MARIA REGINA ANGELORUM

CRUCI DUM SPIRO FIDO

LORETO COLLEGE
IN HOUSE JOURNAL

I.C.T SOCIETY
TWELFTH EDITION
2018-2019

Drones 3D Printing
Net-Banking
Synthetic Biology
Digital Money
Communication
Robotics
Robots
Bitcoins Automation
#HashTags
Automated Car
Medical Cures
Connectivity
Air Taxi
Artificial Intelligence
Virtual Reality
Hacking
Cloud

CONNECT

NEXT 50 YEARS

OF

TECHNOLOGY

CONNECT

2018-2019

TWELFTH EDITION

I.C.T. SOCIETY

LORETO COLLEGE

IN HOUSE JOURNAL

Note from the Principal's Desk

In the cusp of a massive digital revolution, where internet access has grown due to higher penetration of mobile handsets and wireless infrastructure in urban areas, rural India still falls short of access and facilities thereof. That networking needs to reach remote, rural India is of importance for progress – is imperative. From climatic predictions and probing technology into the Indian agro-based environment, even farmers are benefited.

Digital education and technology-enabled education present considerable opportunity to harness future prospects for youth. Entrepreneurship and start-ups contributing towards generation of employment in the Information Technology sector of multi-dimensional nature spell promise in the future. Dovetailing technology, data mining and data analysis will continue to permeate nearly all spheres of life, widening opportunities of employability for our pupils. Preparing our students to face the world is a challenge – the nature of which changes ever so often.

I thank Ms. C. Sengupta, Mrs. S. Goswami, Dr. S. Dutta and Mrs. D. Ghosh for their valuable advice to the ICT Society headed by Prarthita Ghosh (President) and Udita Chakraborty (Vice President) and congratulate all of them on Connect 2019, for sharing their foresight of growth in the sphere of information technology.

Sr. Christine Coutinho

Principal

Note from the Staff Advisors' Desk

The Internet has invaded all walks of life and has increased the ease of doing day to day activities. The spread of the internet has connected people across different continents. We are part of the information society where internet aided services are central to the growth of the economy and society. The modern gadgets with Internet-enabled features are shaping the way we interact with the world. The emergence of the World Wide Web in 1993 revolutionized communication across the globe and had an impact on almost everything around us. Presently while we have witnessed some life-changing experiences due to the internet we have also encountered serious social problems. This trend is expected to continue in the next fifty years. Experiments have started worldwide with artificial intelligence. Artificial intelligence is set to take human experiences to the next level. The major changes in the world of the internet in the coming years will be aided by artificial intelligence. While options beyond our imagination will be unfolded in the years to come there will be challenges which will pose problems for the social fabric. Learning from the experiences will pave the way for an enriching journey ahead.

Ms. Chandrani Sengupta

Dr. Soumya Dutta

Mrs. Saberi Goswami

Note from the Editors' Desk

It gives us immense pleasure to write the editorial for this year's annual magazine brought out by the Information Communication Technology (ICT) society.

This year the topic that we have chosen is "The Next Fifty Years of Technology" as we feel that the growth and development of technology in the last fifty years had been unprecedented and it would be an exercise in faith and imagination to conjecture what the next fifty years would bring about in the ever changing realm of technology. We have asked the students to envisage this future and present their perspectives, and we have indeed received many enthusiastic responses from the students, which were a delight for us to go through and publish in our journal.

We would like to thank our Principal- Sister Christine Coutinho and our staff advisers- Ms. Chandrani Sengupta, Mr. Soumya Dutta, Mrs. Saberi Goswami for their invaluable guidance and advice for making this magazine a success.

President – Prarthita Ghosh

Vice President- Udita Chakraborty

Treasurer- Syeda Farkhanda

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A Bright Future

It is fun to dream up what the future will look like in the next 5, 10, even 50 years. How will we travel? What will we eat? How will our economy and global workforce shift?

The world will be a healthier and more productive place in fifty years. As many of the essays in 50 Years From Today: 60 of the World's Greatest Minds Share Their Vision of the Next Half Century speculate upon, the next half-century will see major advances in the fields of medicine, transportation, and everyday life. Some of the advances suggested, although theoretically possible, will not be available in 50 years, but some could possibly be around much sooner than 50 years. Several of the essays I read truly caught my eye; As We Live Today, How Will Science Transform Human Society? Future Cars and the Jetsons, Where Are All the Robots?, and A Revolution In Medicine. These essays depict a world with much more technology, but I believe that live will be very similar.

