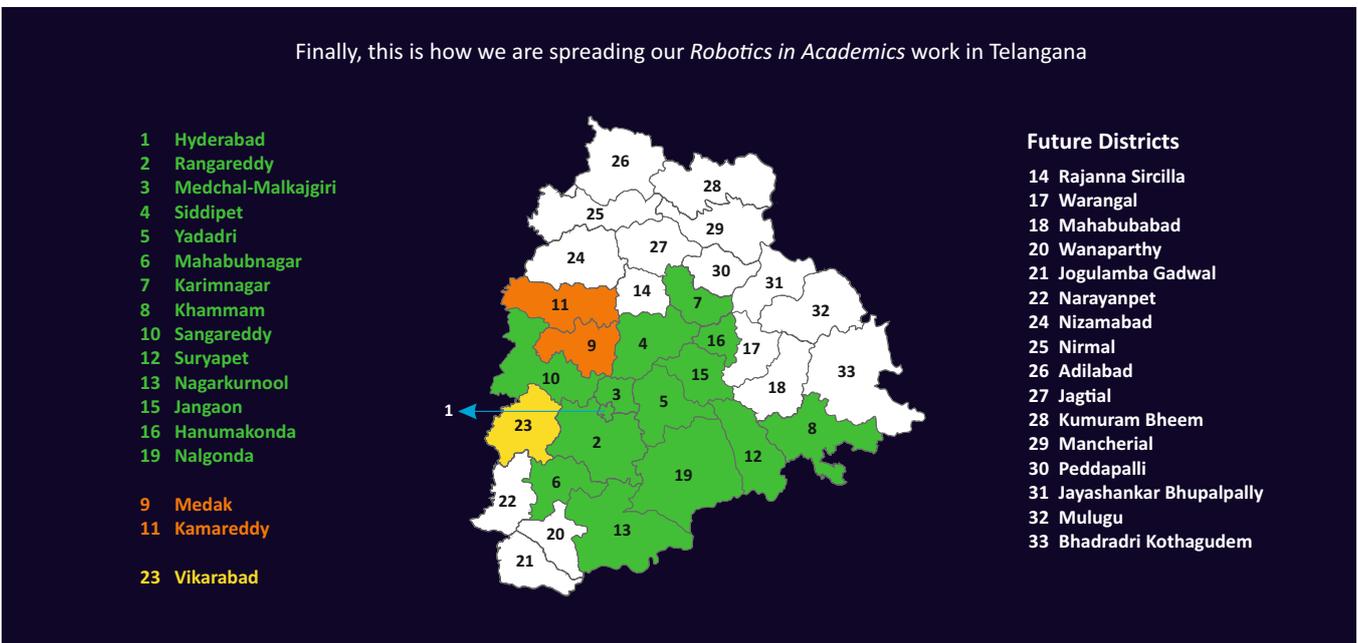
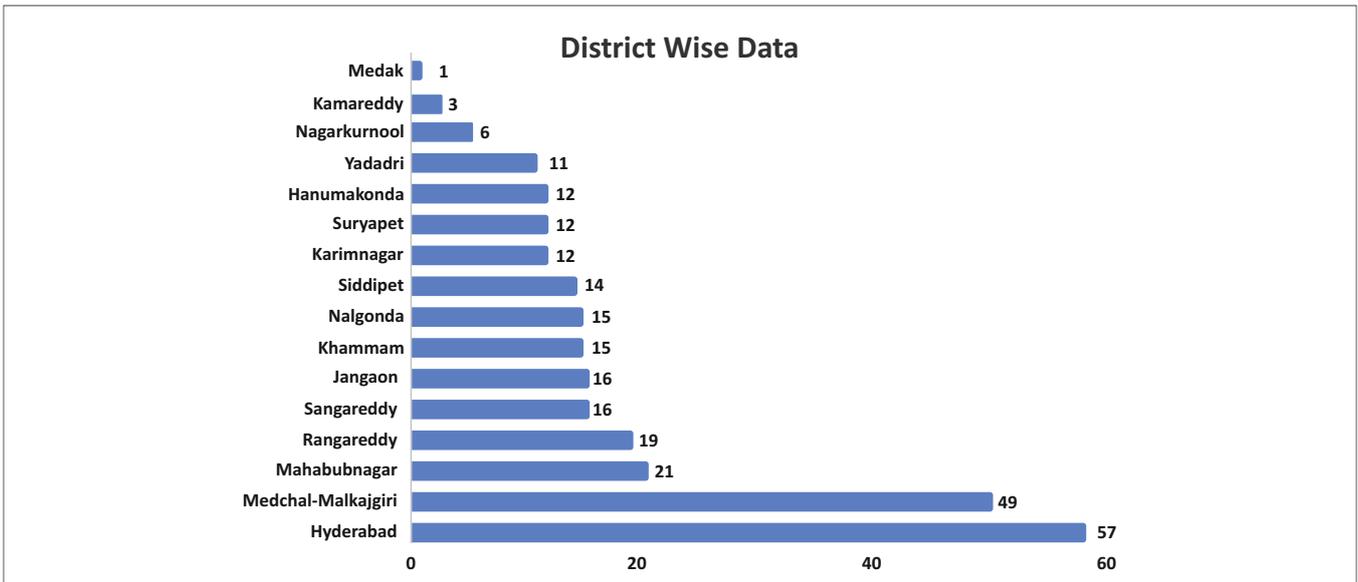
