



# IHSB STEM WEEK 2024

Organized By



**IHSB STEM Club**



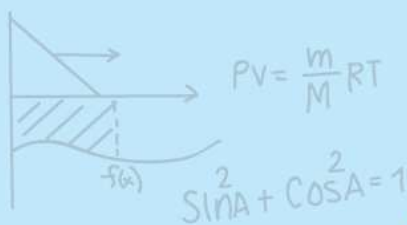
**Hopians Math, Programming  
& Robotics Club**



**INTERNATIONAL HOPE SCHOOL BANGLADESH**

*A Concern of Stirling Education, UK*





## Brief Introduction of **HMPRC**

Hopians Math, Programming & Robotics Club

In today's world, Technology permeates every aspect of life from Educating young minds and growing Businesses to revolutionizing Healthcare and enhancing our daily comforts. These rapid advancements are primarily driven by progress in three fundamental fields: Mathematics, Programming, and Robotics.

The Hopians Math, Programming & Robotics Club (HMPRC) was founded with a clear vision: to equip Students with the foundational knowledge required to navigate the digital world, to share the wonders of Technology, to ignite curiosity, and to inspire innovation. Established under the guidance of International Hope School Bangladesh (IHSB), the Club was brought to life by its founding Alumni members: Md. Mubin Hasan, Moriom Shourovi, Mahi Zarif, Ferdous Ahamed, and Walija Hossain Asbah.

At HMPRC, we believe that every Student has the potential to make meaningful contributions to society and to help shape a better world. Our Club fosters a deeper understanding of Mathematics, Programming, and Robotics, while offering members the opportunity to showcase their creativity and skills at both National and International Competitions. Our hands-on Robotics Workshops promote practical learning through teamwork and the development of transferable skills. Recently, HMPRC expanded its curriculum to include courses on Embedded Systems and the Internet of Things (IoT), broadening the scope of knowledge we offer our members.

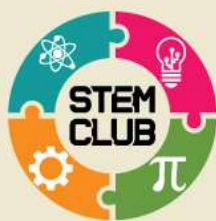
Beyond Academic endeavors, HMPRC successfully Hosted its first major Inter-School Event in February 2024, the "Hopians Math Olympiad," at IHSB, drawing an impressive 900 Participants. The club also Co-Hosted the IHSB STEM Fest, featuring outstanding showcases of Tech and Robotics Projects. Since 2020, HMPRC has been a key contributor to the IHSB Rover Team, with its Coordinators and Members actively participating in the NASA Human Exploration Rover Challenge (HERC).

We stand by the belief that Knowledge is power, information is liberating, and Education is the pinnacle of progress. As the quote goes:

*"Education is not preparation for life; Education is life itself." - John Dewey*







## *Brief Introduction of* **IHSB STEM Club**

The IHSB STEM Club is a dynamic and inspiring community dedicated to cultivating a passion for Science, Technology, Engineering, and Mathematics (STEM). Its mission is to ignite creativity, critical thinking, and problem-solving skills among Students through hands-on Projects and innovative activities. From Robotics and coding to engineering and environmental sustainability, the Club offers Students diverse opportunities to explore real-world applications of STEM, preparing them to excel in an ever-evolving technological landscape.

In February 2024, the IHSB STEM Club proudly hosted its inaugural Inter-School IHSB STEM Fest, an extraordinary Event held on February 16th - 17th. The two-day festival brought together over 1,800 participants, along with distinguished guests and expert judges. Highlights included the Intra-School STEM Project Display Fair, where students showcased ground breaking projects, alongside the thrilling Mathematics Olympiad and Biochemistry Olympiad. These Events promoted innovation, teamwork, and a spirit of friendly competition.

The STEM Fest underscored the crucial role of STEM in shaping our world, as technology and science continue to drive progress and innovation. By engaging Students in challenging and creative activities, the Club equips them with the essential skills to tackle real-world problems and embrace the future with confidence. Events like the STEM Fest inspire Students to think critically, collaborate effectively, and devise innovative solutions to address the pressing challenges of tomorrow.

Through its activities and initiatives, the IHSB STEM Club stands as a testament to the power of education in fostering the next generation of leaders, innovators, and problem solvers, preparing them to make a meaningful impact on society and the world.







# Words from the Chairman

**Timothy Donald Fisher**  
Chairman

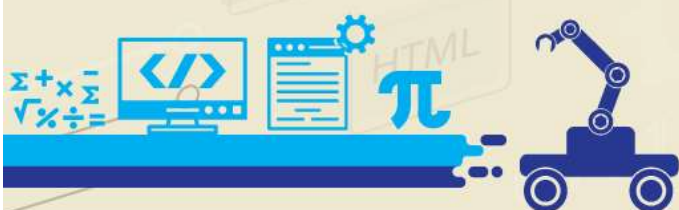
In today's rapidly evolving world, Science, Engineering, and Technology are advancing at an unprecedented pace. Among the driving forces of this progress are Programming, Robotics, and the Internet of Things (IoT), all of which are deeply rooted in Mathematics. Mathematics serves as the cornerstone of these fields, providing the essential foundation needed for innovation and technological breakthroughs.

Robotics, in particular, stands at the intersection of mechanics, software engineering, and integrated circuit design. It pushes the boundaries of what is possible, especially in environments where human presence is unsafe, such as areas with low oxygen levels or high radiation. These scenarios highlight the vital role that advanced robotics plays in our future.

At IHSB, the STEM Club and the Hopians Math, Programming & Robotics Club is committed to nurturing the skills necessary for success in these fields. We actively promote participation in Robotics development and Mathematics related Olympiads, recognizing that these disciplines are the bedrock of scientific and technological advancement. The recent success of the IHSB STEM WEEK, and our participation in the NASA Human Exploration Rover Challenge (HERC) 2024 are testaments to the dedication and talent within our community.

As Chairman of IHSB, I firmly believe in fostering technological growth and progress. Supporting, encouraging, and developing learning across all branches of Science and Mathematics is essential to achieving this vision. I am proud of our students' achievements and excited to see what the future holds for Hopians Math, Programming & Robotics Club.