The author of As We Live Today, Vint Cerf, sees the world becoming over-populated the next half century. Cerf speculates that for communication we will have developed holographs, that oil will become a larger global issue, and that fresh drinking water will be a scarcity (Cerf 1). When I am 50 years old, I believe that technology will be much more advanced and will be even more accessible for everyone. Areas like traveling, communicating, and education will become much simpler because of technology. There is no limit to the possibilities for technological advancements, but it is safe to say that for as long as humans are around on Earth they will be creating and inventing new ideas. Technologies we are familiar with today will change and evolve. Cars for example will become more efficient and as Future Cars and the Jetsons, by Bricklin will be completely electric. Another possible change in the automobile industry is the creation of a flying car, such as the ones depicted in the popular cartoon the Jetsons. Proof of the more efficient cars to come can be seen in the hybrids and hydrogen fuel cell cars being designed and tested today. Another technology that is common today that is looking at a promising future is robotics. Shigeo Hirose speculates in his essay Where Are All the Robots that robots will have a negative connotation, because robots will replace humans in the work force. In this day and age this vision is already becoming a possibility, day after day factory workers are being replaced by more efficient robots that are cheaper to maintain and don't require a paycheck. In contrast to Hirose's negative view of future robots, most people today predict humanoid robots that will be able to think for themselves and perform tasks without being told. I believe that humans will realize the faults in having a robot that can think for themselves because the life of a robot is one of servitude and as many sci-fi movies predict, any robot that can think for themselves f will want to be free to do as they please. Medical technology will be largely improved upon in the course of the next 50 years. One aspect of future medicine that entices the minds of people today is the thought of a cure for diseases that are of this time incurable. The author of A Revolution in Medicine, Francis Collins, discusses his theory that every man, woman, and child will have a microchip under the skin of their arm that contains the information about their own personal DNA sequence. These microchips will be scanned daily by computers in their home that run a diagnostic of their bodies that will determine the health of that person.

When the chip detects an illness or irregularity, it will access this problem and will determine what is needed to get rid of the illness (Collins 4-6). Technology such as these microchips will help create a healthier world. But the future seems to have an answer even for those diseases that are now known as incurable. It is predicted that over the next 50 years, scientists will have found cures for diseases such as cancer and AIDS through the help of genetic engineering. In fifty years, the deaf and mute will be able to speak, and everybody reading this will be conversant in dozens of foreign languages, eliminating the very concept of a language barrier. Professional translators argue that local dialects, inflections, and nuance are too complex for computers to ever account for sufficiently. But they are wrong. Today's translation tools were developed by computing more than a billion translations a day for over 200 million people. With the exponential growth in data, that number will soon signify the number of translations made in an afternoon, then in an hour. Massive amounts of language data will go in and out. As the amount of data that informs translation grows exponentially, the machines will grow exponentially more accurate and be able to parse the smallest detail. Whenever the machine translations get it wrong, users can flag the error—and that data too will be incorporated into future attempts. We just need more data, more computing power, and better software. These will come with the passage of time and will fill in the communication gaps in areas including pronunciation and interpreting a spoken response.

By the time 50 years have passed, there will be many changes in the world. Some of these changes, like many other changes in history, will not be necessary but may lead to newer and more important changes. Areas such as medicine, transportation and daily life will be completely revolutionized. All of these changes will lead to a more productive and healthier world.

Nirmalee Sahu

English Honours, 3rd Year

#Wired Roots

In the next 50 years the technology development will so rapid that Nature will have to depend on technology instead of its natural available resources for growing. Let not this situation come in future in which the man-made electricity be the source of Nature to stay alive.

Jeenia Shah

Geography Honours, 2nd Year

Future of Technology

Living in the 21st century humans are called tech savvy because our survival now depends on the greatest establishments and innovations of technology ahead and though predictions about future is something not handy but in the next 50 years we will be considered the greatest witnesses to the following innovations!

Do you know?

▪Climate controlled jackets will protect soldiers from extreme heat and cold where using Peltier Plates will warm up and cool down human body by sending electric currents across junction between the metals.

▪ Nanoparticles will make chemotherapy far more effective by delivering doses of cisplatin and docetaxel to cancerous cells that will reduce the pain.

▪ Clothes will clean themselves soon as engineers in China developed titanium dioxide coating that helps cotton shed stains and eliminate odor producing bacteria.

▪ Shawn Carlson the founder of the Society for Amateur Sciences said within the next 30 years humans will begin augmenting their brains by plugging the power of tomorrow's cellphones directly into their heads.

▪With steady improvement in sonar technology soon by 2040 Pentagon will say goodbye to submarines and underwater robots with laser radar will make seas virtually transparent.

