



TECH

ZINE

C O S M I C I N N O V A T I O N S

**APRIL 2018
VOL. 4**

Our Special Thanks to

Rev. Fr. Varkey Perekatt, S.J. (Rector)

Dr. Sheila Rai (Principal)

Rev. Fr. Joshy Kuruvilla, S.J. (Vice-Principal)

Rev. Fr. S. Periyannayagam, S.J. (Administrator)

All HODs and faculty members of
Management, Commerce, Economics
And English Department

Office and Support Staff




X-TECH ZINE

Cosmic Innovations

Computer Science Magazine
Session (2017-18)

**Department of Computer Science
St. Xavier's College, Jaipur**

Hathroi Fort Road, Jaipur
Rajasthan – 302001
Tel.: 0141-2370296, 2371290
Web: www.stxaviersjaipur.org



Everything we do is designed, whether we're producing a magazine, a website, or a bridge. Design is really the creative invention that designs everything.

Henry Petroski

TECH-X

The Tech-X club was established to foster the growing interest in technology within St. Xavier's student body. To channelize this groundswell of organic interest, Mr. Dharmveer Yadav (Former HOD, Computer Science), faculty members and students of BCA Department of St. Xavier's College, Jaipur, took the first step by starting the Tech-X. The inauguration of club was done by famous hacker Guru Ankit Fadia.

The objective of the club is to bring forth student's excellence in technology and new media industries, to build a vibrant community of people with interest in high-tech and new media, to provide networking opportunities with students from other schools and professionals (execs, VCs, entrepreneurs), and to raise awareness of technology and trends. This not only enhances the students' knowledge but also enables them to walk on paths of understanding, learning and growing.

The IT club's continuous endeavors have helped in providing campus placement to the deserving students in some of the renowned IT companies like Wipro, Infosys, Unisys etc. We have also promoted students for higher studies by collaborating with many institutes and companies like Pratham Solutions for Java and Robotics, NIIT for Computer Languages, Kings and Times for the preparation for MBA and MCA, Springboard Academy for the preparation of IAS and RAS.

The TECH-X magazine continues to expand its reach to achieve its vision of updating students with technical updates in every dimension which helps in developing innovative and learned citizens for our country. We try to engage the college community by publishing their creative content regularly and through continued and rapid reporting about college events and technical workshops. Our team hopes to build on this ethos just as much during the upcoming academic years. We hope to keep you engrossed throughout.

BHOOMI CHAPLOT
PRESIDENT
BCA III

Message



It is indeed a great privilege to acknowledge that St. Xavier's College, Jaipur, has achieved a remarkable excellence . The Department of Computer Science magazine "X-TECHZINE" adds to the laurels. I congratulate the team members and staff. All these things have been made possible by the extraordinary vision and the immaculate planning. I am sure that through these pages readers will get a bird's eye view of Xavier's and its wonders. The magazine aims to prepare academically rich and professionally competent students with social sensitivity

We are committed to promote in our students education that has the power to bring about socio-economic growth and provides the impetus to develop our nation.

X-TechZine showcases that latent potential of our students who have taken up the challenges to provide information of pioneering research in the field of computer science.

Fr. Varkey Perekatt S.J
Manager and Rector
St. Xavier's College, Jaipur



Message

“There is a time and place for everything, and it’s called college!” ~ Billy Cosby

College is an indispensable part of a student’s life. It is a place where you can strengthen the foundation of work ethics in life and learn the importance of responsibilities and duties.

In today’s dynamic world, computer science plays a vital role. Students of St. Xavier’s showcase their talents in the form of magazine.

This magazine is an outcome of young technocrats who were involved in making the magazine where their innovative ideas and hard work takes final shape. The aim of X- TechZine is sharing the vision of the world towards technology and current trends in computer science.

I wish the team success achieved through diligence, devotion and dedication in all future endeavors.



Dr. Sheila Rai

Principal

St. Xavier’s College, Jaipur



Message



I am glad that the department of Computer Science of St. Xavier's College , Jaipur, is coming up with yet another issue of its techno-based magazine X-TechZine.

In the present day world, technology along with communication skills offers innumerable chances to encounter and explore new insights in all areas of professional life.

I am sure that this magazine will help people to become acquainted with the technological development taking place in our country.

My heartiest congratulations to the editorial team on the admirable work done in bringing out the magazine.

Fr. Joshy Kuruvilla, S.J.

Vice Principal
St. Xavier's College, Jaipur



Message

Our goal is to change the world through education. It may sound idealistic, but this is precisely our mission. It is what motivates the work of everyone at St. Xavier's from faculty and staff, to students-to face the real world and its challenges. I am glad that the Department of Computer Science has come out with its 4th edition of X-TechZine that showcases the budding talent and creativity in the field of information technology. The outcome of this magazine shows that the students who have worked vigorously to prove their dynamic and efficient skills in computers.

My Heartiest congratulations to the team for taking this wonderful initiative in bringing out TechZine. I wish that this magazine brings a new era of joy and enlightenment to the readers.