Thank you and let the IHSB STEM FEST - 2025 commence!







**Rokšana Zarin**  
Principal

# Words form the Principal

As we navigate an increasingly complex and interconnected world, the significance of Science, Mathematics, and Robotics in our educational journey has never been clearer. At our School, we are committed to fostering a learning environment where these disciplines are not only taught but celebrated as vital components of our Students' development.

Science, focusing on exploration and discovery, inspires curiosity and drives innovation. By engaging with scientific concepts and methodologies, our Students learn to question, investigate, and understand the world around them. Whether through lab experiments or field observations, science equips our learners with critical thinking skills and a deeper appreciation for the natural world.

Mathematics, the language of logic and problem-solving, forms the bedrock of many disciplines and everyday decisions. From basic arithmetic to advanced calculus, math empowers students to tackle complex problems with precision and confidence. It nurtures analytical skills and fosters an appreciation for patterns and structures that underpin both our daily lives and the technologies that shape our future.

Robotics, a fascinating intersection of Science, Technology, Engineering, and Mathematics (STEM), offers Students hands-on experiences that bring theoretical knowledge to life. By designing, building, and programming robots, Students not only apply mathematical and scientific principles but also develop teamwork, creativity, and resilience. Robotics challenges Students to think critically and solve real-world problems in innovative ways, preparing them for the demands of a rapidly evolving technological landscape.

Incorporating these subjects into our curriculum ensures that our Students are not only well-prepared for higher education but also equipped with the skills needed to excel in a competitive global environment. Events like the IHSB STEM WEEK and our participation in the NASA Human Exploration Rover Challenge (HERC) 2024 exemplify our commitment to providing Students with opportunities to showcase their talents on prestigious platforms. We believe that by emphasizing the importance of Science, Math, and Robotics, we are laying the foundation for future success and inspiring a generation of thinkers and leaders who will drive progress and innovation.

Together, let us continue to support and encourage our students as they embark on this exciting journey of discovery and learning. The future is bright, and with a strong foundation in Science, Math, and Robotics, our Students will be well-prepared to shape it.







**Kamrul Ahsan**  
Head of Section

# Words form

## the Head of Section

As the Head of Section at International Hope School Bangladesh (IHSB), I am proud to reflect on a year filled with exceptional achievements and groundbreaking initiatives. Our first-ever STEM Week, featuring the Hopians Math Olympiad, Bio-Chemistry Olympiad, and STEM Fest, was a tremendous success that encouraged our students to dive deep into the world of science and mathematics and also provided them with a platform. These events apply their knowledge in real-world contexts. The enthusiasm, creativity, and problem-solving skills displayed during these events were a testament to the bright future that lies ahead for our students.

Another highlight was participating in the prestigious NASA Human Exploration Rover Challenge (HERC) 2024. Competing as the only high school team from Bangladesh, our students showcased their engineering prowess on an international stage, securing a top 10 position. This was an extraordinary achievement and brought immense pride to both our school and our country. The experience of designing and testing their rovers in an environment that mimics extraterrestrial terrain gave our students an invaluable opportunity to grow, both as learners and innovators.

These milestones reflect IHSB's commitment to creating a holistic educational experience, one where students are encouraged not only to excel academically but also to challenge themselves, explore new horizons, and think critically. Our student's success in both local and international competitions demonstrates the strength of our academic programs and the support they receive from our dedicated faculty and staff.

Looking forward, I am confident that IHSB will continue to be a beacon of excellence, inspiring the next generation of leaders, thinkers, and innovators. As our students continue to push boundaries and achieve new heights, we will remain steadfast in our mission to provide an environment that nurtures curiosity, creativity, and a passion for lifelong learning.







# Words form

## the Head of Organizing Committee

**Abul Kalam Azad**

Head of Organizing Committee  
STEM Fest

As the Event Coordinator and STEM FEST Coordinator, I am proud to reflect on our School's extraordinary journey as the first and only institution in Bangladesh to organize STEM FEST since 2019. This groundbreaking initiative has redefined our approach to Education, seamlessly integrating academics with extracurricular excellence to empower the next generation of innovators.

At our School, we believe education should inspire curiosity and creativity beyond the confines of textbooks and classrooms. STEM FEST offers our students an unparalleled platform to engage in practical, hands-on learning. This event nurtures vital skills such as collaboration, communication, and teamwork, essential tools for success in our increasingly interconnected and dynamic world.

Participating in STEM related activities hones critical thinking and problem-solving abilities, equipping students to tackle the challenges of a rapidly evolving future. In an era where rote learning is becoming obsolete, STEM FEST prepares students to thrive in a world that values innovation and the application of knowledge. With the coming decades hailed as the "science decade," we are committed to fostering curiosity and creativity that will fuel scientific breakthroughs and shape a better tomorrow.

This year's STEM FEST stands as a testament to the dedication and ingenuity of our students and teachers. From designing pioneering projects to presenting visionary ideas, their passion and hard work have been nothing short of exceptional. I extend my deepest gratitude to all STEM educators and students for their unwavering commitment, making this year's event a resounding success.

As we look ahead, our resolve to continue STEM FEST remains steadfast. We believe that events like this inspire students to push boundaries, challenge conventions, and emerge as changemakers in their communities and beyond. It is an honor to be part of this transformative journey, and I eagerly anticipate the remarkable achievements our students will bring in the years to come. Together, we are building a brighter, more innovative future one idea at a time.







**Walija Hossain Asbah**  
President

# Words from the Student President

The Hopians Math, Programming & Robotics Club (HMPRC) welcomed me as a Coordinator in the winter of 2021, during the pandemic, a challenging time, to say the least. Teaching Robotics online felt like trying to build a robot with just a blueprint and a webcam, while keeping Students engaged with complex math tricks was a constant struggle. But through determination and teamwork, we've come a long way.

As we returned to in-person activities, HMPRC blossomed. We launched Robotics Workshops and Programming classes, providing hands-on experiences that brought Student creations to life. Highlights include the 2023 Robotics Showcase at STEM Fest and our first Inter-School Hopians Math Olympiad 2024, which transformed our Math enthusiasts into local legends.

