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Expanding the Horizons of Learning through Technology

India International School delivers high-quality learning through the effective integration of technology

India International School, based in Bangalore, India, in their endeavour to provide holistic value-based education to their students, integrated technology into their learning system and transformed their education delivery system - ultimately resulting in a positive impact in their overall education system.

Challenges
- Fostering better understanding of various concepts
- Shifting from a traditional model of direct instruction to student-centric learning
- Delivering global learning for a complete learning experience

Solutions
- India International School effectively integrated technology in their education system
- Empowering teachers with technology to deliver better learning experience

- Encouraging students to use PCs/laptops in the classroom

Results
- Enabled independent, skill-based, interactive and collaborative learning for students
- Increased the quality of teaching through the effective utilization of technology by teachers
- Succeeded in providing a globally connected learning environment for students

> " Technology advancement is helping the students in the school to learn in a better way. Students are very happy and they have taken to technology very nicely and are sharing their experience with one and all. "
>
> **M Krishna**
> Chairman,
> India International School

INDIA INTERNATIONAL SCHOOL

C0-Educational Residential School
ICSE Integrated with International Curriculum

Shifting from Conventional Learning to Technology-based Learning

Information and technology are essential for any school to deliver an effective and inclusive learning environment and prepare students for a bright future. There is an urgent need to move away from the traditional model of direct instruction and shift to a student-centred learning system – achievable through the effective use of technology. Students should be taught to investigate on their own to prove their hypotheses, go deeper into the topic they are interested in, learn to work as a team, and, above all, generate and acquire new knowledge.

Equally important is that teachers have the freedom to focus on teaching while monitoring student progress and accelerating education outcomes. Overall, there is a need for an inclusive education system that improves the learning experience for students, parents, teachers and schools.

India International School – Embracing Technology, Delivering High-Quality Learning

Understanding the value and significance of inculcating the best of education in their students, India International School adopted technology as a primary driving force in their education delivery system. The school made computers part of the education system through comprehensive implementation of technology.

Emphasizing on this, M Krishna, Chairman of the school said, "Technology advancement helps students learn in a better way, and in recognizing this we have integrated technology in the school, and it has been a great success. The school campus is Wi-Fi enabled and the school also has a server setup to deliver the best of education through technology."

With the help of Intel® processors powered desktops, laptops and servers, the school effectively integrated technology into the

> " Technology helps improve their higher order thinking, creativity, and prepare students for their future world and be a better workforce in tomorrow's world. "
>
> **Anushia Panchagati**
> Commerce Teacher,
> India International School

> " Being an international school, technology has really helped us in reaching out globally - utilizing the culture, their education system, taking all the positive points of other countries and incorporating in our school. "
>
> **Alka Gupta,**
> Principal,
> India International School

school environment and helped the students and teachers in many ways that include:

- Integrating curriculum with digital content - to facilitate seeking, accessing, and using of digital content from many sources
- Developing and assigning collaborative projects where students perform online research and analysis
- Using digital simulations to reinforce abstract concepts
- Helping perform data analysis and visually representing their findings
- Helping organize and manage courses, content and assessment

Empowering Teachers - Enabling Better Teaching

The teachers of India International School have greatly benefited from technology integration in the classroom. The teachers use technologies extensively to conduct research, develop lesson plans, present lessons, share multimedia resources, and administer tests. Acknowledging the importance of technology for teachers, Mansi Choudhury, an Accounts teacher in the school said, "Thanks to technology, teaching has become easy and it also has become enjoyable for me as well as the students. It has become very interesting for the students, so they also concentrate more and they enjoy their studies."

Technology also helps the teachers to deliver their lessons better and accelerate student learning. This is emphasized on by the Head of the Science Department, Suparna Arora, who says, "As a Science teacher, a lot of abstract concepts need to be taught to the students, some concepts like the different systems inside the body, the structure of the atom, etc. are very difficult for the students to visualize; but when I project those on the slides, they are able to get a very clear and concrete idea about the concepts. It makes learning

really interesting for them - there is more student involvement and participation." She further adds, "And not only these, it provides a hands-on experience for the students because in Science classes, the students have to visualize and through technology they get to know the real thing, the real environment. There are many experiments which they can do interactively through the use of technology, where they get a hands-on experience, and that in itself is a very big advantage, it provides a wider scope of learning for the students."

The use of technology has helped bring about a better equation between teachers and students in the school. Anushia Panchagati, a Commerce teacher in the school says, "The relationship between the teachers and the students has changed to such an extent that students personally feel responsible for their learning outcome and teachers act more as guides and facilitators than instructors."

