



LORETO  
COLLEGE  
IN HOUSE JOURNAL



I.C.T. SOCIETY  
ELEVENTH EDITION  
2017-2018



CONNECT

**IMPACT ON**  
**LEARNING THROUGH**  
**TECHNOLOGY**

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### *Note from the Principal's Desk*

'Impact on Learning through Technology' has been aptly chosen as a theme for Connect 2018; herein fears of changes anticipated and hopes for teaching - learning are discussed by young authors of the college. Einstein once said that no problem can be solved from the same level of consciousness that created it. Current needs suggest that when one views the world through education with telescopic foresight and plans accordingly, a mandate one cannot ignore for the future in learning, the preparation is more tangible.

I congratulate Rashi Bothra and Mrityika Chatterjee, the ICT Society President and Vice-President, respectively, Ms.Chandrani Sengupta, Mrs. Saberi Goswami and Dr. Soumya Dutta, the Staff Advisors on this issue of Connect.

*Sr. Christine Coutinho*

*Principal*

### *Note from the Staff Advisors' Desk*

Presently we are living in the age of technology. Technology is impacting our everyday life. It is changing the way we perceive things. The ease of operation that we are witnessing now in various fields is due to technological advancement. Education across the globe is becoming more and more reliant on technology to maximize the learning outcome on students. Use of technology in education helps in engaging the students better. It provides hands-on learning opportunities which can be made an integral part of the curriculum. Technology as a tool can facilitate the teaching-learning process. Classroom instruction can be augmented with the help of technology. Better collaborative effort on the part of the students on educational projects can be achieved with the help of technology. Rapid distribution of information is facilitated by technology. Physical libraries are increasingly being replaced by digital libraries. In the coming days, innovative technological facilities are going to transform the way education is delivered and perceived.

This issue of ICT society journal tries to understand the extent to which technology is having an impact on education and how it can transform the way we look at education in the coming days. I would like to thank our Principal, Sister Christine Coutinho for her continuous support. The efforts of the Society president, Rashi Bothra, Vice President Mrityika Chatterjee and Treasurer Prarthita Ghosh merits special mention.

*Ms. Chandrani Sengupta*

*Mrs. Saberi Goswami*

*Dr. Soumya Dutta*

### *Note from the Editors' Desk*

The Information, Communication and Technology Society or ICT Society has always aimed at the utilisation of technology for the betterment of education. There are very few fields of education that are not influenced or enhanced by technology today. Technology not only makes knowledge easily accessible but it also makes the teaching-learning process more efficient.

The topic for the ICT Society Journal 2017-18 is "Impact on Learning through Technology." We feel that this topic is deeply relevant to an educational institution like ours where students are encouraged to stay abreast of recent developments in the field of education. We would like to thank our Principal, Sr. Christine Coutinho and our Staff Advisors, Ms. Chandrani Sengupta, Mrs. Saberi Goswami and Mr. Soumya Dutta for their continued support and guidance. We hope that this issue of the journal will be as enlightening for our readers as it has been for us.

**PRESIDENT:** *Rashi Bothra*

**VICE – PRESIDENT:** *Mrityika Chatterjee*

**TREASURER:** *Prarthita Ghosh*

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# *The Impact of Technology on the Education of the Visually-Impaired in India*

A slight delve into Indian mythology and ancient Vedic literature unravels the tendency towards a villainous portrayal of characters with disability.

Shakuni, the limping uncle is depicted as the most scheming and treacherous character in the entire plot of Mahabharata. The readers are convinced of the impotence of the visually impaired Dhritarashtra, who loses his right to the throne to his younger brother Pandu, contrary to the prevalent practice of the eldest son being the potential heir.

The current scenario is however, different. The 16<sup>th</sup> and 17<sup>th</sup> century has witnessed a noteworthy evolution of the differently-abled community, from being mere charitable entities to the present day focus on granting and protection of rights.

The Persons with Disabilities Act, 1995 claims to ensure equal opportunities to individuals with disability including right to protection and full participation.

The aforementioned Act, also renders it mandatory for 1% of jobs to be reserved in the Government and public sector for the specially-abled.

But unfortunately, we are yet to reach a state where public places, offices and institutions are constructed to enable universal access, keeping in mind the needs of the differently-abled.

The Central Government defines visual impairment as a condition in which a person suffers from any of the following:

- Total absence of sight
- Visual acuity not exceeding 6/60
- 20/200 in the better eye with correcting lenses
- Limitation of visual field, with the angle subtending to 20 degrees

There are several specialized institutions across the country, catering to the needs of children with varying degrees of visual impairment. They make use of Braille as the chief method of instruction. Additionally, students also undergo training to enhance their bodily awareness as well as spatial consciousness within the portals of these institutions. The advancement of technology has also facilitated widespread use of several kinds of interactive software while instructing students.

However, there still remains the need for a comprehensive body of well-directed legislation in order to enable the differently-abled community to come into the mainstream of professional life. This can be achieved through educating the different corporate sectors and educational institutions by means of awareness campaigns via mass media. Efforts should be made to sensitize the masses regarding the kind of challenges faced by the visually impaired on a day to day basis, along with subsequent development of infrastructure aimed at the upliftment and socio-economic advancement of the nation as a whole.

The main barrier to the establishment of an all-inclusive and sensitive work environment lies in the lack of information concerning disability. Moreover, there appears to be a fear element associated with the unknown. Anything that is not main stream tends to be discriminated against. Hence, the secret lies in addressing the issue at its roots—namely

educating the different strata of society concerning the various needs of the visually disabled.