Thus gear up and get ready to witness these upcoming innovations thereby allowing technology to rule our lives in the next 50 and more years!

Sweta Basu

Political Science Honours, 3rd Year

Talented Technology

Technology! Technology! Oh! Lord Technology

So advanced, so developed, I really adore you honestly.

From my e-teacher, to my e-friend, from my e-shopping, to my e-booking,

You have indeed been my companion, I am assuring.

When, terrific scolding make me alone,

Your attachment makes me afloat.

From swift typing to melodious music, from instant information to funny videos,

I have gained a lot, got assistance and help a lot, always without any chaos.

I assure you Almighty Technology, I won't taste the bitter side of yours,

I assure you Grandeur Technology, neither you nor I will be hurt, that's for sure.

Be the same helpful, but more powerful,

Be the same guidance, but more wonderful

May you reach your zenith point in every colorful shades,

May you help mankind, even after five decades.

Sharmishtha Dey

English Honours, 2nd Year

Adrija Saha

History Honours 3rd Year

Technology: Then, Now and After

"Every once in a while, a new technology, an old problem and a big idea turn into an innovation" - Dean Kamen.

The words have been spoken truly and correctly. Technology has been the biggest gift of mankind to itself. It is the application of scientific knowledge for practical purposes, whether in industries or in our daily lives. It has alleviated the human lifestyle, eased it and added such new dimensions that were once not even in the near sight of the human brain. From a society where the human hands did all the work to a society where any kind of work is just a click away makes it difficult to envelope them in a few words. Technology has transformed the way humans listened to music (from Walkman to iPod), the way they saw television, and has developed from floppies, tapes, computers to a mere laptop. That is where our lives have boiled down today. Once technology, which seems to be so wondrous and magnanimous is used as a mere term in a dictionary. There are not many people who are aware of the amount of particles, chemistry and materials are involved when they click a button. It has revolutionized our perspective of the world, created amazing tools and resources, putting each person's most useful information at their fingertips.

While there have been mind boggling discoveries - from smart phones to smart watches - it is beyond imagination what the future of technology beholds? It would definitely be more mesmerizing than it is right now. To put it in the words of Edward Teller -

"The science of today is the technology of tomorrow."

The scientific studies that we read today in newspapers and magazines will create the higher and advanced technology of the future.

Technology has a very wide base, covering almost every aspect of our life, from education, employment, lifestyle to currency, habits, socializing habits etc. In 2015, Hanson Robotics activated the world's first social humanoid robot, Sophia, who even went on to receive the citizenship of Saudi Arabia in 2017. Artificial intelligence is the primary ground of technological development today and it is a treat to see its development. With personal assistants like Siri and Alexa, it would not be too dramatic to say that robots would be a casual view in the fifty years. It is even believed that Robotics will be at fore. Technological advances in sensors, computing, materials and bio mimicry will inspire new abilities that could make today's car building robots as antique as the old steam train. Google already has driverless cars today. We have seen the invention of solar powered cars too. Thus, transportation will definitely be a techno-dominated area of our lives in near future.

Further, the global environment that we are living in today is greatly jeopardizing our own health. Humans can only depend on advancement of technology for greater life expectancy and for the improvement of hazardous environment that humans have created. In fact, technology will not only become ecofriendly in response to this situation, but will bring out innovations for health protection. In a recent American magazine, it was stated, "The silicon age will pass into history as bio quantum, DNA and photonic computers make today's supercomputers primitive in some aspects. "It would be incomplete without acknowledging the major trends and steps that have been taken in the field of astronomy. It was a few years back that man landed on moon and now it is the near future that we are expecting life on Mars. It has not only confirmed a surface of liquid water, organic compounds etc., but individuals have also already

started commercializing Mars. In 2017, Budweiser announced its plan to brew the first beer on Mars. Under its project 'Bud on Mars' they have been researching how to brew beer without gravity. So in near future, we must expect both water and beer on Mars! Currency too is gradually becoming a monopoly of technology. With introduction of digital currency, the business of bas and wallets are sure to take a backseat! Digital currency refers to currency available on digital platform. It exhibits properties similar to physical currency, but allows instantaneous transactions and borderless transfer of ownership. With money being a click away, has every domain of human life under its wraps.

However, the flip side of this coin too needs to be highlighted. While technology will have smoothened our lives from end to end, there are several drawbacks we should arm ourselves against. To begin with human safety, it will definitely be at the stake of technologically advanced minds. In this age, when we are already witnessing an ever-growing rate of cybercrimes, the nest fifty years seems a very brief period of time to contain this threat. Just like a click can solve our problems, a click could be equally capable of creating havoc in our lives.