Fr. S. Periyannayagam, S.J.
Administrator
St. Xavier's College, Jaipur



Message



It gives me great pleasure to present the fourth issue of X-TechZine. This year was full of engaging activities and the challenges we faced were met with full force by our department. I am very happy that my students have worked ardently for this magazine. It is often said "Give me a copy of your department magazine, I will tell you about the quality of your students." I strongly believe in this statement, for a magazine carries the contributions, reflecting the ethos and aspirations of the students. I am happy to know that the department is bringing out the magazine this year. I read with great pleasure the articles and poems published in this magazine. They amply demonstrate the communication skills, poetic prowess, imagination, creativity and technical competence of the contributors. I wish immense success to the students. Let there be more such contributions in the future.

Ms. Arpita Banerjee

HOD, Dept. of Computer Science
St. Xavier's College, Jaipur



Message

Education is not an act of acquiring knowledge but it is all about learning skills to lead life and form one's personality. This is an ennobling process of growth. We at Xavier's family can boldly say that we have excelled in every initiative that we have undertaken and we stand together in facing the challenges in realizing quality education.

This edition of X-TechZine was also launched with an objective to connect the students to the roots of IT sector. I express my exhilarated gratitude to the team of X-TechZine and IT committee of the Department of Computer Science that persisted with untiring enthusiasm. I wish that students continue to create magic and serve this emerging field of computer science.



Dr. Dharmveer Yadav
University Co-ordinator
Dept. of Computer Science
St. Xavier's College, Jaipur



Message



There are several ways to present the canonical core of computer science. The Department of Computer Science imparts technical education to students to make them globally competent in this challenging world. We want education imparted to our students to be the basis of a life time of learning. The student at St. Xavier's College, Jaipur are given every chance to explore their talent and encouraged to take initiatives. X-TechZine is a result of one such initiative.

This is the fourth edition of X-TechZine and I feel privileged to be a part of this magazine. It will serve as a guiding lamp for the young computer science aspirants to get a better understanding of the IT sector.

I congratulate the entire X-TechZine team!

Ms. Vaishali Singh

Assistant Professor

Dept. of Computer Science



Message

“Develop a passion for learning. If you do, you will never cease to grow.”

Holistic education is the hallmark of St. Xavier’s College. Wisdom and ethics together create the ‘A-factor’ of Xaviers. I take this as a blessing that i am a part of such an institution where education and development of a student in every field is keenly looked upon. This magazine is an endeavor in the technical field which seeks innovative ideas to create better individuals who prove to be beneficial assets of the society.

I feel greatly blessed with the love and mercy of God who made to sail safely to the shore.

I look forward to yet another year filled with learning and mutual growth.



Ms. Keren L. Daniel

Assistant Professor

Dept. of Computer Science



Message



The ability to learn is a gift. The ability to learn is a skill but the willingness to learn is a choice. It's a delight to be a mentor and be amongst such bright and zealous students.

It is indeed a pleasure to express my feelings of happiness on being a part of this great institution. We seek to uphold and maintain this competence.

I congratulate the students of the editorial board for the hard work that they have put in for bringing out the magazine.

This magazine provides a platform to students to come forth and show their creativity and build bridge for all to comprehend the management and excellence of this great institute.

Ms. Shrutika Agarwal

Assistant Professor

Dept. of Computer Science



Message

Education is not a preparation for life but is life itself. At Xavier's students are given every chance to explore their talent and encouraged to take new initiative.

Using technology to its advantage this institution gives students a unique chance of growth and also helps in overall personality development.

I feel proud to be an integral part of this edition of magazine which showcases the creative ideas and work done by the students of our department throughout the year.

I wish success and best of everything to all the students for their future and also wish an enjoyable reading to our readers.



Mr. Rajeev Nokhwal
System Administrator
Dept. of Computer Science



JOURNEY OF THE DEPARTMENT



Being a part of the Department of Computer Science ,it is our pleasure to describe the beautiful journey that we have cherished. The best memories blend within us with the workshops, field-trips and with some of the best teachers. Individual's personality development gets a bloom with joyful activities and excellent opportunities in education as well.



EDITORIAL DESK



Editor-in-chief



Chief Designer



Chief Designer



Co-Editor

It gives me immense joy and satisfaction to finally come up with the fourth edition of our department's magazine. Just as gold is put in the furnace for more purification, we have also tried to bring out the best and the latest news in the field of Computer Science. A lot of effort has been put into realising this dream. Each year, the team of editors, designers, photographers and correspondents come together to work extensively & report on events in and around the computer science department in the college. The best part about the magazine is that the final year students unleashed their creativity in designing the magazine despite their preparations for higher studies. So here you have the long awaited magazine TechZine for the year 2017-18. This magazine tries to showcase the talents of

the BCA students in the field of latest technology. This issue includes articles, poem and a host of other things. The magazine continues to expand its reach to achieve its vision of being a true representative of students voice and vision. With a sense of pride and satisfaction I would like to say that TechZine has come alive with the active support of the management, faculty and students. Thanks are due to everyone for their unflinching support and guidance, especially the faculty members and the team members without whom this issue wouldn't have been possible. We hope all the readers enjoy this issue as much as we enjoyed creating it.