On the brighter side, there are several organizations working tirelessly towards the empowerment of the disability sector, The Indian Association for the Blind (IAB) being one of them. The IAB aims to provide specialized training and placements for the visually challenged. They also strive to promote English Language proficiency and computer literacy among students.

Their unceasing hard work paired with a strong desire to make a difference, bore fruit and currently 750 IAB alumni are placed in key positions in several fields such as Banking, Education and Information Technology. Several BPOs have hired such candidates who provide valuable Tech support to impressive clientele such as Tata Docomo ,Sun Direct and Infosys, to name a few. Enable India is another such agency committed to identifying employer needs and placing students on the basis of skill and capability.

Among the many feats of achievement won by the visually-disabled community, a special mention should be made of 42-year-old Beno.

Being born with complete visual impairment did not deter her from going after her dreams. Having moved past her dependence on Braille, she went on to using a software known as Job Access With Speech (JAWS) which enables individuals with visual impairment to read from computer screen. After completing her PHD in English Literature, she went on to clear The Indian Foreign Service Examinations at one go. Winning accolades for her extraordinary mettle from across the world, she compelled The Ministry of External affairs to reform legislations ( Since no person with complete absence of vision had been placed in the above mentioned position before her. It had only been given to Candidates with limited eyesight)

Ever since the news of her achievement spread, she has become a known face in the various schools and colleges across the country. She has been going places providing motivational lectures, attending meets and press conferences representing her community, helping them to break through the shackles of social oppression and discrimination meted out to them on a regular basis

Likewise, there are a million Benos, who possess immense potential and are equally passionate and dedicated to their cause. They are individuals with a wide range of abilities, capable of excelling in their areas of expertise if provided with the appropriate resources.

A lot has been done, but at the same time a lot remains to be done, to be able to supplement for the inadequacies.

Finally, in the words of Swami Vivekananda - “A child is only as disabled as their environment, and the beliefs of people around them.” Hence, as long as there is hope, there is scope.

*Somdatta Chattopadhyay*

*Psychology (Honours) 3<sup>rd</sup> Year*

## *Best thing since Sliced Bread?*

The height that technology has helped us achieve in the past few years has been pretty unimaginable. Our ancestors would probably gape at what we're able to achieve without moving an inch. Who could have thought of being able to wish for something and have it delivered right at your doorstep without setting one foot outside or having to speak to even one person? How about being able to access all your files anywhere and everywhere with close to no baggage?

They say that if economists were laid end to end, they still wouldn't reach a conclusion. While this might be funnily true in many cases, I think the one area they would agree upon would be the positive impact of technology on the economy. It is known that the mere existence of raw materials is not going to do wonders in itself. They need to be combined in a particular manner to yield optimum output. That is where technology comes in. It offers new, better ideas and techniques which lead to optimum and efficient allocation and utilization of scarce resources. Say, if you were able to produce 100 bottles of juice per day while having to manually fill each bottle with the drink, now an improvement in technology allows you to produce 700 bottles per day because a specialized machine fills the bottles for you. So the net result is a rise in what is known as productivity. This greater productivity in turn raises national output and income thereby acting as a stimulant for economic growth. Sometimes these technologies also help in cutting production costs which translate into lower prices for the consumer and investment in R&D for the purpose of technological innovation often yields substantial gains.

Here it would be useful to talk about Information and Communication Technology (ICT) in particular which has gained much momentum in recent years. It encompasses the sphere of the internet as well as telecommunication such as landline network and wireless connections. It no doubt has made a huge impact on the way businesses function with a number of them opting to maintain a strong online presence. Some of them are solely dependent on the web. This revolution of sorts has made the access to information so much easier. Sitting at home one can accomplish what earlier required a number of trips to various locations. The idea of a 'Cashless Economy' doesn't seem very far-fetched now, does it?

ICT is a tool that has immense potential in the field of education and learning. Education is perhaps one of the crucial determinants of productivity (other than health) because it results in the formation and development of human capital. Nobel Laureate Professor Amartya K. Sen in his 'Capabilities Approach' highlights how a good, sound, broad and deep education results in developing human capability which is important for the economy in the long-run. ICT adds a whole new dimension to traditional classroom teaching. Agreed that there is no substitute for the conventional method which does have its own merit of classroom discussions and person-to-person interaction, a healthy mix of the two methods shall result in the best possible outcome. Classes can be made more interesting by involving creative presentations, documentaries and videos. It could help in replacing the existing system of rote learning with application-based learning which equips the students with greater understanding and skills.

*Sanjana Gopal*

*Economics (Honours) 3rd Year*

## *Impact on Politics through Technology*

In 1968, William T. R. Fox implied that “nothing very useful” can be said about the relations between science and politics. In the decades since, a paradigm shift has taken place in research into the politics of science and technology. Scholarship has increasingly challenged the idea that science and technology are best explained by their own internal logic and momentum and, therefore, amenable neither to social nor political analysis.

Even with the help of technology, the political candidates have ample opportunity to directly contact with the constituents and express their views and this happens with the aid of popular social media elements such as -Facebook and twitter. Also blog writing and podcasting has helped or rather have given the scope to the so called political pundits to gain and acquire votes and also funds. Loads and loads of votes. In the 2008 U.S. presidential campaign, the Obama campaign’s use of Facebook, YouTube and Twitter were widely credited with helping secure the historic victory of President Barack Obama. While this may have been the most publicized use of social media in politics, it certainly wasn’t the first time that technology and social platforms found their way into the US political realm. The Internet enables citizen participation, giving people a platform to mobilize and voice their opinions, holds politicians accountable and in a larger context, even improves human rights. Information technology tools are influencing political events and revolutionizing political processes all across the globe, in both developed and developing nations alike.