As President of the Club, I quickly learned that organizing the Event was far more complex than expected. The journey involved months of planning, securing permissions, and managing a large number of participants. Our team worked tirelessly, from negotiating with sponsors to haggling over medals and filling goody bags late into the night. Despite countless challenges and disagreements, the Olympiad became a celebration of mathematical creativity and collaboration.

Reflecting on our journey, I am immensely proud of HMPRC's growth from its humble beginnings to achieving significant milestones. Watching our Students thrive and showcase their talents has been incredibly rewarding. I look forward to seeing our beloved Club's continued success and future achievements.







**Ferdous Ahamed**  
Vice President

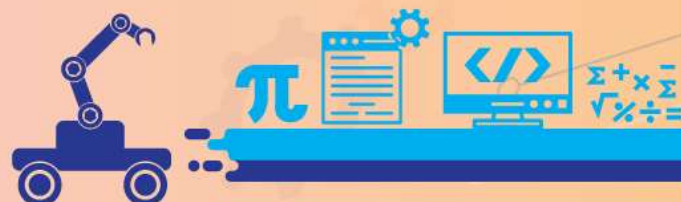
# Words from the Student Vice President

As one of the Co-Founder of the Hopians Math, Programming & Robotics Club (HMPRC), my journey with this incredible Club began in 2020, when a shared passion for Mathematics, Programming, and Robotics brought a group of us together. From its inception, HMPRC was more than just a Club, it was a vision to inspire, educate, and empower students to explore the limitless possibilities of technology.

Over the years, I have witnessed the Club's remarkable growth and transformation. From our early days of organizing small Workshops to hosting large-scale Events like the Hopians Math Olympiad, HMPRC has consistently provided a platform for Students to learn, innovate, and showcase their talents. Our Robotics Workshops, Programming classes, and hands-on challenges have not only honed technical skills but have also fostered creativity, teamwork, and resilience among our members.

One of the defining moments of my journey was representing our School at the NASA Human Exploration Rover Challenge (HERC) 2024. Competing on an International stage was a thrilling experience that tested our skills, determination, and teamwork. It was a proud moment for me, our School, and the HMPRC community, proving that our dedication and hard work could stand shoulder-to-shoulder with some of the best teams in the world.

As Vice President, I am deeply proud of what HMPRC has accomplished and the impact it has had on our Students. The Club's journey has been filled with challenges, learning, and countless memorable moments. I look forward to seeing HMPRC continue to thrive and inspire future generations of Students to dream big, work hard, and never stop exploring the wonders of Mathematics, Programming, and Robotics.





# Introducing

## the Founding Members

“Math drives logic, Programming connects it, and Robotics brings it to life. We built HMPRC to let students experience this synergy.”



Moriom Shurovi  
Co - Founder



Mahi Zarif  
Co - Founder

“Inexperience is the secret weapon.”

“Act as if what you do makes a difference. It does.”

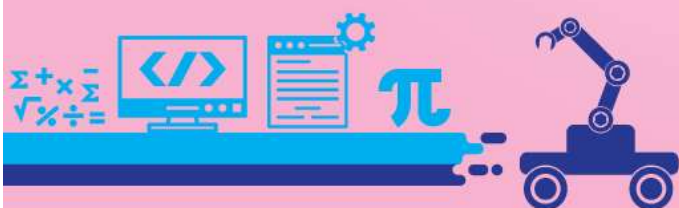


Walija Hossain Asbah  
Co - Founder



Ferdous Ahamed  
Co - Founder

“HMPRC isn't just a Club, it's where curiosity ignites innovation.”





# Introducing

the Founding Members

**Md Asiful Haque**  
Founder



**Ahmed Muztaba Hossain Zarif**  
Co-Founder



**Samiha Tasnim Khan**  
Co-Founder



**Sumiya Islam Neha**  
Co-Founder





# Robotics Workshop

In the month of October, Ferdous Ahamed, Walija Hossain, Mubin Hasan and Tazmina Chowdhury from HMPRC's Robotics Segment set out to execute their first Workshop on the "Obstacle Avoiding Bot". The days leading up to it left their coffee tins empty and their floors crowded with parts, tiny and bulky alike. You could tell, their apprehension on this first-time Event was real.

The opening session was held on the 23rd and primarily focused on manufacturing the body of the renowned, 4-wheeled, Harper. While watching our members go through a frisson of excitement while newly dealing with soldering irons was both amusing and impressive, nothing could remotely compare with the elation they received from the plastic and acrid smell of burnt Arduinos.

The 30th of October brought day two, and it commenced with grave members dealing with intricate wiring, uploading codes beyond comprehension and finally, running their bots. They were later joined by our honorable Vice Principal Arstanbek Sir and Supervising Teacher Shohan sir, who enlightened the afternoon with their uplifting speeches.

Watching their exhausted faces light up upon realizing that their bots came to life under their pricked fingertips was truly worthwhile, and the Club looks forward to organizing more such Workshops in the upcoming months.





# NASA HERC 2022

The NASA Human Exploration Rover Challenge is an annual Event organized by NASA Marshall Space Flight Center, challenging Students to design, build, and test Human-Powered Rovers on simulated extraterrestrial terrains. Inspired by NASA's historical Rovers like the Lunar Roving Vehicle and Mars Rovers, this competition tasks High School and College Students with creating Rovers that can navigate craters, boulders, and other challenging features found on planets like Mars or the Moon.

In 2021, our IHSB Rover Team participated for the second time. Under the leadership of Student Leader Mahi Zarif and guidance from our Advisor Abdus Samad Shohan Sir, we faced numerous challenges, especially with COVID-19 restrictions. As the Student Team Safety Officer, I worked closely with the Mechanical Team, helping to adapt our approach when the Event was shifted online. We completed tasks with our Rover, recorded videos, and submitted them for evaluation, which was far from our initial vision but taught us to persevere.

Despite the hurdles, we qualified for the final round and became the only High School Team to represent Bangladesh consecutively. While we didn't take home an award, the experience was invaluable. It wasn't just about competing; it was about embracing challenges, learning, and valuing the power of teamwork.