Happy Reading!!!!

Bhoomi
(Editor-in-chief)

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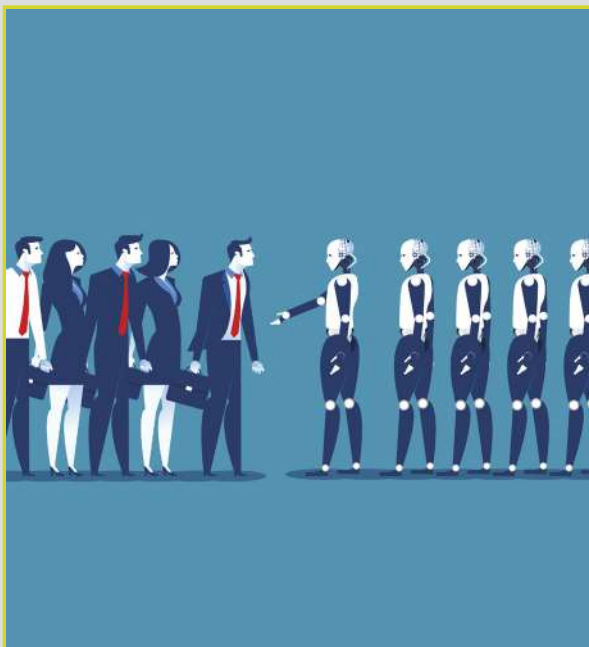
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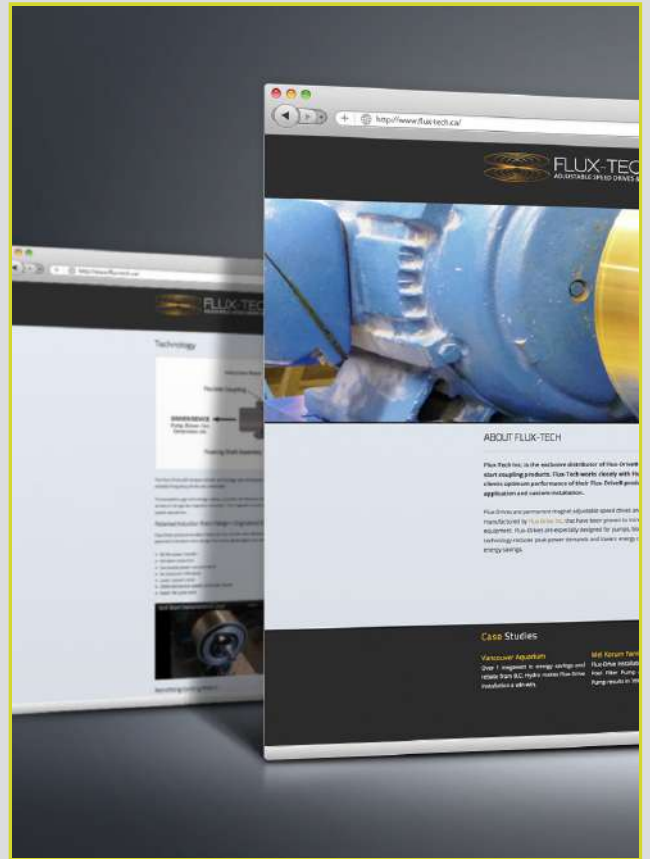
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TECH-X

Department of Computer Science St. Xavier's College, Jaipur

Ever since the Tech-X club was found, it has been achieving new heights. The club has developed a technological culture in the college and has organized many seminars like Ethical Hacking, Robotics, Sixth Sense, Network Security, and Search Engine Optimization Techniques in association with prominent personalities who are experts in their respective fields. Besides this Tech X has also organized industrial visits and educational tours like Tao Experiences, Heiwa Heaven Resort, Devprayag. The students of BCA department has also shown their expertise in designing posters, flex of Zest, National and International Conference and various other department fest.

Tech X Council

Bhoomi Chaplot(President)
Roopak Bhama(Vice President)
Nitin Goyal(Vice President)
Mohit Gusain(Cultural Head)
Hardik Puri(Cultural Head)
Saksham Prabhakar(Secretary)
Harshi Sharma(Secretary)
Raj Yadav (Treasurer)
Shubham Bagdi (Treasurer)

ORIENTATION

Orientation is a way for the fresher's to make themselves comfortable amongst the unknown faces and the totally new environment. Tech-X, IT club of St. Xavier's college with the help of faculties organized a small and interactive orientation ceremony on July 22nd 2017.

The orientation commenced with valuable speech given by Principal Ms. Sheila Rai. Then followed by a cultural events such as small music, drama and dance performance. Students from 2nd and 3rd year also organized an interactive chit based game session with the freshers to do the task given in the chits. The orientation session concluded with the VOT speech given by Ms. Arpita Banerjee, HOD.