Technology makes the way of research process quite smooth. Prior to the discovery of advanced technology and also fast moving life, there were materials available on papers. There were gargantuan topics in enormous books. Searching books and finding out the topic is quite a prolonged process. But now it is not so. The situation is completely different in this respect. Now, searches or researches can be conducted rapidly through technological advances, and when the search engine is there, there is supposedly no problem prevailing.

When in need of smart classes or to be said when there's urgent need for grasping the core of the matter, technology serves us or provides us with YouTube which makes concepts clear and helps us to learn things in a more practical manner.

Technology has made life faster, easier and smoother. Technology has also provided us with E-mail facility where one can send their respective appeals to respective figures of society. Housley claims that whether we acknowledge it or not, technology is a deciding factor in most political races.

Thus lastly it could be concluded by stating that; Technology appeals to a specific demographic: the affluent, the educated, and the young.

*Gloria Poulami Singh*

*Political Science (Honours) 2nd Year*

## *Literature and Technology*

Technology has the ability to attract and engage students. It has helped to globalise education by connecting the world. Today education is dynamic, interactive, experience and activity based. As such technology has secured an important place in today's classroom and curriculum. As a student of English it's impossible for me to imagine studies without using technology.

The Internet has provided us with a vast platform where there are many online websites dedicated to helping students understand their texts. For example Sparknotes provides line by line translation of Shakespeare's plays. We can also find many critical essays by prominent critics which serve as valuable reference material for our answers. Websites like Project Gutenberg which are solely dedicated to help us get free e-books which may not be easily found in libraries. As an avid reader who literally devours books at an alarming rate I cannot even begin to stress the necessity of these free online sites.

Apps like Wattpad provide us with a global platform where we can read stories written by others and share our own creations. Many students use online blogs to serve as an outlet for their creative endeavours where one can share ideas, poems, write ups, stories and photographs. While it is imperative for an English student to write and express her ideas clearly, it is more important for her to speak correct fluent English. To this end I have found online videos to be extremely useful. There are YouTube channels like 'English with Lucy' which have videos that tell students how to pronounce words correctly, expand their vocabulary and finally speak with confidence. Lastly by watching the movie adaptations of the texts like Pride and Prejudice, Macbeth really helps us to remember the important speeches, quotes and enlivens the plot.

Technology has permeated every aspect of our lives, so in keeping with the time education has to incorporate technology to remain relevant. The internet is a vast storehouse of knowledge and for those interested in learning information is just a click away. All anyone has to do is reach out and take it.

*Srishti Pathak*

*English (Honours) 2nd Year*

## *Poems*

Advancing with time, developed our mind,  
Goodness of technology is what we've to find.  
Realms are many, where tech makes way,  
The wand of upliftment, it's got to sway.  
One of the many, is education,  
Holistic grooming is all its manifestation.  
This being one makes optimum use,  
The tech-savvy world is now its muse.

*Subhangi Ray*

*History (Honours) 1st Year*

Computers are good and laptops handy,  
Technology is there in every sphere of a student's life  
He clicks to select and long presses to choose the thing that suits his eyes the best,  
He has wisdom and knows what to do  
But now that comes doubly blessed with no need to erase and write till his hands fall off  
A wilderness of knowledge and a hyperlink to bridge the worlds of pages that might break  
sometimes or take time to connect again,  
But that is so easy for he's a student full of expectations and disappointments as young as  
he is.  
Overwhelmed by system errors and in academics, restless to reboot his device and IQ(S)  
again!

*Aankhi Sarbadhikary*

*Political Science (Honours) 1st Year*

## *Digitalisation Destroys Creativity*

Digitalisation means use of modern technology. I would start by saying that like everything has its pros and cons, no one is free from fault, like coin has two facets; similarly digitalisation has its own pros and cons.

In modern time we can't imagine life without digitalisation. Digitalisation on one hand has made our life easier. Now we can get information very easily by clicking only one button. We can now get any advancement any discoveries in the field of science and technology, medicine, space technology, very easily. In the past it was very difficult to get any information easily, at that time people had to refer many books, magazines, newspapers to get the whole information. It was time consuming process. But now digitalization had made its very easy to get any information easily. Also every government is trying to digitalise his country, to diminish the corruption. Now the advancement of digital gadgets and getting internet at lower cost have become the ray of hope for poor people. THERE was a time when poor people considered themselves that they can't become Doctor, Engineer, officers etc, are now started to see big dreams because of revolution in the age of digitalization. Now these people are getting a lot of knowledge from internet, Google, YouTube and other website as well.

Like everything in this world has pros and cons similarly digitalization is not devoid of cons. It has many cons as well. As I said earlier that by clicking only one button we can get a lot of knowledge on any topic, but we must think that we can get many bad knowledge as well. Especially it has become curse for students. Students who are the future of any country are now remaining stuck with digital gadget and as students are the most immature people so they always watch bad things. So I would conclude by saying that it's depend on us that how we are using modern digital gadgets, in this world nothing is so called bad things. It depends on the aspect of people seeing these things from many angles.