In addition, the world is also witnessing a gap that is only deepening – the gap between the rich and the poor. Thus, it goes without saying that technology will be a toy of the rich with which they will continue to exploit the poor. The future technology should therefore be aimed at being cost-effective and economically friendly to all classes of society. Recently, Nikki Reed, a popular Hollywood actress created an initiative to reuse wasted wires from laptops and computers and transform them into jewellery. Not only is it eco-friendly, but also proper and judicious management of e-waste.

One of the greatest threats of technology would be to employment. The percentage of unemployed people are already on a rise. Thus, with the coming of a 'robotic age' – with the introduction of robotic nurses, teachers, drivers etc. - what are the professions that the budding youth should seek?

To conclude, while their might be many demerits attached to the technological advancements in the next fifty years, the human mind has proved it's mettle- its capability of the greatest and brightest ideas. Thus, we should welcome the beauty of advanced technology with open arms.

Saransh Gupta
Political Science Honours, 3rd Year

#Earth Conquered #Game Over
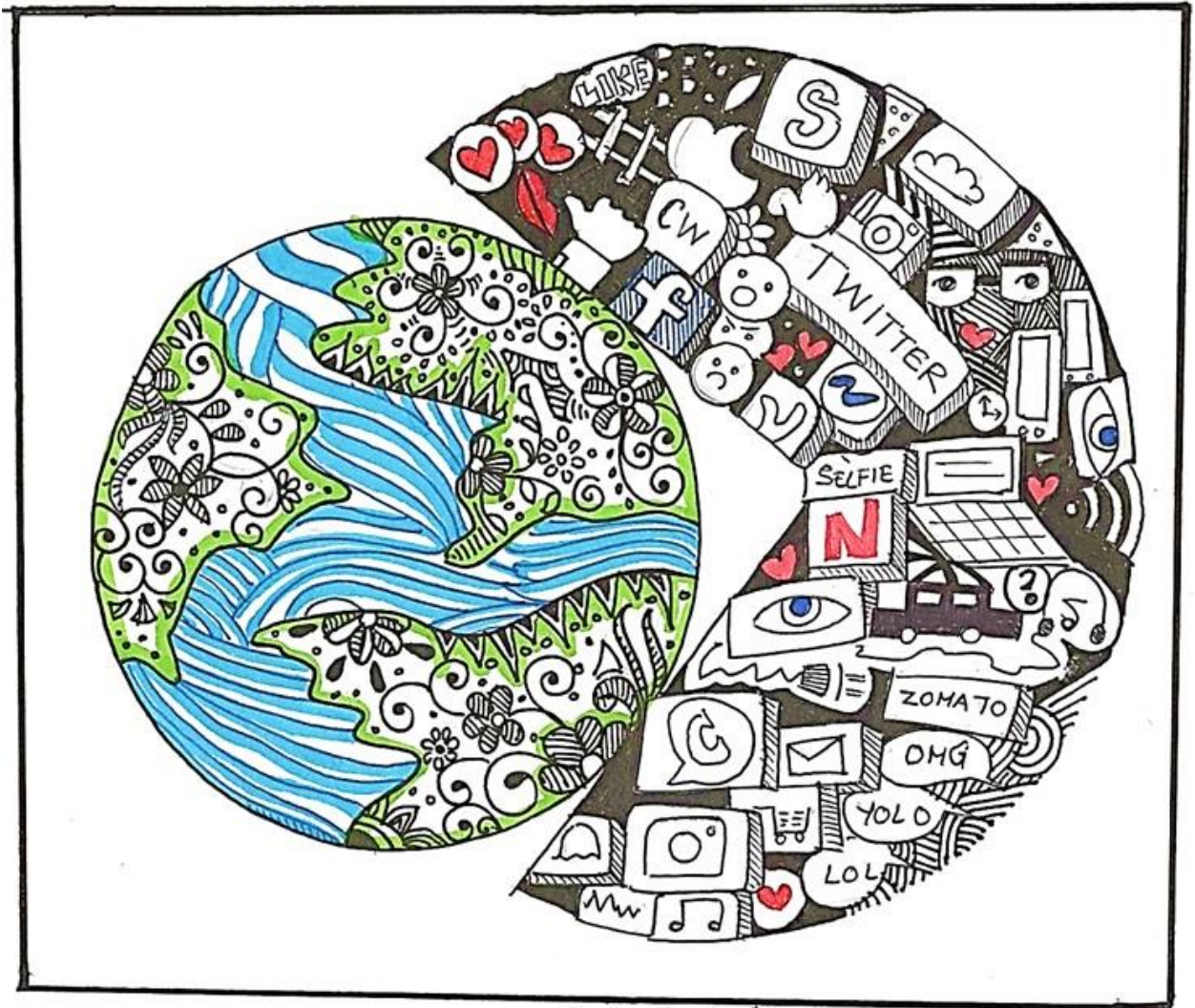
Suchismita Mukherjee

