THE LIGHTHOUSE

Guiding ideas, inspiring futures



THE INDIAN INTERNATIONAL SCHOOL

Edition 3

Innovation and Technology Council

Shaping tomorrow, one council at a time

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Preface

The Student Council was created to give students a space to lead, collaborate and bring meaningful ideas to life. Each council, whether focused on sustainability, media, technology, innovation, sports, reading, or inclusivity, contributes its own strengths while working toward a shared goal of improving our school community. This magazine offers a clear look at their plans, goals and roadmaps, giving you a sense of what each council stands for and what they hope to achieve in the months ahead.

Vision and Mission

Our Vision

To cultivate an inclusive student community that collaborates openly on software, hardware and creative digital solutions.

Our Mission

To empower student creators to teach and share open-source projects on GitHub, while helping beginners learn, collaborate and build resume-ready tech.

Our Approach

To combine interactive workshops with peer mentorship and open code sharing on GitHub, making technology accessible and practical for every student.

Working together

The Innovation & Technology Council collaborates across our school to unite junior and senior students, explore tech and build a community where everyone can innovate.







The rollout

We drive innovation through peer-led workshops, open GitHub collaboration, and prestigious competitions like First LEGO League (FLL), F1 in Schools, AI Imagine Cup, and our flagship event, Tech Fest. Students across all grade levels unite to solve challenges, program hardware, and showcase real-world technology projects for our entire school community.



https://github.com/opensource-iis

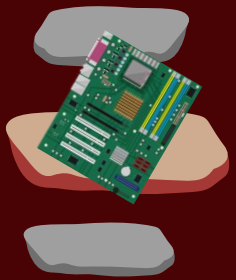
GitHub is our shared hub for student innovation and workshops. Access workshop resources and session guides here, or host and collaborate on your own hardware and software projects to build a real open-source portfolio.

Roadmap

Our schedule for the upcoming academic year is designed to keep the momentum going with hands-on events and milestones.



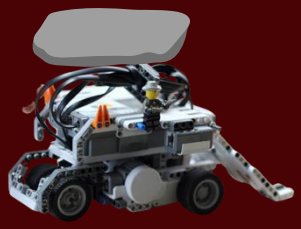
Student-led Workshops :
Hands-on technical sessions covering custom PCB design, personal web portfolios, game development, LLM AI chatbots, cybersecurity CTF challenges, and digital rights management.



Hackathons :
Interested students will be allowed to sign up for coding/technology related hackathons.



Tech Corner :
Fun tech activities like CAD, Robotics, Game Quizzes and many more hosted every day



Maker Showcases :
End-of-term exhibitions celebrating finished student builds, hardware, and open-source projects.



Collab Crew



IIS @ First Lego League 2025

Building on past success, our 2025 team delivered a foundational performance with precision SPIKE Prime coding and a robust mechanical chassis. Their dedication and systematic execution secured a commendable final standing, setting the stage for future innovation and technical growth.

IIS @ First Lego League 2026

Building on that momentum, our 2026 team advanced their systems with refined engineering, updated robot designs, and smooth field execution. Their collective problem-solving and dedication earned top recognition at the competition, continuing our school's tradition of innovation and team pride.





DIDI Project Design Space Competition 2025

Our design team tackled real-world challenges with innovative human-centered solutions and sharp creative thinking. Through iterative prototyping and collaborative problem-solving, students presented compelling design concepts that highlighted practical innovation and technical creativity.

AI Imagine Cup UAE

Our students developed and pitched forward-thinking artificial intelligence concepts to address pressing global issues. By combining technical knowledge with impactful ideas, the team earned recognition on a major regional stage, demonstrating incredible initiative and vision.



Here we are S.A.F.E.E

Student Advocates for Empowered Choices and Environment

Beyond Firewalls: Shaping a Culture of Digital Agency

True digital responsibility goes beyond rules and restrictions. It is about empowering students to feel confident, informed, and in control. From cybersecurity and ethical AI to digital wellbeing, it all connects to one core question.

How do we empower students to explore, create and connect in the digital world with confidence and integrity?