*Sweta Singh Rathor*

*Political Science (Honours) 1st Year*

## *Impact of Technology on English*

Technology has vivid and efficient impact on English also, a magnificent, wide and broad subject.

Starting from toddlers, the learning scenario has gone far away, more advanced and more technological. So, instead of teaching the infants from the books, the Basic English alphabets, words, framing sentences are easily taught from the smart boards. Like this the little people are more enthusiastic and more eager to learn new things.

In fact, this is very true that, if instead of being book worms and extremely devoted for learning from books, the actual application of technology creates more power and interest for learning, visual power is very effective. We can explore, experience and learn in a new way if we take up technology as a new and advanced and regular tool for learning.

The amount of zeal and response that can be craved out of the toddlers and little children through learning via technology, are more significant and effective than only just lectures, dictations and notes.

Then, the explanation of various poems, stories, novels with animation, pictures, flowchart, etc., helps a student to grab and flow into the lesson vigorously. Through such technological advancements, literature can be taught and learnt in a very exciting way.

Solving grammar, checking out the correct spellings, etc. are also very helpful to a great extent. Teachers, professors can make power point presentations on a specific topic and can teach the students accordingly.

Therefore, the impact of learning is very beneficial through technology. If we can use technology in a positive, good and effective manner, we can actually rise to great heights.

*Sharmistha Dey*

*English (Honours) 1st Year*

## *Technology and Teaching*

With technology, educators, students and parents have a variety of learning tools at the fingertips. Here are some of the ways in which technology improves education over time:

- Teachers can collaborate to share their ideas and resources online: They can communicate with others across the world in an instant, meet the shortcomings of their work, refine it and provide their students with the best. This approach definitely enhances the practice of teaching.
- Students can develop valuable research skills at a young age: Technology gives students immediate access to an abundance of quality information which leads to learning at much quicker rates than before.
- Students and teachers have access to an expanse of material: There are plenty of resourceful, credible websites available on the Internet that both teachers and students can utilize. The Internet also provides a variety of knowledge and doesn't limit students to one person's opinion.
- Online learning is now an equally credible option: Face-to-face interaction is huge, especially in the younger years, but some students work better when they can go at their own pace. Online education is now accredited and has changed the way we view education.

*Rabia Zaman*

*Political Science (Honours) 1st Year*

# *Impact on Learning through Technology*

Education and learning, to the society, is what bricks and cement is to a building. It's imperative to realise one thing. Channelizing our efforts to attain knowledge is what leads to the youth getting enriched. That is where the role of technology in learning finds significance.

Education is dependent on technology. We can safely infer that technological advancements have changed the dimension and approach towards education. From studying just the climatic disturbances to studying the ways to counter, from knowing the theories to their implementation, this journey has been steered by technology. Wikipedia results at the blink of an eye, YouTube videos to consult are some of the commonest of examples one can think of. Apart from this, research literature throughout the past decade has shown that technology can enhance literacy development, impact language acquisition, provide greater access to information, support learning, motivate students, and enhance their self-esteem.

A more definitive approach towards understanding its role in assisting teacher-student interaction and learning as whole, leads us to look at four premier examples.

## SUPPLEMENTAL TEACHING TOOL

Interactive presentation tools, video clips, graphics and other audio visual elements are a simple way to keep students actively engaged in lessons, as well as a means to keep your lessons fresh.

## MOTIVATE STUDENTS TO LEARN

Technology in the classroom allows students to take greater control of their education because tools like tablets and laptops encourage interactive, hands-on learning.

## STUDENTS CAN LEARN AT THEIR OWN PACE

It's simple; no child is the same. Every student learns at his or her own pace. There are many ways that integrating technology into the classroom can help students learn at a rate that is comfortable to them, and that allows them to retain information.

## ADDITIONAL RESOURCES FOR STUDENTS

Educational apps, search engines, videos, portable technologies and interactive activities provide students with a nearly endless supply of information and resources.

As we move further up the stairs of the educational system, our approach and methodology of acquiring knowledge changes. But what remains constant amidst the change is the reliance on technology and the way of utilising it to the maximum, which actually gives us the cutting edge in this competitive world.

*Ashmita Ganguly*

*Psychology (Honours) 1st Year*

## *How important is Technology in Education?*

There are countless reasons why technology is a key aspect of learning in the schools. Whether we like it or not, technology is everywhere; and in order for our students to survive in post-secondary education and the business world, they must know technology.

### **Kids are the digital native.**

Kids know technology better than most adults. It has become the easiest way they learn, because it is such an integral part of their life. Engaging with technology in the classroom has not only helped them learn better, but they also acquire multi-tasking skills. At this day in age, they hardly know how to learn without it. This knowledge is important, because they would be way behind in the real world without it.

### **With technology, there are no limitations.**

Having access to other information outside of the book gives students many different ways to learn a concept. Teachers can come up with creative ways to teach their students that keeps them engaged. Technology has changed the learning environment so that learning is more hands-on. Schools throughout the nation are diverse in income, and often kids don't always get the resources they need. The implementation of technology in schools helps close that gap

### **Multitude of resources**

Computers, tablets, and other forms of technology bring multiple resources for the teacher that's not in the book. They not only keep students engaged with exciting new features and apps, but also have other ways to teach students material. Every kid learns differently, and technology helps with this gap as well.