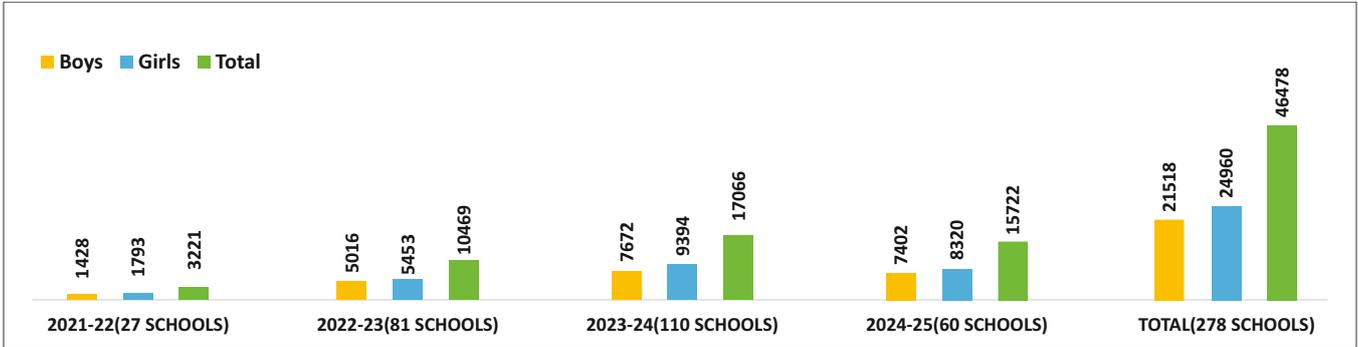