Ananya Joshi (BCA-I)



TRIP HEIWA HEAVEN RESORT

"As with any journey, who you travel with can be more important than your DESTINATION."

On this note to make fresher's more comfortable with their seniors and the teachers of their department, one day trip to Heiwa Heaven was organized on August 30 2017. The venue, duration, transportation, food and beverages all were managed by the department. When the students reached the destination they were served with quick snack and drink as a nice refreshment. The arrangement in resort was good and all the basic amenities like swimming pool, a rain dance area, gaming zone and many more were accessible to students. The students enjoyed doing different activities like playing football, cricket and badminton, riding bicycle and swimming and dancing. In student's mind the day was all about about making new memories and forming a new friendship.

Kasvi Khadelwal (BCA-II)



TED-X

TEDx Jaipur 2017, held on Saturday, December 16, 2017, was a splash of brilliant ideas and performances that left the attendees spell bound. The theme for this edition, BEYOND, was all about innovations and concepts beyond the ordinary. Speakers for TedX 2017 included :Anandamide ,Faizal Ali Dar,Dr Vishal Rao: Inventor,Afreen Rehman: Triple Talaq Petitioner, Kamakshi Khanna and many more.The opening session, titled 'Reimagining Hope' was all about efforts being taken to make this world a little more tolerant, and re-installing humanity. The second session, titled 'Truth or Dare' focused on the several realities in the society that need attention. The speakers also talked about the ideas being curated and the steps being taken to curb several challenges using the latest technology. Aptly titled 'Brave New World', the third session highlighted the creative and innovative ways in which several environmental and social issues are being catered. The speakers showcased the techniques that can be used to help the world adapt to change and accept the nature.

Nitin Goyal BCA III

RED HAT

Recently, an IT based workshop was organized at St. Xavier's College, Jaipur to spread awareness among the students about the software called 'LINUX'. The aim about the former was taken up by Red Hat. The Programme preceded by letting everyone knows that Linux has grown to become the standard operating system for cloud infrastructure as well as the preferred delivery for modern application. Briefs about the other courses available like Graphic Designing, CAD, DBA, etc. were given. The concerned people emphasized on the importance of learning and the benefits of the certified courses provided, as the closure.

Riya Gurbani BCA-II



R A A C E



2 0 1 7





RECENT ADVANCES AND APPLICATIONS IN COMPUTER ENGINEERING 2017

Department of Computer Science organized an International Conference on “Recent Advances and Applications in Computer Engineering (RAACE 2017)” during 23rd-

25th November 2017. This conference witnessed by Prof. Nasser Nassiri, UAE, Dr. Nilajan Dey, Techno India, Kolkatta, Dr. Millie Pant, IIT Roorkee, Dr. Satish Sashtri, Dean Modi University, Dr.S.K.Pandey DoIT, Delhi, Prof. S. K.Sharma, MITRC, Alwar, along with academicians, scientists, researchers in engineering, designers and industrialists working in the field of Computer Science and Engineering to share and exchange their valuable excellent results and new challenges.

The aim of the conference was to highlight the recent advances and challenges in the field of Computer Science and Engineering with a link to scientific research and its practical implementation. RAACE 2017 also encouraged the young researchers at the beginning of their career to participate in this conference and invite them to present their work on this platform.

Not only this, RAACE 2017 also offered a rich program, including keynote speeches, parallel sessions on Digital Humanities, workshops and lots of fun. Authors contributed to the conference by submitting research papers and industrial experiences that describe significant advances in the areas of Computer Science and Engineering. The three days of sheer learning, innovation and fun ended with a Gala Dinner and made it one memory to behold.



JOURNEY OF ENIGMA

Our thriving journey as a Xavierite initiated in 2015. At first, before becoming a member of tech club we were in a bit of dilemma, while later, the opportunities we got, the memories we made, the amazing people we got to be friends with, are all that one hopes to get in life. Not every day was the same but various events gave multiple opportunities for personality development and self-growth. Well, what we didn't realize was the fact that all this time, we were making memories that would last us for a lifetime. College inspired us to think differently. It's like no other time in your life. Coming to the present scenario, when we witnessed the very First IT fest of our college "Enigma'18 -Bringing the Fiction Alive" organized by the department of computer science, gave a unique chance to exhibit one's caliber and talent. Enigma bringing the fiction alive is the finest example of giving a small idea a life. The event began with the ceremonial lighting of the lamp by the chief guest Mrs. Vimmi Walia (Asst. Manager of Quality Assurance) and Dr. Sheila Rai (Principal), Rev Fr. Joshy Kuruvilla, S.J. (Vice-Principal), Rev Fr. Periyar, Administrator, and all faculty members, St. Xavier's College, Jaipur. There were events like Livewire, Battle of Bots, Word Warriors, Error 404, Speedo-type, Cursor Strokes, Codeescape etc. Almost all the events of the fest were judged by the professionals such as DJ Akansha Taneja, Ms. Rolika Singh (Director of Arena Animation), Ms. Purva Bhatt (Asst, Professor of Sociology), Ms. Shruti Gupta (Editorial Head, Jaipur Diaries). Overall it was an eye-catching experience, events furnishing golden opportunities to manifest skills. The alluring event will always draw many at St. Xavier's College, Jaipur. The department of computer science is blessed with talented students to make this event eternal. Enigma '18 a virtual moment ended with a prize distribution ceremony marked by the presence of Rev. Fr. Varkey Perekatt, S.J. (Rector). An extending thanks to all members who helped in making Enigma'18 successful and enchanting.