*Dimple Goyal*

*Political Science (Honours) 1st Year*

## *Technology cannot replace Teacher*

“Teachers will not be replaced by technology, but teachers who do not use technology will be replaced by those who do.” – Hari Krishna Arya, India

No matter how advanced or smart a computer program or a product is, it can never come close to the knowledge and life experience a teacher brings. Several researches have been conducted and it has been proven time and again that teachers bring about a change which no technology can. A teacher simply does not impart knowledge or information. And teaching is definitely not about facts and figures. **A teacher leads, guides, facilitates and mentors a student.** They are role models who set an example to students and drive them towards a brighter future. A good teacher encourages independent thoughts and independent learning. He/she can be a positive influence, can be an inspiration to set and achieve goals. The trust and bond between a teacher and student creates the perfect learning environment; which can never be achieved through **technology plays a supporting role, but it's the teacher who brings it all together.** Technology is certainly changing the way students learn, but it cannot be termed as a replacement for teachers. High-quality teachers create a classroom culture that motivates students and leads them on the path of success. Technology cannot inspire, help them through their struggles, help them fight back and stand up. Yes! Technology can only be a helping factor to learn, but it cannot replace the knowledge and experience that come with a teacher. So, the future of education as believed by several institutes, including Abu Dhabi Education Council (ADEC) and Early Years Foundation Stage (EYFS) will not be teachers versus technology, but it will be teachers plus technology. And as long as the balance is maintained we can expect an education system that not only promotes learning, but also opens doors to creative freedom and expression.

*Queen Chattopadhyay*

*Political Science (Honours) 1st Year*

# *What is the Future of Technology in Education?*

So what is the future?

Forget devices, the future of education technology is all about the cloud and anywhere access. In the future, teaching and learning is going to be social. Schools need to embrace cloud technology to prepare for the future of learning, says Matt Britland.

The future is about access, anywhere learning and collaboration, both locally and globally. Teaching and learning is going to be social. For us, the future of technology in education is the cloud.

Teachers can use the cloud to set, collect and grade work online. Students will have instant access to grades, comments and work via a computer, smartphone or tablet.

This is where devices come in. All devices not matter which ones we will use in the future will need to access the cloud. Each student will have their own. Either a device specified by the school or one they have chosen to bring in themselves.

Thanks to the cloud and mobile devices, technology will be integrated into every part of school. Classrooms, games fields, gyms and school trips will all change. Whether offsite or on site the school, teachers, students and support staff will all be connected. With the cloud, the world will be our classroom. E-learning will change teaching and learning. Students can learn from anywhere and teachers can teach from anywhere.

The cloud can also encourage independent learning. Teachers could adopt a flipped classroom approach more often. Students will take ownership of their own learning. Teachers can put resources for students online for students to use. These could be videos, documents, audio podcasts or interactive images. All of these resources can be accessed via a student's computer, smartphone or tablet. As long as they have an internet connection either, they are good to go.

Students can also learn independently and in their own way. There is also a massive amount of resources online that students can find and use themselves, without the help of the teacher. Shared applications and documents on the cloud, such as Google Apps will allow for more social lessons.

What we must remember is that when schools adopt new technology and services, they must be evaluated. Staff will also need training. Any initiative is doomed to failure without well trained, confident staff that can see how technology can support and benefit teaching and learning.

Plenty of schools have already embraced this. Plus, services such as the educational social network Edmodo offer this for free. But there's still a way to go to ensure all schools are ready for the future of technology. It is time for all schools to embrace the cloud.

*Divya De*

*Political Science (Honours) 1st Year*

# *Educational Technology: Needs and Benefits*

Educational Technology has absolutely revolutionized the entire education system. Until recently, the teachers used to be the sole interpreter of knowledge to the learners and the textbooks the sole resource. Educational technology has affected the conventional roles and it has opened up the new areas of teacher functions such as management of resources and management of learning.

The impact of ICT on learning outcomes has been inconclusive, of improved results. Nonetheless there are outcomes that are conclusive, and which indirectly impact on learning outcomes. These include improvements in:

Engagement

Motivation

Independent learning

Parental engagement

Student and staff attendance and punctuality

Extending the children's learning time

Currently 13% of the 34 million classrooms globally have an interactive display, leaving a massive 87% without. Some concepts can be introduced, and slowly built on, without having to start with a complete radical change e.g. the flipped classroom. Take a broad approach to investment, considering both presentation style and collaborative style learning, and how the relevant devices communicate and interconnect. Consider the student's holistic learning experience, both in-class and at home and how these can feed into each other.

Twenty-first century teachers need to:

1. Develop proficiency with the tools of technology
2. Build relationships to pose and solve problems collaboratively and cross-culturally
3. Design and share information for global communities to meet a variety of purposes
4. Manage, analyze and synthesize multiple streams of simultaneous information
5. Create, critique, analyze, and evaluate multi-media texts
6. Attend to the ethical responsibilities required by these complex environments.

Technology helps students as:

- they like it better than paper and pen
- provides multimedia to address all learning styles
- provides interactive, student centered activities
- provides extra support and help resources

*Riddhi Das*

*Education (Honours) 1st Year*

# *Five ways Technology is improving Education*

## **1. Better Simulations and Models**

Digital simulations and models can help teachers explain concepts that are too big or too small, or processes that happen too quickly or too slowly to demonstrate in a physical classroom.

## **2. Global Learning**

At sites like Glovico.org, students can set up language lessons with a native speaker who lives in another country and attend the lessons via videoconferencing. Now, setting up a language exchange is as easy as making a videoconferencing call.

## **3. Probes and Sensors**

Collecting real-time data through probes and sensors has a wide range of educational applications.