Economics Honours, 2nd Year

Rethinking Technology

Any literature discussing the next fifty years of technology would inevitably boil down to the elaborate debates on the positive and negative impacts of technology and which of these impacts, are at the end, successful in prevailing in our lives. However technology is a way of life, and it neither can be extracted from our lives nor can it rule supreme. Since the Industrial Revolution of the 1800s, to this day technology once channelized into innovations have never been rejected from our lives. From the steam engine to our mobile phones, technology has always filled up the empty spaces in our lives, with necessities. Technology will also, being true to its nature develop exponentially in the next fifty years, which if thought about is not that far away. Thus speculations about how it shall develop is meaningless as no one can foresee such developments rather it is better to discuss if technology should be allowed an even greater role in our lives than today.

Technology today while is necessary in many cases is also responsible for some serious issues plaguing us. Social media or the more commonly touted "comparison machine" – a seemingly harmless contribution of the development of technology, is one of the leading reasons of increasing anxiety and depression among teenagers and adults. Technology has made people lazier and prone to health issues like obesity. It has also made people's security precarious, as anyone's life's savings is literally a hack away and it has also made people prone to spending a lot more than they would have otherwise. While it has made people aware of all the issues happening in the world it has also made people unaware of all the issues that are plaguing their immediate environment by allowing them to escape into a world of make belief and perfect plastic lives.

Technology has however also helped in medical advancement, provided newer methods of catching criminals and have bought families together who are separated by humongous distances through better transportation systems and advanced communication methods like video calling. Nothing and no one is beyond the realm of social media and everyone is bound up together in a media huddle that ought to render every individual into a supreme being with incomprehensible intellectual capabilities. Sadly that is not the case as technology is given way greater importance than it deserves and it more often than not ends up being the means to an end for large businessmen to build empires. People's vulnerabilities and insecurities are exploited by way of forceful advertisements and huge profits are made from making groups of people feel miserable about themselves until a certain product is purchased. People allow themselves to be persuaded and pressurized into unhealthy lifestyle patterns which can be avoided by being aware of the subtleties of media and technology moderation.

Thus technology is not the bane that has lead people into a whirlpool of crisis both moral and spiritual, rather it is the people who have allowed that to happen. So the next fifty years of technology can indeed be a glorious one, if the role assigned to technology in our lives is that of necessity and not of obsession.