Looking forward, I am confident that the foundation we've laid will inspire future IHSB Teams to reach new heights and bring even greater recognition to our School.

R O V E R  
T E A M





# HMPRC Robotic Showcase

In February 2023, International Hope School Bangladesh hosted its 2nd Annual STEM Fest, showcasing the innovative talents of its Students in the fields of Science, Technology, Engineering, and Mathematics. A highlight of the Event was the Robotics Showcase organized by the Robotics Department of Hopians Math, Programming & Robotics Club (HMPRC), under the leadership of President Tazmina Chowdhury. The Robotics Segment, spearheaded by Ferdous Ahamed and Walija Hossain Asbah, featured an impressive array of Student-built Robots, reflecting both creativity and technical skill.

Among the Robots presented were:

- Bluetooth Control Car
- Floor Cleaning Robot
- Hand Following Robot
- Hand Gesture Robot
- Line Following Robot
- Obstacle Avoiding Robot
- Soda Dispenser Machine



These projects demonstrated the Students' ability to apply Programming and Engineering principles in practical, real-world applications. The Robotics Showcase was a testament to the ingenuity and teamwork fostered within HMPRC, marking another successful chapter in IHSB's commitment to STEM Education.







# IHSB STEM WEEK

IHSB STEM WEEK 2024





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**IHSB STEM WEEK 2024**







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OUR JOURNEY FOR THE LAST 49 YEARS WAS ALL ABOUT EXPLORING NEW FRONTIERS



YEARS OF EXPERIENCE  
**49**



INDUSTRIAL UNITS  
**54**



EXPORTING COUNTRIES  
**52**



EMPLOYEES  
**50,000**



DISTRIBUTORS  
**6,650**



SUPPLIERS  
**15,000**



YEARLY TURNOVER  
**\$ 3.0 Billion**



USE OF MGI PRODUCTS  
**1 in every 2 households in Bangladesh**

**IHSB STEM WEEK 2024**







## IHSB STEM WEEK 2024

As a STEM oriented institution, IHSB has always been committed to nurturing the talents of Students eager to explore the fields of Science, Technology, Engineering, and Mathematics. Over the years, our School has recognized that true academic potential extends beyond traditional coursework and transcripts. On the 16th and 17th of February 2024, IHSB proudly hosted its 3rd Annual STEM Fest, known as IHSB STEM WEEK, a remarkable testament to this vision.

The Event featured three key Categories: An Inter-School Biochemistry Olympiad, an Inter-School Mathematics Olympiad, and an Intra-School Project Display. With the collaborative efforts of the Hopians Math, Programming & Robotics Club, STEM Club, and the IHSB Rover Team, the Event was flawlessly executed. A special highlight was the presence of our esteemed Chief Guest, Professor Dato' Ir. Mohammed Saleh Jafr, alongside Special Guest Dr. Abdul Khaleque, Ph.D., whose insights added immense value to the Event.

The IHSB campus was alive with excitement as around 1,800 young STEM enthusiasts filled Classrooms, IHSB Arena, and the Indoor Arena. The competition was thoughtfully organized to provide fair opportunities for Students across various age groups. Once again, IHSB showcased its dedication to holistic Education, offering a platform where Students not only honed their skills and critical thinking but also developed their social and adaptive abilities.

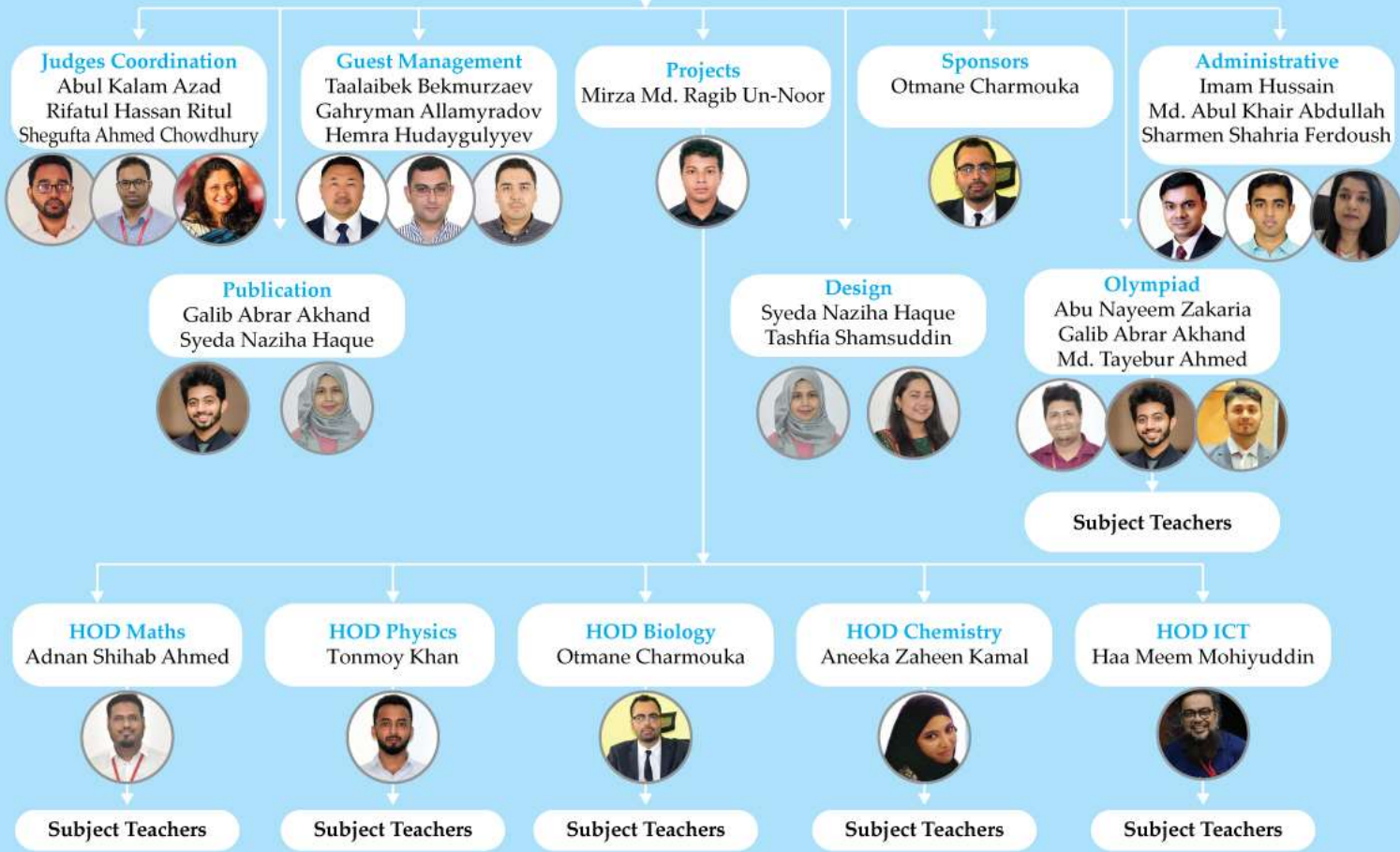
STEM Fest - 2024 was more than just a competition; it was a celebration of curiosity, collaboration, and innovation. It brought together Students from across the country, fostering connections, sharing knowledge, and inspiring one another. As proud Hopians, we can confidently say that IHSB continues to give us the wings to soar and realize our dreams. With Events like these, the School extends those same opportunities to Students nationwide.