4.0 Our work so far

4.1 Robotics Workshops in Schools

As of September 20, 2024, we are working with 278 institutions and have trained 46,478+ 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.

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 September 20, 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.

Out of all, our Annual Robotics Exhibition truly stands out as the highlight of the year, featuring the latest and most exciting innovations from schools.

No	Date	Description	Projects	Students
1	27-Mar-2022	1 st Annual Exhibition at Sri Sathya Sai Vidya Vihar, Hydrabad	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 nd 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 rd Annual Robotics Exhibition, Uppal, Hyderabad	164	325
12	18-Mar-2024	Exhibition at Government Degree College (A), Siddipet	30	62
13	29-Aug-2024	Mini Hackathon @ AMD, Hyderabad	15	45
14	13-Sep-2024	Exhibition at GHS Shaikpet @ AMD visit	5	15
		Grand Total	380	839





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.

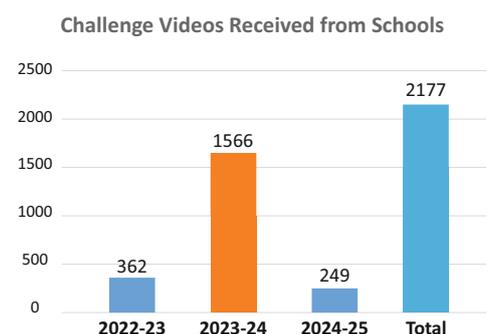
The following is the data of number of visits to schools, innovation coaches involved and students involved in completing the innovation challenges as of September 17, 2024.

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
Aug-24	40	40	530	120
Sep-24	29	35	485	102
Totals	455	497	6167	1250

4.4 Innovation Challenges

All our supported schools participate in a sequential set of seven robotics challenges. The following is the data as of September 17, 2024.

No	Challenge	2022-23	2023-24	2024-25
1	Bronze	71	183	74
2	Silver	19	156	9
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 1583+ 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



K. Pavani



J. Santhosh



K. Saketh Reddy



M. Praharsha



K. Varshith Reddy



M. Srikanth



P. Shreyas



K. Siri Priya



G. Pavan Kalyan



S. Saisujith



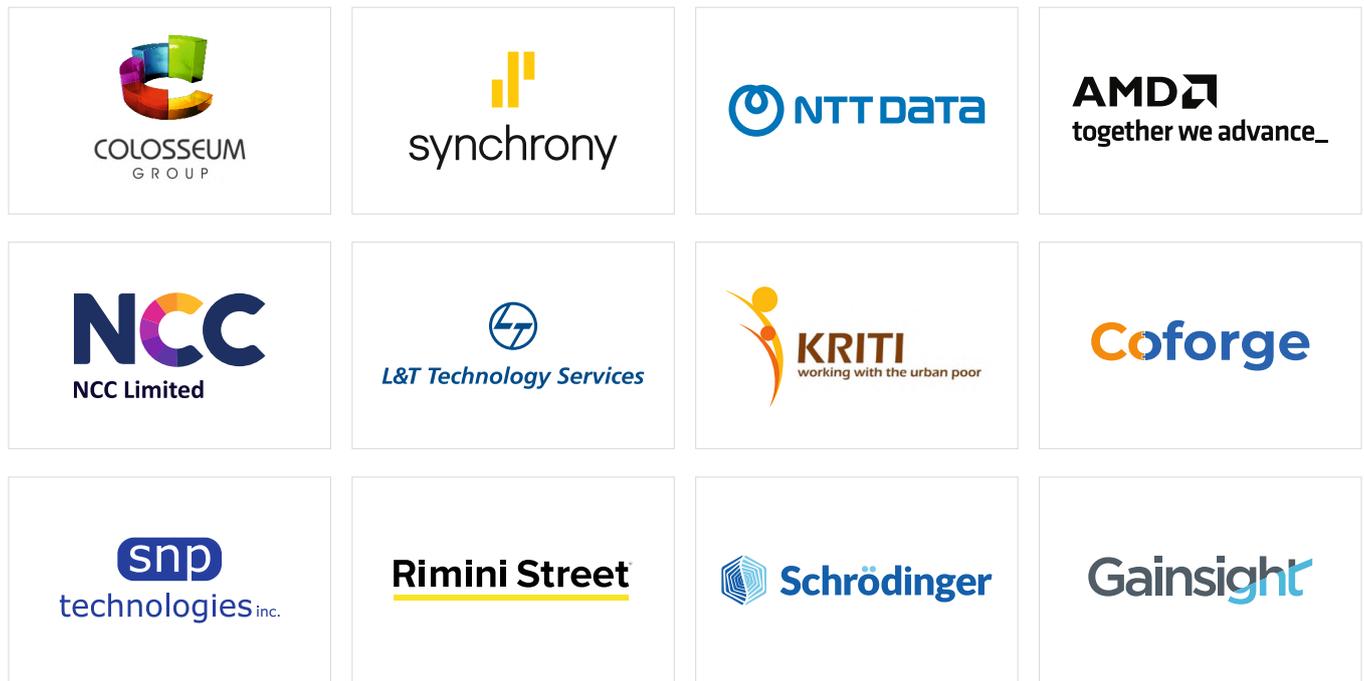
A. Surender



P. Hammuanth
Varaprasad

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

I wanted to express my appreciation for the robotics program conducted by your team. The sessions were well-organized, informative, and engaging. The professionals leading the program were knowledgeable and explained complex concepts in a simple, understandable manner. The hands-on activities were particularly valuable, allowing participants to apply what they learned in real-time. Overall, the program was a great blend of theory and practical experience, significantly enhancing our understanding of robotics. I look forward to more such programs in the future.