Udita Chakraborty

English Honours, 3rd Year

CROSSWORD
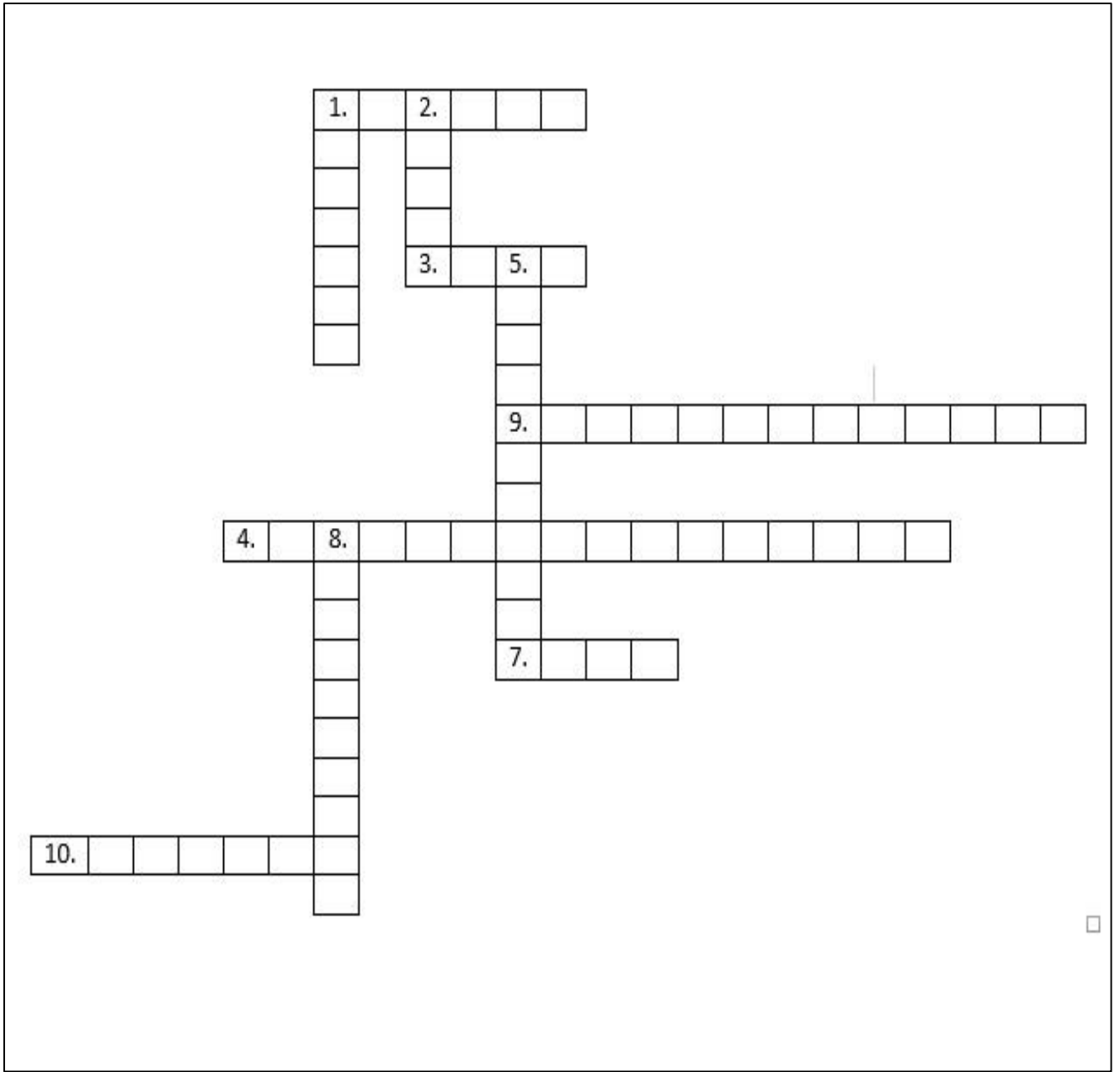
ACROSS

1. Tegra, Tesla, GeForce, NForce are series for integrates chipsets are from this company.
3. One International Submarine Communication Cables
4. Full form of – AR

7. Owner of the brand- Best Resolution Audio Visual Integrated Architecture.

9. Type of component that might add USB parts to a desktop computer.

10. Number of pins VGA display connecter have.

DOWN

2. World's first Regional Operating System

5. Navinder Singh Kapany is an Indian born American Sikh physicist known for his working in this.

1. Predecessor of Wikipedia

8. Name this feature – A visual perimeter, for a real world Geographical area.

Sharmistha Dey
English Honours, 1ST Year

The Next Fifty Years of Technology

"It's not that we use technology, we live technology."- As the American director Godfrey Reggio justifiably put it, life without technology is unimaginable today. From transmitting information across time zones at the touch of a fingertip to getting all our work done sitting right at home, the world is getting smaller and more accessible every day. In the last fifty years, technology has had a huge leap from creating humanoid robots to launching rovers to Mars! What the next fifty years has in store for us would certainly be beyond what we can envisage today. These days, addictive consumer behavior may lead us to grab the latest version of iPhone or Macbook but a better and more updated version is made available in the market in a matter of months. At this rate of progress, we are fast advancing towards technological singularity- the idea of merging human and artificial intelligence into a single super- intelligence. Already, applications like Google Maps are helping us find the shortest possible path to reach anywhere we've never even been to previously with zero chances of losing our way. The next few decades might witness the introduction of self-driven cars, where we do not even have to touch the steering wheel or the gear, just instruct what the destination is and there you are! AI software like Google Assistant, Siri, Cortana, Alexa, etc. can already interpret our voice, follow instructions and even talk back to us in a robotic fashion. Under the Cog Project of MIT in the 1990s, 'Kismet' was an autonomous robot programmed to mimic infantile and social interactions. So from social networks to sociable robots, we are designing technologies that can create an illusion of companionship without emotional demands. Japanese humanoid robots like Actroid, HRP-40, etc. are much human-like in appearance and are capable of smiling and expressing emotions akin to surprise and anger. Sophia, a Hong Kong based robot, was the first robot to achieve citizenship in 2015. Hence, the next fifty years would certainly have more robotic citizens in the world and we might even go to the extent of owning a pet robot who would serve all our needs, saving a lot of time and energy!