Some of the key benefits the teachers of India International School are seeing in incorporating technology in education, are that it helps in:

- Delivering a better learning experience for the students
- Preparing lessons and managing classes
- Utilizing digital content in existing curriculum
- Creating and sharing content with students through digital mediums like social media, mails and blogs
- Managing the classroom via instructor-based broadcast of content
- Designing, integrating and organizing curriculum
- Maintaining a high degree of teacher-student interaction
- Assessing student performance, performing tests and creating reports
- Communicating effectively and frequently with students and parents

> " Technology is definitely an integral part of our education system because it gives more clarity, more understanding, and the experience that students have is much wider and much richer, so for us it is an essential thing that we use in our classrooms. "
>
> **Suparna Arora**
> Head, Department of Science,
> India International School

Enabling Student- Centric Learning with Technology

Technology helped the students of India International School broaden their horizons, become independent learners and enhance their learning skills. Technology has brought about a positive change in the way students learn in the school. The school's Accounts teacher says, "Earlier, we were using the primitive, old method of board and chalk, giving boring lectures, and learning was not interesting for the students, but now using digital content, learning has become visual-based and it has become enjoyable for the students." Alka Gupta, Principal of the school further adds, "Today children are very visual-oriented and using technology, we find that teaching visually can be very effective in the classroom."

Most importantly, learning is not restricted to the class anymore. With the help of technology, student learning continues even after the classes are over. Shamona, a student in the school says, "Earlier, I used to come to school and interact with the teacher and then go, now teachers are on social media too so I can talk to them there and they are always sending us homework or if we are absent, they have a way of connecting with the students." Suparna Arora, Head of the Science Department says, "Technology provides learning to the students not just in the classroom but even outside the classroom with the use of laptops, tablets, etc., and they can take it with them wherever they want. Through the internet they can access any kind of information they want at any point of time." The Principal also adds, "Today's classrooms can go beyond the class hours. For example, students, once they are out of the school, they can be still in touch with the teachers. They can ask for the assignments, log on and get lots of resources and information online. Students can get help from teachers at any time via mail or online collaboration."

Technology also helps the students in collaborative learning; not only with their classmates and friends, but also with their teachers and other students across the world. This can be better understood from what the Head of the Science Department says, "Normally in the classroom, students learn individually but through the internet and all these technologies, students do group study where they work in teams and groups for various projects, not only inside small groups but across various countries. In fact, we have done projects where four to five countries were involved. Children in different countries were working on the same project and they even shared, compared and analyzed their results – leading to a very varied and wide learning experience for the students. And that was one of the best experiences that we had as a part of a science project." The Principal further emphasized on this, saying, "We do lots of projects not only in India but also in collaboration with other schools abroad. It helps the children to know about other countries, its culture, their education, style of teaching and many other things."

With technology, students of India International School:

- Acquire a deep understanding of interrelated concepts and real-world systems, within and across subjects
- Perform research on the internet
- Access curriculum content localized for language and culture
- Solve complex, real-world problems
- Create and participate in student groups (local, national, and worldwide)
- Participate in discussions and exchange experiences
- Gain better understanding through visual learning
- Connect with teachers outside the class for constant learning
- Perform investigations and make reports, presentations and demonstrations

Solution Infrastructure

The e-learning environment for India International School is based on the Intel Learning Series. This package of hardware, software, services and support works reliably together and is delivered by the solution provider - Connoiseur Electronics Pvt. Ltd.

At the heart of the Intel Learning Series are Intel-powered Classmate PCs. The PCs include practical, education-oriented features that improve the learning experience for students, parents, teachers and schools. These features include:

- Lightweight, easy-to-carry design
- Rugged, drop-resistant construction, water-resistant keyboard
- Education-specific software
- Compatibility with existing content, applications and operating systems
- Theft deterrence

Intel® Learning Series Software Suite

The Intel® Learning Series Software Suite provides a collaborative, secure, enhanced and easy-to-use experience for:

- **Students:** Reading, writing, painting, drawing, and collaboration tools help students learn and improve core skills.
- **Teachers:** The classroom management application supports collaboration, group teaching, testing and file transfer for efficient organization and assessment.
- **IT Administrators:** The trusted platform module (TPM)-based hardware and software theft deterrence solution helps protect capital and operational investments.
- **Parents:** An access management application allows parents to set and monitor children's use of internet at home.

> " Working closely with Intel, we promote Classmate PC which is an exciting and cost-effective education solution designed & powered by Intel. The latest Classmate PCs can instantly switch from a clamshell mode to a touch-optimized tablet mode, giving students new flexibility and micro-mobility inside and outside the classroom. "
>
> **R P Harish Kumar**
> Director,
> Connoiseur Electronics Pvt. Ltd.

Students' Point of View

"Computers make my life easier. Before, I had to spend lots of time in finding information, but now with the help of the internet, I get access to information as fast as possible."

M. Jawal
Student,
India International School

"Computers help me stay connected with my teachers, since teachers are on social media too. And during my spare time, I can do more research and find information. The teachers also use computers to help us understand our lessons better."

Shamona
Student,
India International School

"When I wasn't using the PC before, studies were not that interesting, because with studies come a whole package of research to do and honestly that's really not that interesting, so now that I have a way to research at my fingertips it's much more interesting, especially in the classrooms."

Shruthi
Student,
India International School, Bangalore

Learn more about the Intel® Learning Series education solution:
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