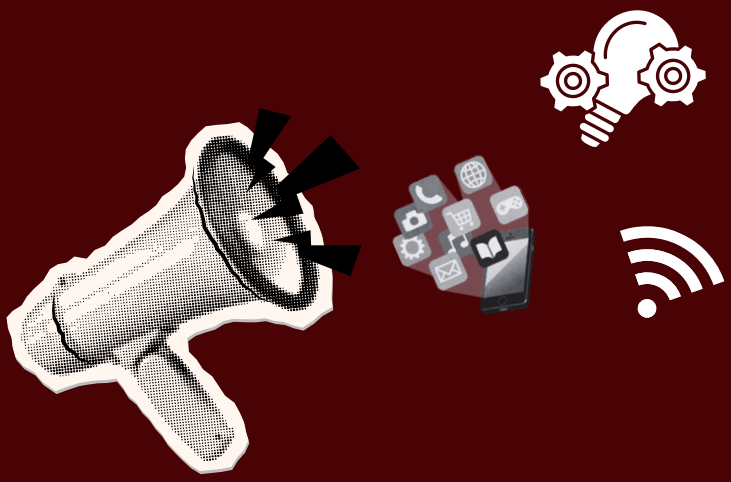
We shift from restriction to proactive empowerment, equipping students to protect data, navigate emerging tools and balance digital wellbeing. Our goal isn't limiting technology, but giving every student the agency to make smart, ethical choices online.

Technology empowers students to make informed choices by exposing misleading vaping trends and advertisements. Through digital literacy programs, videos, and awareness campaigns, students learn to recognize marketing tactics, resist peer pressure, and choose a healthy, vape-free lifestyle.



Digital Safety Begins with Daily Habits

A safe tech environment isn't created by policies alone; it is shaped by how we interact every day, in shared documents, code repositories, group chats and online platforms.
When students understand both the power and the responsibility of the technology they use, safety becomes second nature. It transforms from a list of precautions into a shared standard for how we innovate together.





That is the mission of S.A.F.E.E. in Tech, moving past basic rules to build a school culture where safe, ethical and conscious tech choices come naturally.

Did you know?

Tech Ithas of the UAE

UAE (Pioneering AI Leadership)

The UAE became the first country in the world to appoint a dedicated Minister of State for Artificial Intelligence, setting a global standard for integrating AI into education, government and daily life.

Innovative Bharath

India (Lunar Space Exploration)

With the successful Chandrayaan-3 mission, India became the first nation in history to safely land a spacecraft on the Moon's unexplored South Pole.

World Harmony Through Digitalization

Estonia (The First Digital Nation)

Estonia was the first country in the world to allow secure online voting in national elections and today over 99% of its public services are fully accessible online 24/7.

From our school to your home

H&S and Wellbeing Communication to parents

Promoting Healthy Digital Habits

We guide students to build balanced, healthy relationships with technology. By focusing on active creation rather than passive consumption, we encourage mindful screen time and digital wellness both in the classroom and at home.