A lot of educational tutorials, courses and programs are conducted online now. The next five decades would make education even more Internet and software-oriented. Since children these days are more inclined to virtual reality than reality itself, video games which involve less violence and more innovative storylines can start a new era for children to learn the concepts of their subjects in an interesting and appealing approach. Very recently, we have achieved the feat of launching a sports car to the space, the credit of which goes to the renowned engineer and entrepreneur Elon Musk. His companies like SpaceX and Tesla have goals like reducing the risk of human extinction by establishing a human colony in Mars! Yes- colonization of another planet would be one of the probable ventures of technology in the upcoming years. In fact, after the discovery of an equivalent of 2 gallons bucket of water in the form of ice by the LCROSS probe launched by NASA, there have been plans of colonizing the moon. If the idea is made feasible, the ever increasing human population might find more room to accommodate themselves, thereby reducing the burden on Earth's dwindling resources to some extent. The next five decades would also witness major breakthroughs in genetic engineering which might make it possible for us to analyze our entire genetic code, and treatments could be more custom-made because instead of using drugs with side effects, we could insert Nano robots in our bloodstream enabled with programs to repair damaged DNA or destroy viruses, taking our body's defense

mechanism to a whole new level. Biotechnology too, has come a long way from the Human Genome Project to more advanced DNA fingerprinting techniques, as well as production of improved varieties of crops to sustain the ever growing needs of the population. Stem cell preservation technology is one of the biotechnological advents that can enable us to extend our lifespan to a large extent, and also find out cures for cancer or AIDS which are considered fatal today. In other words, technology in the next fifty years can grant us the gift of something very near to immortality! The scope of technology is so vast that it is very difficult to predict how, when and where it would surprise us! But one needs to keep in mind that as technology creates an appetite for immortality on one hand, it also threatens us of universal extinction on the other. We need to ensure that our servants do not turn into our executioners- it shouldn't be AI taking over the human brain; rather, it should be brain-machine interfaces, because a combination of the two is far better than either of them alone. Also, while turning machines man-like, we should ensure that man doesn't turn machine-like.

As the saying goes, "the best way to predict the future is to create it." Technology is ultimately our creation and as we lead it, so will it lead us. So, the next fifty years of technology would actually be a manifestation of what new horizons the creativity of the human mind can widen up. As of now, we can only wait and watch, hoping that everything would be worth the wait and make the world a better place to live in.

Pragya Saha,

Psychology Honours, 3rd Year

#Books VS Technology

Hrishita Ghosh

History Honours, 3rd Year

Technology through the Lens of Time

In the recent times, the universe is undergoing through lots of changes. With these changes, man is evolving. All these changes have impacted the human lives greatly depending on the nature of the change. These changes greatly influence each aspects of human life. One of the most important is the introduction of technology. With the coming of the technology in the human lives, we see that it brought many advantages as well as disadvantages. The main era of technology and invention came in the 18th century when Industrial Revolution started and machines got invented with which various types of development and production started. From there, technology evolved so much to the extent making the lives of the human beings less burdensome. One of the examples is the transformation from black-and-white televisions to LED television. It could be predicted that in the next fifty years of technology, technology would progress. We would get to see the replacement of human beings by the robots in manual labor. Another prediction followed by it is that the robots would be designed in such a manner that it would be able to carry out the tasks as instructed by the human beings. Also we look forward to human lives being more computerized and technologically advanced. Keeping the future in mind, it is predicted that we would get to see the invention of flying cars. With the invention of the flying cars, it would reduce the pressure on the roads due to traffic jams. Also the flying cars would help the people to reach the places to reach on time. Engineers have started working out in inventing new things. For example, engineers in China have developed titanium dioxide coating that helps cotton shed stains and eliminate odor-producing bacteria. Scientists are working hard to perfect apps that can measure heart and respiration rates, perform blood and saliva tests as well as evaluate cough. It is also said that we will have a colony on Mars. Also doctors will successfully transplant a lab-grown human heart. It is also said that renewable energy sources will surpass fossil fuels in electricity generation.

We need to keep in mind that with the coming of the technology, there are certain disadvantages. The full dependency on technology by the human beings is quite harmful. It is because it is making human beings lazy. With respect to human beings, relationships between human beings are deteriorating. The very big reason for this that instead of face-to-face conversation, people converse through the medium of technology. This is just the present scenario everywhere and it could be said that it would deteriorate in the future as well.

We need to keep in mind these disadvantages with which technology can be improved and be worked out for bringing positivity. Thus, technology in fifty years would make the lives of human beings easier.