## **4. Storytelling and Multimedia**

Asking children to learn through multimedia projects is not only an excellent form of project-based learning that teaches teamwork, but it's also a good way to motivate students who are excited to create something that their peers will see.

## **5. E-books**

E-books hold an unimaginable potential for innovating education, though as some schools have already discovered, not all of that potential has been realized yet.

*Rishika Sengupta*

*Political Science (Honours) 1st Year*

## *Students' need of Technology in the Classroom*

Technology is everywhere--entwined in almost every part of our culture. With mobile and other wireless devices like the lot becoming an increasing requirement across every industry today, it only makes sense that our schools and colleges are also effectively deploying mobile technology in the classroom.

### Five Reasons Why Students NEED Technology in the Classroom

- 1) Using technology in the classroom gives teachers and other faculty members the opportunity to develop their student's digital citizenship skills.
- 2) Combining new tech like VR (virtual reality) with traditional classroom instruction is one example of how the introduction of new technology can enhance the learning experience and create new opportunities.
- 3) When mobile technology is readily available and performing correctly in the classroom, students are able to access the most up-to-date information quicker and easier than ever before.
- 4) Technology helps students be more responsible. Owning your own device or borrowing the school's devices gives students the opportunity to improve their decision making skills as well as taking ownership of a valuable (and often times expensive) device.
- 5) Technology transforms the learning experience. Students have access to an incredible amount of new opportunities. From learning how to code to learning how to better collaborate across teams and with their instructors--technology empowers students to be more creative and be more connected.

If we are still debating on how technology can benefit the students, teachers and administrators, I hate to break it to you, but the future of education is already here and we're missing an unbelievable amount of opportunities.

*Jannaz Ahmed*

*Political Science 1st Year*

## *Uses of Educational Technology*

**1. Creating a Global Platform** - No longer confined to a single platform, education aided by technology has crossed borders and continents. Several institutions are now offering online courses that can be accessed by students across the globe.

**2. Efficient Assessment** - More and more institutions have now digitalized their assessment process. Students now take online tests that allow them to immediately assess their knowledge base.

**3. Improved Student-Teacher Interaction** - More and more teachers are now using technological aids to keep in touch with their students. Teachers remain in constant touch with their students through e-mails and services

**4. Instant Access to Information** - Information is now in the palm of our hand. No longer confined to textbooks, anyone can now have access to a gamut of information within seconds.

**5. E-books** - Online libraries and e-books are now in vogue. For example, Google has been working with publishers and libraries to create an online library that is comprehensive, versatile and virtual.

**6. Video Games** - Simulating real life problems, video games can bring about behavioural changes in the students by making them more goal-oriented.

**7. Use of Multimedia** - Use of animation, videos, multimedia aids has transformed traditional learning methods by making it more engaging, fun and entertaining.

**8. Educational Mobile Applications** - M-learning or mobile learning is the newest avatar of modern education. A large number of mobile applications have already become popular means of education because of their innovative take on traditional learning methods.

**9. Addressing Students' Diversity** - An assortment of various educational tools, audio/visual stimulus and animations, e-learning modules appeal to students with different learning styles. Some students do not respond to classroom learning which has often been termed as 'boring' and 'unimaginative'.

**10. Students with Special Needs** - It has been observed that students with special needs do not respond to traditional classroom environment. Keeping them in mind, a number of mobile applications have come up in the market that seek to initiate such students into the mainstream by facilitating and enabling them with digital educational aids.

*Srijita Chakrabarti*

*Political Science (Honours) 1st Year*

## *Technology and its Effects in the Classroom*

The effects of technology in the classroom are related to both the teacher and the students. In the past classrooms were lecture driven. With technology involved in education, the students are more active in their learning. The teacher is no longer the center of attention. They play the role of a facilitator or guide of information and not so much of an information source. Technology in the classroom allows the students to be more active with the opportunity of communication of information. By being active the students are then more likely to generate their own choices on how to obtain, manipulate, or display information (Bridgforth). This gives students a higher confidence level.

Teachers reported students had an increase in motivation when using technology. Because of their willingness to work with technology as opposed to a normal classroom setting of boring lecture, helps motivate students to learn. Technology has the ability to enhance relationships between teachers and students. When teachers effectively integrate technology into subject areas, teachers grow into roles of adviser, content expert, and coach. Technology helps make teaching and learning more meaningful and fun.

Integrating *technology in education* helps students stay engaged. Most students today have been using mobile devices like tablets and smartphones to play and learn since they could crawl. So it only seems logical to align today's classrooms with the way that your students want and are used to learning. *Technology* is used for basic actions but can also make activities easier for students. Research shows when *technology* is integrated into the classroom students can benefit a great deal.

*Shannon Sarah Chatterton*

*Psychology (Honours) 1st Year*

## *Technology and Learning*

This generation of ‘digital natives’ has much lower need for libraries of physical content for example, the traditional resource used by students half a generation ago. Learning styles are changing and teachers need to adapt their teaching styles accordingly. Technology is everywhere in education: Public schools in the United States now provide at least one computer for every five students. The **use of technology in education** has removed educational boundaries, both students and teachers can collaborate in real time using advanced educational technologies.

Different types of educational software are designed to help students learn various subjects easier. Digital simulations and models can help teachers explain concepts that are too big or too small, or processes that happen too quickly or too slowly to demonstrate in a physical classroom. The Concord Consortium, a non-profit organization that develops technologies for math, science and engineering education, has been a leader in developing free, open source software that teachers can use to model concepts. Other simulations the organization is developing include software that allows students to experiment with virtual greenhouses in order to understand evolution, software that helps students understand the physics of energy efficiency by designing a model house, and simulations of how electrons interact with matter.