Tripal Reddy,
Principal,
TGMS, Chowdaram, Janagaon

Thank you for such a wonderful session. This was one of the most terrific training sessions for our students. They learned many new things and were very involved, completing the activities with great interest. Their practical knowledge improved significantly during the session.

We appreciate you spending your valuable time with our students. Your presentation style was excellent, making the session both enjoyable and informative for them.

Sushmitha,
Robotics Incharge,
Telangana Gurukula Residential School &
Jr college, Kodakandla

Those little, soothing calls – "Brother Powerbank! Sister Powerbank!" – during training sessions at schools are a constant reminder of the joy and impact of my work. Witnessing a student's 'Wow' moment when their own creation works brings a deep sense of happiness. My three years at Soham have been a journey of continuous learning and growth in robotics. I've had the privilege not only to gain in-depth knowledge but also to apply it in creating real-world solutions. Soham's unwavering support has been instrumental in fostering a thriving robotics community.

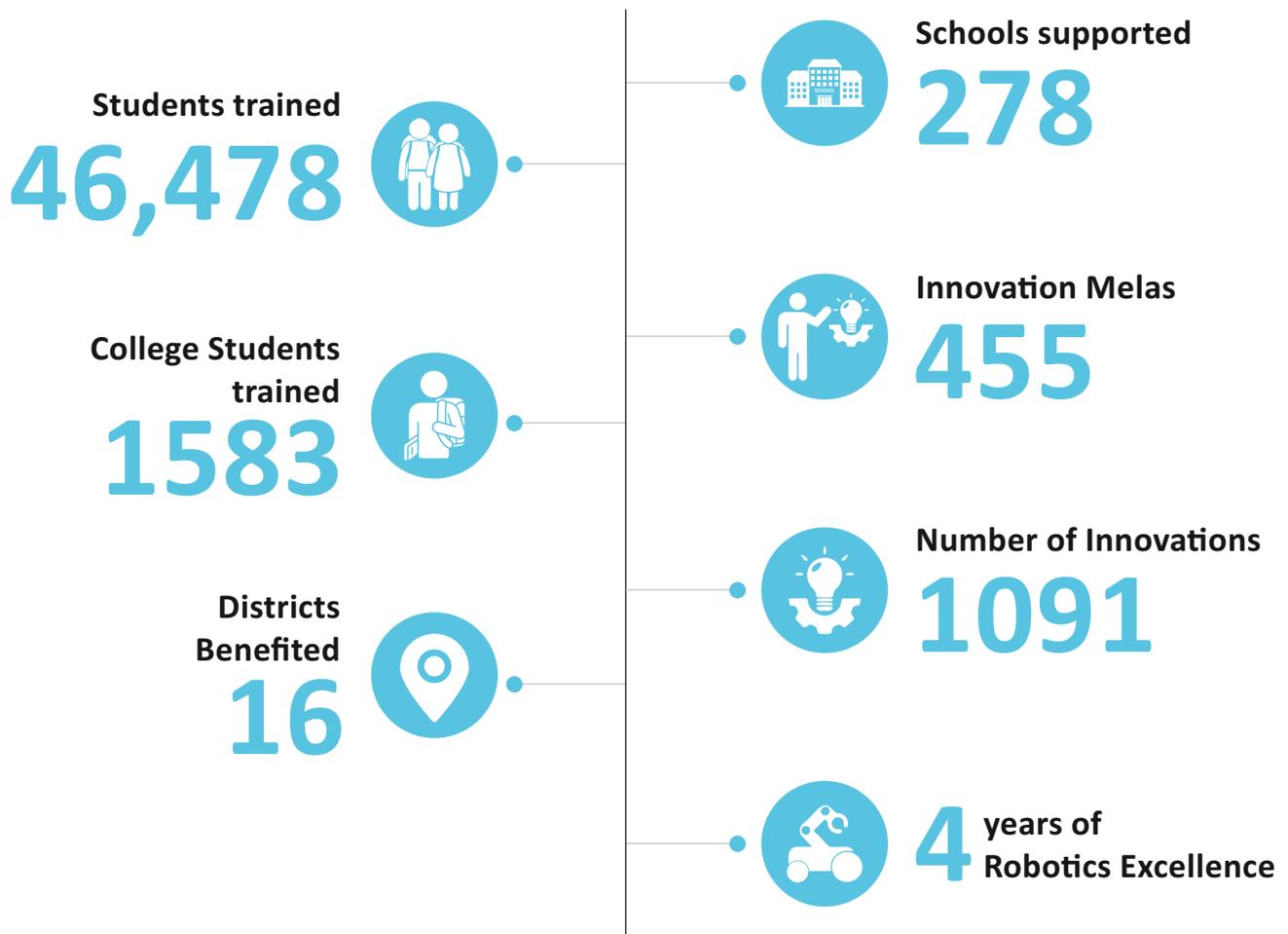
Mamindlapelli Srikanth,
Trainer,
M.Sc II Year, OU