Student (Batch of 2015)

AHMEDABAD EXCHANGE PROGRAM

Cultural exchange is a very unique way of learning and educating one self. This year we had an exchange program from our college to St. Xavier's College Ahmedabad. Few students from the BCA department took part in this as well . Learning in this fast moving world has stepped up its game and we ourselves had a great time in broadening our mind by seeing and learning the different cultures of Gujarat. To our amusement this has been a very educative experience for us, Learning about architecture, history, science and a lot more. Making new friends and socializing with new and different people is something I particularly learned from this trip. We attended 2 lectures and realized the value of our own teachers. We went to the reserve bank of India, places like the Sabarmati Ashram .Overall it was a very fun, educative, and an amazing experience we will carry in our memories for a long time.

Umang Choudhary (BCA I)

ZEST 18

For the sixth time in a row, ZEST'18 was a delightful turnout. It was staged under the theme of "Exploring the Fifth Dimension". The Three-day juncture in St. Xavier's college, Jaipur featured 35+ events. The Computer Science Department played a huge role in making the event a huge success by designing websites, flexes and organising inter college event LAN Gaming(Co-ordinaor Kunal Gupta). A perfect amalgam of sportiveness, recreation and appetite. It abide in about 300 attendees. Undoubtedly, event was at the top of the ladder. Furthermore, there was one of the blooming event named C-Mania(Co-ordinator -Shubham Mamtani), which comprised of coding and decoding. The many and varied supporting events made a visit to ZEST 2018, even more gratifying.

Kunal Mathur (BCA II)

Adieu

“Out memories of yesterday will last a Lifetime. We’ll take the Best, Forget the Rest, and someday will find that these are the best of times”.

Student council of Xavier’s, Jaipur, gathered today to bid farewell to the outgoing batch 2017-2018. The day was a fiesta devoted to the years spent together with friends and teachers to reminisce joyous moments. The Auditorium was festooned with gold and shining stars and dazzling lights. The theme of the party was ‘Celebrándole’.

The ceremony started with the welcome of students with dholaks. The auditorium was set ablaze with an incredible dance, music, fashion show which gave a pulsating music that rocked the ambience. The much-awaited result of the Xavierite was announced. Bhoomi Chaplot (BCA III) and Iravadi (B.Com III) were the stars. While Awards of Academic Excellence and Regularity in Department of Computer Science were also give, the president of the college Jude Weston delivered VOT.



WannaCry 2.0 Ransomware

In the recent times, the world has witnessed many cyber-attacks. One such attack was the WannaCry 2.0. What was the WannaCry 2.0? It was a ransomware that broke-out on a worldwide scale in the year of 2017.

I would like to start by giving you some details of the attack. On 12th May 2017, this ransomware attacked a huge amount of computers worldwide running Microsoft Windows OS. The idea was to encrypt data and block its access to its legitimate users. In order to regain access of data, the users had to fulfill ransom demands of \$300-\$600 in

Bitcoin cryptocurrency. It was estimated that the ransomware had affected more the 3,00,00 computers over 150 countries.

How does it work?

The attackers took advantage of a vulnerability of the Server Message Block (SMB) protocol. The SMBv1 in various versions of the Windows OS mishandles specially crafted packets from attackers which allows them to execute arbitrary code on the target computer.

All this was done with the help of Eternal Blue, an exploit developed by the U.S. National Security Agency (NSA). It was mysteriously stolen

and used for the Wanna-cry attack.

Microsoft eventually learned about the theft and the vulnerability which allowed the company to prepare software patches which were issued on March 2017. The patches were released for Windows 7, Windows 8.1, Windows 10, Windows server 2008, 2012 & 2016.

Unfortunately, many users had not installed the patches when the ransomware attacked their data on May 2017. However, Microsoft then released patches for Windows 7 and 8.

One of the biggest reasons of the success of this attack was that many users were still running

older versions of the Windows OS. Once the ransomware seized all data, it displayed a message informing the user that the files have been encrypted and demanded ransom in order to release the data.

Who was behind the attack?