**Head of  
Organizing Committee**  
Otmane Charmouka





## IHSB STEM FEST Presidents



Md Asiful Haque  
President



Ahmed Muztaba Hossain Zarif  
Vice - President

## Hopians Biochemistry Olympiad Presidents



Samiha Tasnim Khan  
President



Sumiya Islam Neha  
Vice - President

## Hopians Math Olympiad Presidents



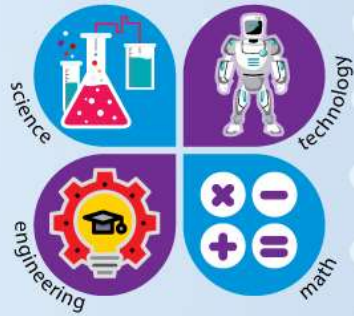
Walija Hossain Asbah  
President



Ferdous Ahamed  
Vice - President







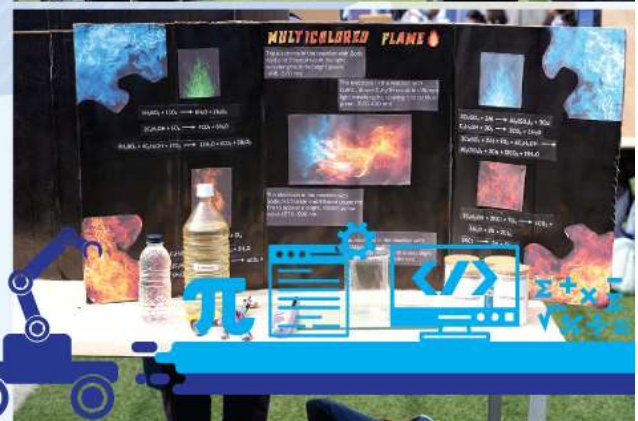
## A Brief Description of STEM PROJECT DISPLAY

What inspires young innovators to explore new ideas, research diverse fields, and discover the joy of learning? For the Students of International Hope School Bangladesh (IHSB), the answer was clear at the STEM Project Display - 2024, held on February 17th. This highly anticipated Event, larger in scale than previous STEM Fests, showcased the best of Student driven exploration across Science, Technology, Engineering, and Mathematics (STEM).

This year's Intra-School competition featured participants in four Categories: Junior (Grade 6), Middle School (Grades 7-8), Secondary (Grades 9-10), and Higher Secondary (Grades 11-12). Students presented their innovative projects, blending creativity with scientific research on a wide range of topics.

Adding to the excitement, Grade 6 Students participated in a "Dress as a Scientist" day, bringing a fun and imaginative twist to the Event while fostering early engagement in STEM fields. Esteemed judges from various scientific disciplines provided valuable feedback, elevating the experience for all participants.

Events like the STEM Project Display play a crucial role in inspiring Students to pursue their passions in STEM. By offering a hands-on platform for learning and collaboration, IHSB continues to nurture the next generation of innovators, equipping them with the skills and knowledge to excel in an increasingly STEM driven world.





**Thank you to all our STEM teachers  
for your dedication and inspiring  
the innovators of tomorrow!**



**IHSB STEM WEEK 2024**







IHSB STEM WEEK 2024









$$PV = \frac{m}{M} RT$$

$$\sin^2 A + \cos^2 A = 1$$



# IHSB STEM WEEK 2024

## SPECIAL GUEST



**Abdul Khaleque, Ph. D**  
Professor  
Dept. of Biochemistry & Microbiology  
North South University



**Professor Dato' Ir Mohd Saleh Jaafar, PhD**  
Pro Vice-Chancellor  
UCSI University Bangladesh Branch Campus

## MEET OUR JUDGES FOR STEM FEST



**Dr. Md. Aftab Uddin**  
Professor, Department of  
Genetic Engineering and Biotechnology,  
University of Dhaka



**Prof. Dr. A.H.M. Saifullah Sadi**  
Chairman, Uttara University  
Department of Computer Science &  
Engineering Director, IT Division



**Dr. Md. Manirul Alam Sarker**  
Professor & Head Department of Mathematics  
Bangladesh University of Engineering & Technology (BUET)



**Prof. Dr. Md. Mijanur Rahman**  
Professor, Dept. of Computer Science & Engineering  
Dean, School of Science & Engineering  
Uttara University, Dhaka, Bangladesh.