Zeba Rahman

History Honours, 3rd Year

#Energy in Future…

The Next 50 Years of Technology I expect that Energy will be far less scarce. Solar is ramping up already in major ways and by 2064 I fully expect that devices like our cell phone, PCs will be powered by nothing more than a solar-sensitive outer cover. For large-scale energy usage, Nuclear Fusion and Thorium fission reactors can handle everything else, no oil needed anymore.

Brijbala Das

History Honours, 1ST Year

Technology in the Coming Ages

In 1969,the man with the name of Neil Armstrong became the first human being to step into the surface of the moon .As estimated 500 million worldwide watched it and it was the highest broadcast at that time Ever since then technology is advancing at a higher rate. In fact, the USB storage in our pocket consumes more power then it took Neil Armstrong to send to the moon. Therefore it will be incredible to see the innovation and advances technology brings in the coming fifty years .There is a famous saying by George Couros, he said "technology will not replace great teachers, but technology in the hand of great teachers will be transformational. Technology affects all the people worldwide both negatively and positively. Our parents did not grow in front of computer or a play station. They did not spend hours looking what their virtual friends is doing on twitter, Instagram or Facebook. They rather went out with blood and flesh friends, played with football or took a talk in the woods. But of course they didn't pay for an ice cream online or brought movie tickets online. Technology has brought advances like online, banking, smart car, and the largest buzz -"the virtual reality". Thus advances in technology is making life easier and efficient and in the next fifty years, technology will replace our lives. Countries will be safer and life will be easier.

Super intelligence will become part of our daily lives and man will be merged with machines. In the next 50 years, technology will flourish and progress exponentially. Great progress has been made in the stem cells research which can lead to deterioration of blood cells thereby increasing life spans. Stem cells research will make transplant obsolete in the foreseeable future except for the cure of cancer. We hope that with greater hard work and innovation in technology, there will soon be a cure to cancer in near future. This will be the best gift of technology to mankind.

Advancement in technology leads to better quality, more modified products, proper civilization which leads to economic growth and wider scope for quality employment opportunities. Technology in the next fifty years is going to influence mankind in the form of:
1.   Artificial Intelligence-Applications and programs with the help of artificial intelligence will produce their own algorithms and there will not be programmed by software engineers. Thus they will give more accurate and intelligence answers and ask more enhanced questions
2. Bye silicon! Hello bio-computing. In the common future technology will pass on history and it will be replaced by bio-computing which will help the blind to see and the people to walk again
3.   Safe and easier travelling-Travelling by car will be safer if not faster due to environmental problems. Cars will be able to predict traffics signals and delay thus ensuring smooth driving.
4.   THE 5 G, 6 G and 7 G will roll, on thus making the people not to worry about connectivity and speed. In the next fifty years, the world is going to go wireless. Fuel cells, passive energy, algae produced batteries that just needs a bit of sugar to recharge will cure the problems of no power in the coming fifty years.

Shayan Shakil

Political Science Honours, 3rd Year

THE DYSTOPIAN FUTURE

She sits near her window

And looks at the sky

An orange hue

Reflecting in her eye.

She pulls out her phone

Staring at her smiling self.

Surrounded by friends

All dressed up as elves.

Suddenly the screen turns black

Leaving her staring at herself.

But this time something was wrong

This wasn't her smiling self.

The smile was swept away

Her eyes looked sad

She looked around the room

But couldn't find the friends she had

Her phone buzzed up

With messages plenty

But no one was there

To hug her gently

She looks down her window

And sees the busy road

People walking on their paths

Not waiting for the ones they love or loathe

She looked at the bright billboards

With advertisements ablaze

Of how you can monetize

A talk or a gaze

She took a deep breath

And exclaimed 'Oh well!'

'Is earth a high tech heaven?

Or a high tech hell?'

Syeda Farkhanda

Economics Honours, 2nd Year

Solution to Crossword

1.N	V	2.I	D	I	A
U		N			
P		D			
E		U			
D		3.S	A	5.F	E
I				I	
A				B	

Across and down solution grid:

- 1 Down: NUPEDIA
- 1 Across: NVIDIA
- 2 Down: INDU(…)
- 3 Across: SA(…)
- 5 Down: FIBR... EOPTIC
- 9 Across: EXPANSIONCARD
- 4 Across: AU GMENTEDREALITY
- 8 Down: GEOFENCING
- 7 Across: SONY
- 10 Across: FIFTEEN

Grid letters as shown:

Row with 9.E X P A N S I O N C A R D
O
P
4.A U 8.G M E N T E D R E A L I T Y
E I
O C
F 7.S O N Y
E
N
C
I
10.F I F T E E N
G

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