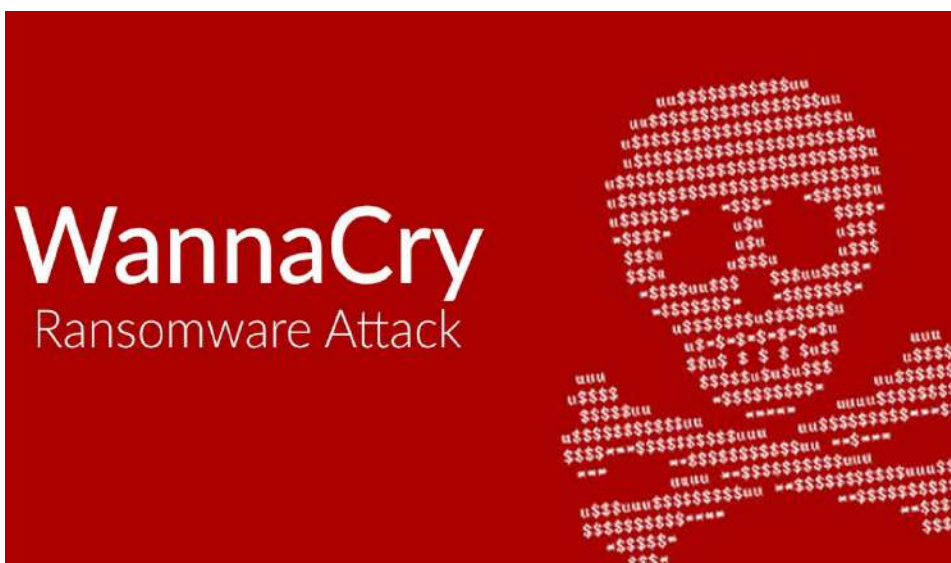
The Shadow Brokers, a hacker group that first appeared in 2016 was put responsible for the attack. They had also published various leaks containing hacking tools from the NSA. They were the ones who released the EternalBlue a few

months before the attack. WannaCry also used a backdoor tool called DoublePulsar which was also released by the Shadow Brokers. Many also highlighted the NSA's non-disclosure of the vulnerability and their loss of control over EternalBlue.

Are technologies helping us or making us more vulnerable? Well it comes down to one's perspective towards things. More advancements, more vulnerabilities. It is us who have to take care of the vulnerabilities as we are the ones

who have developed all networks and technologies in the first place. The need of the hour is to be responsible towards our technologies and towards our data. Had the users updated their systems and installed security patches provided by Microsoft, the damage would have been far less. The discovery of a kill switch to prevent the ransomware from spreading any further was a lifesaver for many.

Raghav Singh Chaturvedi (BCA II)



IT HUBS IN INDIA

IT hubs, India is an industry consisting of two major elements: IT's act of assistance and commerce procedure outsourcing (BPO). This very day, Bangalore is noted as the Silicon upland of India.

India's next & largest software agencies are HQ in Bangalore. Bangalore being the global technology hub is also India's largest exporter both of IT overall and of software.

Some top it service suppliers such as Infosys, Mindtree, Wipro and emphasis are having HQ in bangalore itself. Known as the national headquarters of number of zenith international cooperation ex. Intel, Instruments, Texas, Bosch, Yahoo, SAP Labs, Google India, Microsoft, Facebook, EA, Apple Inc., Sandisk, Harman, Dell, Ericsson, Goldman Sachs, HP, Cognizant etc.

Bangalore by oneself consists of above 35% of IT companies

available in India and has about 5,000 firms, making it India's largest IT contributor. Hyderabad, known as HITECH City or Cyberabad is a major global information technology hub and the largest bioinformatics hub in India. It has emerged as the second largest city in the country for software exports piping competitors Chennai and Pune.

It is the site of the first Microsoft development centre in India. Pune, One of the leading Indian and international IT services and outsourcing exporters. The next biggest IT park in India (Rajiv Gandhi IT Park at Hinjawadi) is expected to scale up to phase 7.

Chennai- has a world-class IT infrastructure with dedicated expressway nicknamed as IT expressways, and many other IT parks promoted by both government and private entities. Mumbai- It is headquarters to

IT NEWS

5 Technology Trends That Will Dominate 2018

There's a myriad of tech trends we're watching that can change the world once again in the current year. Here are the five tech trends that can dominate 2017.

1. Virtual and Augmented Reality

The previous year we saw the success of VR and gadgets like Oculus Rift and games like Pokemon Go which was a huge success. There are countless other apps that were released in the year 2016 just after the success of Pokemon Go. So, get ready to see the AR and VR versions of things that go beyond capturing animals and immersive gaming.

2. AI and Automation

As the tech giants had already shown us a lot of automation. This is widely getting the more commonplace. Well, thanks

to better AI and chatbots that can understand the context a whole lot better than ever before. A few days ago we have seen Mark Zuckerberg unveiled his personal AI Jarvis which he claimed can control the entire home. So, we can expect that AI will play a key role in everyday life and more and more jobs will be automated.