**Md. Rezaul Karim**  
Associate Professor, Department of Physics  
Dhaka University of Engineering & Technology (DUET)



**Sufia Islam, PhD**  
Professor, Department of Pharmacy  
Faculty of Sciences and Engineering  
East West University





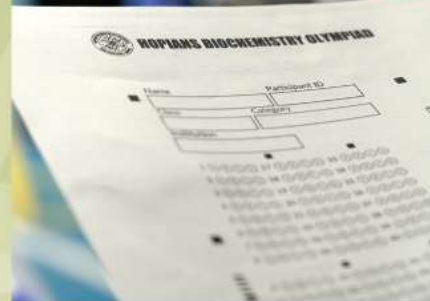


## A Brief Description of **HOPIANS BIOCHEMISTRY OLYMPIAD**

The Hopians BioChemistry Olympiad (HBO), organized by the IHSB STEM Club, was a landmark event as the first-ever Inter-School Biochemistry competition hosted by our STEM community. Held at the International Hope School Bangladesh, this groundbreaking Olympiad welcomed approximately 450 enthusiastic participants from Schools across the region, fostering excitement and collaboration in the field of Biochemistry. Divided into four categories, Junior (Grades 6-7), Middle School (Grades 8), Secondary (Grades 9-10), and Higher Secondary (Grades 11-12). The event provided a structured and fair competitive platform for students of varying age groups.

Participants faced a stimulating set of 40 MCQs, designed to test their comprehension and analytical skills in biochemistry. This engaging format not only challenged their knowledge but also cultivated an enthusiasm for scientific inquiry, encouraging Students to delve deeper into the intricate processes of life sciences.

To celebrate their remarkable achievements, top-performing Students were honored with medals, while the top three scorers in each category received prize money, highlighting the significance of their accomplishments. The Olympiad served as an inspiring stage for budding scientists to showcase their talents, build confidence, and aspire for greater academic and scientific success. Competitions like HBO are instrumental in nurturing critical thinking, creativity, and a deeper understanding of science. By exploring the fascinating interplay of biology and chemistry, students gain valuable skills and inspiration to pursue careers in STEM fields, equipping them to become the innovators and problem-solvers of tomorrow.







## A Brief Description of **HOPIANS MATH OLYMPIAD**

On February 16th, 2024, the Hopians Math, Programming & Robotics Club (HMPRC) proudly organized its first-ever Inter-School Competition, the Hopians Math Olympiad (HMO). The Event made history at the International Hope School Bangladesh (IHSB), bringing together 875 Participants from Schools across the City. For one day, the IHSB Campus became a vibrant center of Mathematical exploration and enthusiasm.

The Olympiad consisted of a 40 Multiple Choice Question, the exam was designed to challenge and inspire Students across four Categories:

- Junior Category (Grades 5-6)
- Middle School Category (Grades 7-8)
- Secondary Category (Grades 9-10)
- Higher Secondary Category (Grades 11-12)

Far more than just a test of numbers, the Olympiad celebrated the power of Mathematics as a fundamental tool for innovation. The Event highlighted how Math underpins every aspect of STEM, from designing rockets to solving global challenges.

Through their participation in the Olympiad, Students not only tested their Mathematical skills but also grew as critical thinkers, problem-solvers, and future innovators. With this successful launch, HMPRC looks forward to hosting even more ambitious and inspiring Events in the future!





## Finance Department



Nahian Ahmed  
Director

## Academics Department



Tazmina Chowdhury  
Director



Md Shourov Hasan  
Associate Director

## Participants Affairs Department-HBO



Auhona Nawar  
Director

## Participant Affairs Department-HMO



Faizaan Ahmad  
Director



Fatihatul Jannat Tahiya  
Associate Director





## **Operations & Logistics Department**



**Al Afif Wasitto**  
Director

## **Entertainment Department**



**Shajadi Ayman Sultana**  
Director

## **Hospitality Department**



**Samira Dilshad Mostofa**  
Director

## **Security Department**



**Abdallah Diaaeldin Hassan Ahmed**  
Director

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**Israt Nahar**  
Director

## **Human Resources Department**



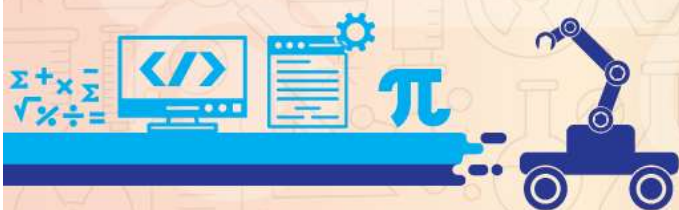
**Akhiar Hossain Saife**  
Director





# PARTICIPATING SCHOOL LIST

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2. Academia School
3. Aga Khan Academy
4. Aga Khan School
5. Australian International School
6. BAF Shaheen English Medium College
7. Bangladesh International Tutorial
8. Canadian Maple International School
9. Chittagong Grammer School
10. Daffodil International School
11. Delhi Public School STS
12. Don Bosco School & College
13. Glenrich International School
14. HURDCO International School
15. International Hope School Bangladesh (Chittagong Branch)
16. International Hope School Bangladesh (Gulshan Branch)
17. International Hope School Bangladesh (Uttara Junior Section)
18. International Hope School Bangladesh (Uttara Senior Section)
19. International School Dhaka
20. Kids Campus
21. Lakehead Grammar School
22. Manarat Dhaka International School & College
23. MASCO School Kanchan
24. Mastermind English Medium School
25. Oxford International School
26. Playpen School
27. Prime Bank Grammer School
28. Saint Joseph International School
29. Saint Lawrence School
30. Scholastica School (Mirpur)
31. Scholastica School (Uttara)
32. Sir Jon Wilson School
33. South Point School & College
34. The Radius International School
35. William Carey Academy





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# Closing Ceremony

The STEM WEEK - 2024 Closing Ceremony marked an exhilarating conclusion to a week filled with intellectual challenges and inspiring collaboration. After the intense STEM Fest Project Display, Biochemistry and Math Olympiads came to an end, the Top 50 Participants were invited to join in the festivities, celebrating their achievements.

The Event was expertly hosted by Abdallah Dia and Walija Hossain Asbah, who boosted the energy in the room with their lively and interactive hosting. Their charisma made the ceremony even more engaging and set the tone for the rest of the evening. Md. Asiful Haque, the President of STEM WEEK, took the stage to share his reflections, offering insights into the foundation of what made this Event such a success.