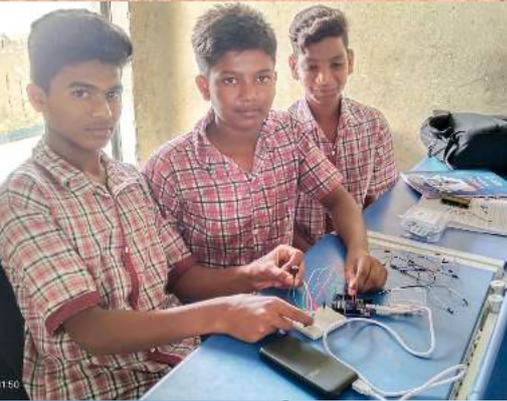
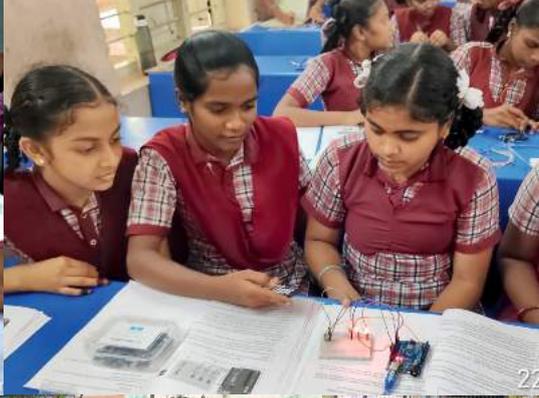
We participated in a one-day workshop on November 24th, 2023, where we completed 21 activities. Our guide teachers, Ramya madam and her team, provided us with various objects like a breadboard, resistors, a 4-digit display, a tilt switch, an active buzzer, a motor driver, a DC toy motor, a Bluetooth module, jumper wires, and USB cables. Before the workshop, I was unfamiliar with these objects, but now I understand them well and find them very useful.

After the program, my friend was even able to repair a home theatre, which shows how beneficial it was for all of us. We also completed the Gold Challenge. Out of the 21 activities, my favourite was the 'Fun Game with LCD.' Although we faced some challenges along the way, robotics has proven to be useful for my future.

P. Santhosh, Xth Class
ZPHS, Nagunur, Karimnagar

8.0 Our Powerful Impact





About Soham Academy of Human Excellence

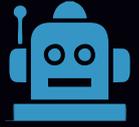
It is our mission to complement the efforts of the schools in doing what they are unable to do and in teaching what they are not equipped to teach.

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.



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.



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.



sohamacademy.org

Soham Academy of Human Excellence

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Contact

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Robotics in Academics



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