3. Smart Wearables

Well, wearables suffered a lot in 2017, the smartwatch category tumbling 52% in the third quarter of previous year, as reported by IDC. However, they are not dead because of the increase of sales in basic wearables like fitness watch in the same quarter. So, there will likely be a major reconfiguration of the devices that are becoming increasingly invasive and more capable of analyzing data to more proactively help users lead

TECH TRENDS

healthier lives. So, smart wearables are likely to dominate in 2018.

4. IoT (Internet of Things)

IoT or Internet of things will be represented in every product shown in one form or another. You will find connected devices and IoT-related products in every new wearable and health-related devices even in vehicles. So, we could assume that every electronic product will have the same form of connectivity.

5. Blur between Physical and Digital

As we all know more and more people now own a smartphone. Our smartphones can do pretty much everything. So, we are likely to see a more of a blurred line between physical and digital worlds. Like we

are looking for navigation services to get even more specific maps in a store's app. So, very soon the virtual objects and information will be displayed on the top of the physical world, will make its way to out of phone which is called "Augmented Reality". Search giants are already working on image search based on augmented reality that allows users to point the camera at something and search for information based on what the camera lens takes in. So, these are just the highlights of what things will be the trend in 2018.

Researchers Developed A Glass That Can Completely Heal Itself

In the coming years, the manufacture of smartphones will undergo major changes. As recently, a group of scientists have been able to discover polymer conferring regenerative properties of glass. A material that can be repaired beyond cuts and damages.

The arrival of the flexible screens is a matter of time. Many manufacturers have been working for years in the development of this technology. In fact, we already know that the screens of the phones of the future will be transparent silver, leaving behind the typical glass screens. This will allow manufacturing devices with more resistant screens. In this sense, Samsung is one of the companies that has advanced the most in the development of flexible screens. The Korean firm has very ambitious plans for the coming years and in 2019 could start selling these panels to other manufacturers in the sector.

However, now a group of Japanese researchers discover polymer conferring regenerative properties of glass. Ever wondered if you broke the glass of your smartphone and it regenerated the damage automatically?

Glass is a material with very little elastic properties and also relatively easy to break. In order to combat this natural imposition, a team of Japanese researchers have discovered a polymer that allows regenerating and bonding glass fragments, without having to resort to glues and derivatives.

Dhirender Soni (BCA III)



~Mohit



~Mohit



~Mohit



~Kapil



~Mohit



~Malhar



IT PERSONALITIES



Pichai Sundararajan also known as Sundar Pichai is an Indian American business executive. Pichai is the chief executive officer (CEO) of Google Inc. He was born on 12 July 1972 in Madurai, Tamil Nadu, India. Pichai joined Google in 2004, where he led the product management and innovation efforts for a suite of Google's client software products, including Google Chrome and Chrome OS.

Steven Paul Jobs was an American entrepreneur, business magnate, inventor, and industrial designer. He was the chairman, chief executive officer (CEO), and co-founder of Apple Inc.; CEO and majority shareholder of Pixar. Steve Jobs was born on February 24, 1955, in San Francisco, California. In 1974, Jobs took a position as a video game designer with Atari. After leaving Apple in 1985, Jobs began a new hardware and software enterprise called NeXT, Inc. In 1997, Jobs returned to his post as Apple's CEO.



William Henry Gates III is an American business magnate, investor, author, philanthropist, and co-founder of the Microsoft Corporation along with Paul Allen. Bill Gates was born on October 28, 1955, in Seattle, Washington. In February 2014, Gates announced in an advertising campaign that a new Microsoft operating system was about to be developed that would use a graphic interface. It was to be called "Windows," and would be compatible with all PC software products developed on the MS-DOS system.

Garima Modi (BCA - I)

SOCIAL MEDIA



Social networking sites like facebook , whatsapp, instagram, allow us to find friends and connect with them, but in reality it is building a gap between our true friends. In the world of social networking sites people have changed a lot. When we go to a cafe and order a fancy food item, before tasting it we are excited to share it with our so called friends. There is no privacy, everybody knows where we are and what are we doing. Some people are so addicted that their day begins with a sun-kissed morning selfie and ends with a goodnight kiss selfie. Snapchat streaks are just a formality which is to be done every day to fake friends. People have forgotten the meaning of real friendship, as there are so many but in reality there is no one to support us in our bad times. Everybody is just interested in gossip.

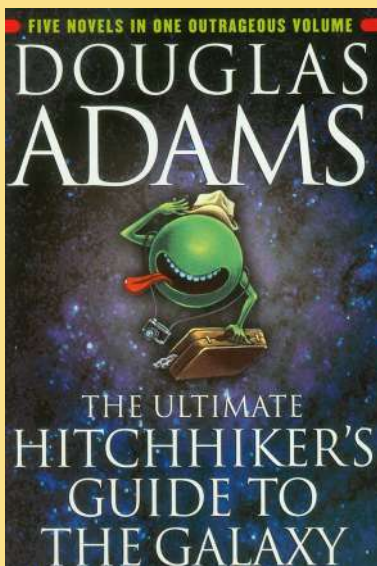
Earlier when there was no internet, people genuinely interacted with each other. People were happy in their own life as they didn't compare themselves with anybody else. Now everybody's lives in the world of showoff.