The evening kicked off with a captivating performance by Rayan Areeb Khandker, whose music enchanted the crowd. Following his performance, the Top achievers of the Hopians Math Olympiad were honored with Certificates and Medals, celebrating their exceptional performances. The Top three participants from each category were further rewarded with well-deserved Cash Prizes.

Afterward, Sumiya Islam Neha, a brilliant singer from IHSB, wowed the audience with her stunning vocals, further uplifting the mood. The Top performers of the Hopians Biochemistry Olympiad were next in line to receive their Awards, including Cash Prizes, Medals, and Certificates for their remarkable achievements.

Then came the electrifying duo performance by Juthika Basharat Karim and Rayan Areeb Khandker, which had the entire audience on their feet. The STEM Fest Project Fair awardees were then invited to the stage, where they were recognized with Certificates and Medals for their innovative and creative projects in STEM Fields. Adding even more variety to the Entertainment, Ashfia impressed the crowd with her mesmerizing ethnic dance performance.

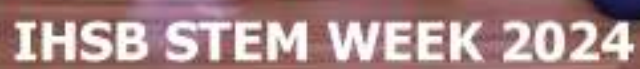
The evening reached its climax with the highly anticipated concert by Ariyan Chowdhury, a talented IHSB Alumnus. His powerful performance had the audience buzzing with excitement, as they danced and sang along. To wrap up the night, everyone gathered in the Indoor Arena for a delightful feast, bringing an unforgettable end to STEM WEEK - 2024. This Event will surely be remembered as one of IHSB's most thrilling and inspiring moments.

















## Two-day long STEM Fest ends

UNB NEWS DHAKA PUBLISH- FEBRUARY 17, 2024, 11:21 PM UNB NEWS



A two-day long Math and Biochemistry Olympiad, and Science, Technology, Engineering & Mathematics (STEM) Fest ended on Saturday with massive participation with a display of academic prowess and scientific ingenuity.

Organised by student-governed clubs of International Hope School Bangladesh (IHSB) Hopians Math, Programming & Robotics Club(HMPRC), IHSB STEM Club, and IHSB NASA Rover Team, these events showcased the dedication and talent of students from various educational backgrounds.

A total of 50 famous schools of the capital participated in this science festival while around 1500 students displayed 115 science projects.

The organizers said that the modern technology-rich projects in this festival with biochemistry, robotics, materials, chemistry and other science-related topics have introduced the students' scientific mindset and scientific thinking.

Dhaka 18 Constituency Member of Parliament Khosru Chowdhury was present as the chief guest in this festival while Professor of Biochemistry and Microbiology Department of NorthSouth University Abdul Khaleque and Pro-Vice Chancellor of Bangladesh Branch of UCSI University of Malaysia Prof. Dat'r Mohammad Saleh Jafaar were present as special guests. Roksana Jerin, Principal of International Hope School delivered welcome speech. Member of Parliament Khosru Chowdhury commented that such an arrangement will take Bangladesh further in science practice. He also expressed hope that through these science-oriented students, Bangladesh will be able to achieve a position of glory in the world.

In the welcome speech, Principal of IHSB Roksana Jerin said, "From the very beginning, students were very interested in this science festival. Through such competitions, students are proving their skills in science and modern technology."

"Many of the participants of STEM Fest in the past few years have won second place in the international competition in Dubai. This is a great achievement for us. This time again, the students participating in this competition will gain a lot of reputation at the international level," he said.

On the second day of the festival (February 17) various stalls were opened in the school grounds from 10 am. Each stall had a variety of science-related exhibits.

The Math Olympiad, one of the highlights of the two-day extravaganza, attracted an impressive cohort of 900 participants. With challenges designed to test mathematical acumen and problem-solving skills, contestants engaged in intense competition, striving to outshine their peers and claim top honors. From complex equations to intricate geometric puzzles, the Math Olympiad pushed participants to their intellectual limits, fostering a spirit of healthy competition and academic excellence.

Simultaneously, the Biochemistry Olympiad, another cornerstone of the event, drew nearly 500 aspiring scientists and researchers. Participants delved into the fascinating world of biochemical phenomena, exploring topics ranging from enzymatic reactions to molecular structures. Through a series of rigorous assessments and practical tasks, competitors demonstrated their understanding of biochemical principles, showcasing their potential as future leaders in the field of life sciences.

Complementing the Olympiads was the IHSB STEM Fest, a vibrant celebration of innovation and creativity. Featuring a diverse array of 100 projects and miniature metro-rail, the fest provided a platform for students to showcase their scientific discoveries, technological innovations, and engineering marvels. From robotics demonstrations to sustainable energy solutions, each project reflected the passion and ingenuity of its creators, inspiring attendees and judges alike.







**IHSB NASA ROVER TEAM**

## **NASA HERC - 2024**

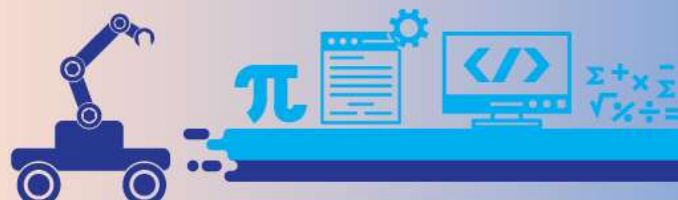
The NASA Human Exploration Rover Challenge (HERC) is a prestigious and continuously evolving competition that engages Students in hands-on Engineering Design aligned with NASA's Artemis Missions. This year, a Team of 10 enthusiastic Students from International Hope School Bangladesh (IHSB) had the honor of being one of the 72 Teams globally selected to compete in this prestigious challenge, proudly representing Bangladesh as the only High School Team.

After months of hard work and the submission of detailed reports, designs, and presentations, the team prepared for the final event at the U.S. Space & Rocket Center in Alabama, USA. From April 18th - 20th, 2024, 8 Members of the IHSB Rover Team showcased their meticulously crafted Rover on a course designed to mimic the rugged terrains of Mars. Despite the immense challenge, the drivers skillfully navigated the obstacles, demonstrating the team's engineering prowess.