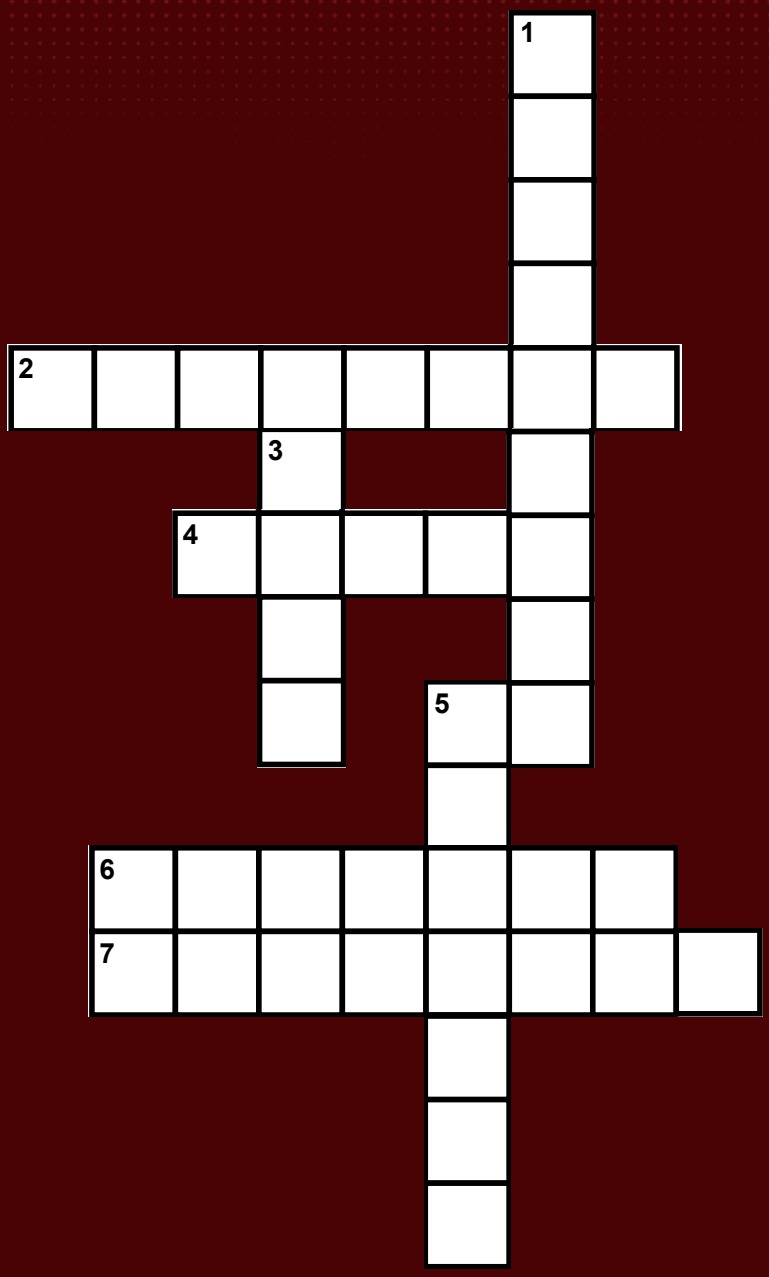
Fostering Independence & Self-Regulation

Through student-built schedule trackers, routine planners and productivity tools, children develop time-management and self-organization skills, supporting independence and a structured routine at home.

Supporting Family & Emotional Wellbeing

Student projects focus on positive tech solutions including personal wellness journals, habit tracking and family organization tools helping reduce daily stress and encouraging supportive, open communication at home.

Brain Buzz



ACROSS

2. Programs, applications, and operating systems that run on electronic devices.

4. A programmable machine designed to perform tasks automatically.

6. Using modern electronic technology rather than physical paper systems.

7. The physical, tangible parts of a computer or electronic system.

DOWN

1. A step-by-step set of rules or instructions followed by a computer to solve a problem.

3. Writing instructions in a programming language to build digital tools and applications.

5. A system of interconnected devices sharing data and resources with one another.

1)ALGORITHM 2)SOFTWARE 3)CODING 4)ROBOT 5)NETWORK 6)DIGITAL 7)HARDWARE

The Makers



The Team Behind This

This edition of the Innovation and Technology Council E-Magazine was made possible through the dedication and creativity of our Grade Representatives, whose ideas, teamwork and commitment helped bring every page to life. Together, we strive to promote kindness, empathy, belonging and meaningful connections across our school community.

With Gratitude

To every Grade Representative and contributor who dedicated their time, creativity and effort to this third edition, thank you for helping us create a magazine that celebrates every innovation and new technologies.

Special Thanks

Special Thanks to Ms. Divya Gangadharan and Ms. Vinaya K. for coordinating the e-magazine with the council, Ms. Manju Singh, Ms. Antara Sen, Ms. Suja Suresh and all the activity coordinators for your guidance and support to make this magazine come to life.

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Photographs from Mr.Mujeeb

True innovation goes beyond code and circuits; it builds bridges between cultures. As we use technology to empower our school community today, we lay the groundwork for global empathy, diversity, and deeper connection.

How can technology make meaningful cross-cultural connections a reality for everyone?

Stay tuned for Edition 4!





‘Knowledge is power’