Technological tools like cell phones and internet give students an opportunity to learn by themselves. Students use interactive educational games and software to develop different academic skills. For example; Art and design students can use Photoshop software to learn different design and editing skills. Also the **use of cell phones** as educational tools encourages students to download educational podcasts which they can listen to while at home.

Recent advancements in educational technologies have yielded positive results in our education sector. This new educational technology is supporting both teaching and learning processes, technology has digitized classrooms through digital learning tools like, computers, iPads, smartphones, smart digital white boards; it has expanded course offerings, it has increased student’s engagement and motivation towards learning.

*Zara Simal*

*Political Science (Honours) 1st Year*

## *Teachers or Technology*

"A teacher takes a hand, opens a mind and touches a heart."

"A good teacher is like a candle, it consumes itself to light others."

The immense quality and contribution of the teachers are indeed very vital and are of utmost importance.

Not from the perspective of a war of words on the topic Teachers Or Technology but from the elegant touch of a teacher's essence and teaching, Technology makes us modern, advanced, tech- Savvy but Teachers actually touch the core of our heart. The opulent, sumptuous rapport that are created with them, are splendid and worthwhile.

It is indeed true and glorious that technology has taken us far ahead, almost everything is at our fingertips and just a click away, but effective, gradual and blissful teaching and explanation that these precious human beings gift us are really effective. Hundred times they will make us understand our lessons if we are unable to comprehend anything, several times they may rebuke us but they will leave no stones unturned to make us ideal people. The interaction, face to face conversations are really essential. Learning must be a two way process.

"Technology is just a tool."

*Sharmistha Dey*

*English (Honours) 1st Year*

# Posters 1



Creativity is simply the ability to create solutions out of thin air. All you need is a powerful sense of imagination. And that's one thing every child has, until schools kill it.



Education has only one purpose. Equip the young for tomorrow.

Ten thousand years ago, this meant hunting or farming. But in today's concrete jungle, things have changed.

There is only one variable that can solve the problems of tomorrow.

*Priti Verma*

*History (Honours) 1st Year*

## Posters 2



*Aishwarya Balakrishnan*  
*History (Honours) 1st Year*



*Monami Bhattacharya*  
*Geography (Honours) 1st Year*

## *Did You Know?*

- 50% of students, aged 10 to 18 go online for homework help at least once a week.
- 75% of students, aged 5-7 regularly use technology to play educational games.
- Students who study on mobile devices spend 40 minutes more per week studying than those who don't.
- Students who study on mobile devices spend 40 minutes more per week studying than those who don't
- 91% of administrators say effective use of ed tech is critical to their mission of high student achievement
- 74% of administrators say digital content in schools increases student engagement.
- 77% of teachers say technology use in the classroom motivates students to learn.
- 76% of teachers say technology allows them to respond to a variety of learning styles.

*Shivangi Sen*

*History (Honours) 1st Year*



*"Technology will never replace great teachers, but technology in the hands of great teachers is transformational."*

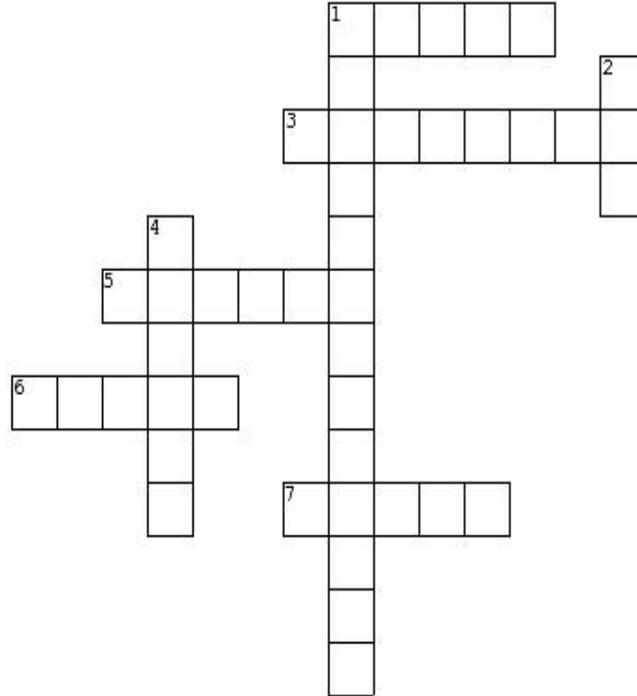
**Isn't it Amazing!??**

1. 2/3 of kids start using digital learning materials at home by the age of 5.
2. 75% of teachers believe digital learning content will replace printed textbooks within the next 10 years.
3. 50% of students who played educational games during the summer did so because it was recommended by their teachers.

*Audhija Gupta*

*History (Honours) 1st Year*

# Crossword Puzzle



## Across

1. Not a database management software
3. Firewall in computer is used for \_\_\_\_
5. First Internet Search Engine
6. MAC Operating System was developed by this Company
7. Part of a Database holding only one type of information.