Funding such a significant project required substantial support, and the Team's sponsors played a crucial role in making the project a reality. The team was Powered by the ICT Division, Startup Bangladesh, and Meghna Group of Industries, with additional Sponsorship from CITY Group, Savoy Ice Cream, and Index Group. Their financial backing was vital to the Team's success.

Securing the 10th Position in the High School Category was a remarkable achievement, especially given that this was the Team's first on-site participation in the USA. Though some rookie mistakes were made, the Team exhibited incredible teamwork and came up with innovative solutions to address the issues encountered during the challenge. The experience was not only a triumph but also an invaluable learning opportunity, providing the foundation for future improvements in Rover design.

As IHSB's NASA Team looks toward future challenges, their journey stands as a testament to Bangladesh's growing capabilities in the fields of Engineering and Science on the global stage.





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**IHSB STEM WEEK 2024**







IHSB STEM WEEK 2024



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THSB STEM WEEK 2020



## IHSB takes on NASA Human Exploration Rover Challenge 2024



International Hope School Bangladesh (IHSB) Students reach for the stars in the NASA Human Exploration Rover Challenge 2024 at the U.S. Space and Rocket Center in Huntsville, Alabama. IHSB achieved a significant milestone by securing its position as the first and only school in Bangladesh to participate in the esteemed NASA Human Exploration Rover Challenge 2024.

International Hope School Bangladesh (IHSB) Students reach for the stars in the NASA Human Exploration Rover Challenge 2024 at the U.S. Space and Rocket Center in Huntsville, Alabama. IHSB achieved a significant milestone by securing its position as the first and only school in Bangladesh to participate in the esteemed NASA Human Exploration Rover Challenge 2024.

International Hope School Bangladesh (IHSB) has consistently demonstrated a commitment to innovation and excellence. This year, the school continued to uphold this tradition as one of the 72 teams selected. This remarkable feat was made possible through the support of Startup Bangladesh Limited, ICT Division Bangladesh, and the sponsorship of City Group, Savoy & Index Group and Meghna group.

For all latest news, follow The Daily Star's Google News channel.

A team comprising 10 dedicated high school students, Md Asifur Haque, Ahmed Muztaba Hossain Zarif, Ferdous Ahamed, Md Hasan Zafeer Prodhan, Afraj Azmaeen Hoq, Jawad Hossain, Warda Karicha Zara,

বৃহস্পতিবার, ২৮ নভেম্বর, ২০২৪

বাংলাদেশ প্রতিদিন

জাতীয় পূর্ব-পশ্চিম মাঠে ময়দানে শেখিল বাগিচা ইসলামী জীবন বসুন্ধরা অভ্যন্তর অন্যান্য শিরোনাম

সেইসময় সড়ক দুর্ঘটনায় একজনের প্রাণহানি পশ্চিম বুলবুলে সেন্ট হেনরিচের স্কুল শাখা, বঙ্গ বাকবে কলেজ শাখা বকেয়া বেতনের দাবিতে গাড়ীস

আসসালামু আলাইকুম

নাসার প্রতিযোগিতায় বাংলাদেশের ১০ স্কুল শিক্ষার্থী



ল বাংলাদেশ-এর শিক্ষার্থীদের একটি দল এ বছর নাসা হিউম্যান এক্সপ্লোরেশন রোভার চ্যালেঞ্জ ২০২৪-এ অংশ নেওয়া বাংলাদেশের একমাত্র স্কুল হিসেবে জয়গ্যা করে নিয়েছে ইন্টারন্যাশনাল হোপ স্কুল বাংলাদেশ (আইএইচএসবি)।

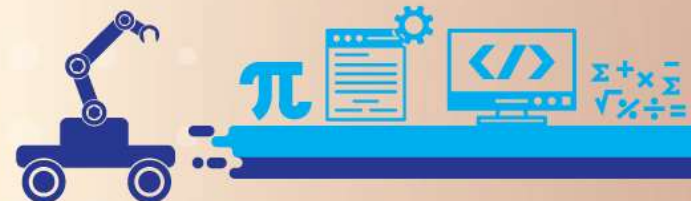
১৪টি দেশের কয়েক হাজার আবেদনের মধ্য থেকে ইন্টারন্যাশনাল হোপ স্কুল বাংলাদেশসহ বিভিন্ন দেশের ৭২টি দল এ প্রতিযোগিতায় অংশ নিচ্ছে।

নাসা হিউম্যান এক্সপ্লোরেশন রোভার চ্যালেঞ্জ ২০২৪-এ অংশ নেওয়া বাংলাদেশের একমাত্র স্কুল হিসেবে জয়গ্যা করে নিয়েছে ইন্টারন্যাশনাল হোপ স্কুল বাংলাদেশ (আইএইচএসবি)।

১৯ এপ্রিল (করুবার) যুক্তরাষ্ট্রের আলাবামার হাউসভিলে ইউএস স্পেস অ্যান্ড রকেট সেন্টারে দুই দিনব্যাপী ৩০তম বার্ষিক নাসা হিউম্যান এক্সপ্লোরেশন রোভার চ্যালেঞ্জ শুরু হয়। বাংলাদেশি দলটি এ প্রতিযোগিতায় 'মেইজ ইন বাংলাদেশ' নামক একটি রোভার প্রদর্শন করে।

আইএইচএসবির বিজ্ঞানশিক্ষক ও স্টেম ফেস্ট সমন্বয়ক ওতমান চারমৌকার নেতৃত্বে প্রতিযোগিতায় অংশ নেওয়া শিক্ষার্থীদের মধ্যে রয়েছেন মো. আসিফুল হক, আহমেদ মুক্তাবা হোসেন জারিফ, ফেরদৌস আহমেদ, মো. হাসান জাফির প্রদান, আফরাজ আজমাইন হক, জাওয়াদ হোসাইন, ওয়ার্দা কারিচা জারা, শাহজাদি আরমান মুলতানা, মাহজাবিন আলম রোশনি এবং সামিহা তাসনিম বান। এছাড়া এই দলের সফরসঙ্গী হিসেবে আছেন স্কুলের ভাইস প্রিন্সিপাল গেরিমান আলমিরাদত।

বিভি-প্রতিদিন/বাজিত





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