## Down

1. First Computer Virus
2. Company established in 2015 by the Telecom Operator JIO
4. Programming Language for Artificial Intelligence

*Sharmistha Dey*

*English (Honours) 1st Year*

## *Word Grid*

C	Z	B	I	R	U	O	T	G	Y	Q	T
I	N	T	E	R	N	E	T	S	D	S	F
L	B	T	V	Q	G	I	M	W	R	O	L
I	L	L	E	J	K	H	O	Y	N	J	U
Z	Y	E	S	Q	L	V	U	E	Q	T	Q
O	N	C	T	X	Q	E	S	V	R	V	O
T	E	C	H	N	O	L	E	G	Y	D	K
I	E	X	E	D	U	C	A	T	I	O	N
A	H	G	M	W	B	I	X	K	L	J	Q
C	U	S	B	L	S	H	U	W	I	R	E
E	R	T	Q	N	C	V	Z	Y	O	D	I
F	W	M	S	Z	V	B	F	C	L	B	D

*Ayushi Basu*

*Geography (Honours) 1st Year*

# Tech Picture Quiz

1. IDENTIFY THE LOGO



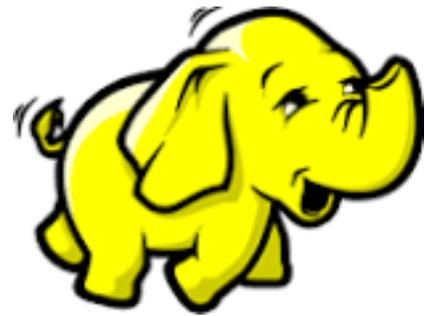
2. NAME THIS MAN



3. NAME OF THE KEYBOARD



4. NAME IT



5. NAME ALL THE BROWSERS



*Sharmistha Dey*

*English (Honours) 1st Year*

## *Quiz 1*

- Q1. Which of the following is used to represent alphanumeric characters in Computers?  
A. ASCII  
B. EBCDIC  
C. BCD
- Q2. If you want to translate digital codes to audio signals and vice versa, your computer needs a  
A. Sound card  
B. CD-Rom  
C. Scanner
- Q3. Which of the following represents the memory types in decreasing order of their accessing speed?  
A. RAM, ROM, Cache, Magnetic tape, Hard disk  
B. Cache, RAM, ROM, Hard disk, Magnetic tape  
C. Magnetic tape, Hard disk, RAM, ROM, Cache
- Q4. What is a Codec most commonly used for?  
A. Decoding passwords  
B. Decoding audio/video stream  
C. Encrypting data  
D. Saving contact information
- Q5. What would you use to connect two sites to each other so that they can access files/printers as if they were in local building location?  
A. VPN  
B. Tracert  
C. Ping  
D. CMD

*Pragyapriya Mandal*

*Psychology (Honours) 1st Year*

## *Quiz 2*

Q1. He introduced a technology of instruction by which was really innovative in presenting materials in the scholastic field.

- A. Jean Jacques Rousseau
- B. Pierre Abelard
- C. John Locke
- D. Edgar Dale
- E. Plato and Socrates

Q2. He wrote on a programmed learning through a machine which tested and confirmed a learning task.

- A. Rousseau
- B. Pressey
- C. Locke
- D. Pestalozzi
- E. Montessori

Q3. In what year educational films were used as an educational media.

- A. 1926
- B. 1994
- C. 1594
- D. 2012
- E. 2011

Q4. What is ICT?

- A. Information technology
- B. Information and technology
- C. Information and Communication Technology
- D. Integration of communicative teaching

Q5. The main goal of educational technology is

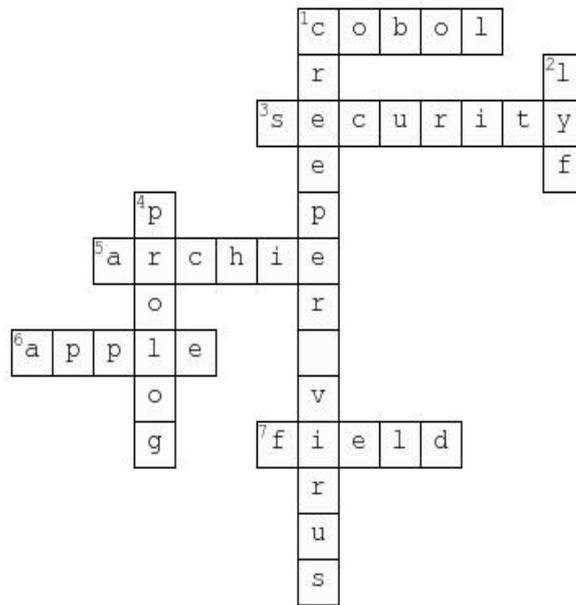
- A. Promoting computer skills
- B. Involve a deeper understanding of the computer
- C. Enhance teaching and learning through technology integration
- D. Using information technology in the classroom

*Muskaan Surana*

*Psychology (Honours) 1st Year*

# Solutions 1

## CROSSWORD PUZZLE



## TECH PICTURE QUIZ SOLUTION

1. Tesla
2. Brian Acton
3. LED keyboard
4. Hadoop
5. Internet Explorer, Opera, Safari, Mozilla Firefox, Netscape and Google Chrome

# *Solutions 2*

## **WORD GRID SOLUTION**

1. Internet
2. USB
3. Wire
4. Education
5. Mouse
6. Technology

## **QUIZ1 SOLUTION**

- Q1. A
- Q2. A
- Q3. B
- Q4. B
- Q5. A

## **QUIZ2 SOLUTION**

- Q1. B
- Q2. A
- Q3. A
- Q4. C
- Q5. C

# *Acknowledgements*

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