NOVEL REVIEW

Summary: In the year 2044, reality is an ugly place. The only time teenage Wade Watts really feels alive is when he's jacked into the virtual utopia known as the OASIS. Wade's devoted his life to studying the puzzles hidden within this world's digital confines, puzzles that are based on their creator's obsession with the pop culture of decades past and that promise massive power and fortune to whoever can unlock them. When Wade stumbles upon the first clue, he finds himself beset by players willing to kill to take this ultimate prize. The race is on, and if Wade's going to survive, he'll have to win and confront the real world he's always been so desperate to escape.



Seconds before the Earth is demolished to make way for a galactic freeway, Arthur Dent is plucked off the planet by his friend Ford Prefect, a researcher for the revised edition of *The Hitchhiker's Guide to the Galaxy* who, for the last fifteen years, has been posing as an out-of-work actor.



Together this dynamic pair begin a journey through space aided by quotes from *The Hitchhiker's Guide* ("A towel is about the most massively useful thing an interstellar hitchhiker can have") and a galaxy-full of fellow travelers: Zaphod Beeblebrox—the two-headed, three-armed ex-hippie and totally out-to-lunch president of the galaxy; Trillian, Zaphod's girlfriend (formally Tricia McMillan), whom Arthur tried to pick up at a cocktail party once upon a time zone; Marvin, a paranoid, brilliant, and chronically depressed robot; Veet Voojagig, a former graduate student who is obsessed with the disappearance of all the ballpoint pens he bought over the years.

Harshi Sharma (BCA-III)

Mr. Robot

The main character Elliot Alderson, is a tech world Batman. Working as a cybersecurity specialist by day, he is known as a hacker-slash-avenger by night. Elliott fights the system, society, his own complexes and principles, and the whole wide world. Mr. Robot is probably the first show that portrays an elite hacker and their groups who uses computers, smartphones and many other technologies to penetrate secure network to take down evil corporation while being anonymous.

This drama is thoroughly engrossing from episode one, and it will keep you guessing episode after episode.

Silicon Valley

This TV series displays the tech and hacking with a bit of comic touch. The series shows the competition between techies in the high-tech gold rush of modern Silicon Valley. The show has comedy plumbed from all corners of Silicon Valley life, from the ridiculous amounts of money and status being lavished upon small teams of tech nerds, to the socially inept money men and tech founders found at the top of the corporate ladder.

Harshi Sharma (BCA-III)

Reviews

Gaming Laptop

A Gaming Computer is a personal computer designed for playing computationally demanding video games. Take your gaming everywhere you go without losing performance or graphics capabilities with one of these powerful and feature-rich gaming laptops.

Acer Nitro 5 AN515-41



Acer brought its 15.6" Nitro 5 gaming laptop to CES 2018, showcasing a new AMD configuration featuring the latest Ryzen mobile processors and Radeon RX560 graphics. The components are adept for mainstream gaming on a 1920 x 1080 display, and Acer's sleek red-on-black design is well-suited for the AMD component- equipped PC, and more Red Team options in the mobile gaming market has been long overdue. The Acer Nitro 5 costs starts around 85,000.

Specification

Display	15.6" Full HD IPS display
CPU	AMD Ryzen mobile processors
Graphics	AMD Radeon RX560
Memory	Up to 32GB DDR4
SSD	Up to 512GB SSD
USB Ports	USB Type-C

Asus ROG Strix SKT T1 Hero Edition



Asus revealed a new gaming laptop called the ROG Strix SKT T1 Hero Edition. The company was vague on the finer details of what's under the hood (we know there's a Core i7, GTX 1060, and 120Hz display), but we're pretty sure that's not the focus of the new limited-edition portable. SK Telecom T1 is a championship pro South Korean eSports team that made their mark playing the popular MOBA League

of Legends, and the SKT T1 Hero Edition is the equivalent of Kobe Bryant-edition Nike shoes. Asus appears to be among the first to offer a PC device tailored after a specific eSports team, and it could be ahead of a possible trend if eSports continues to evolve as it has over the past few years. This laptop will cost you around 1 lakh and up.

Specification

Display	15.6" IPS @ 1920 x 1080 120Hz
CPU	Intel Core i7
Graphics	Nvidia GeForce GTX 1060

Mobile Phone

A mobile phone or cell phone is an electronic telecommunications device with the same basic capability as a conventional fixed-line telephone, but which is also entirely portable and is not required to be connected with a wire to the telephone network.

Sony Xperia XZs

Sony has launched its flagship device called Sony Xperia XZs. The highlight of this phone is its Motion Eye camera that comes with a memory stacked Exmor RS sensor that provides 5x faster image scanning. The camera supports 4K Video recording, Predictive Capture, Ant-distortion shutter and it can record 960fps slow-motion videos, making playback 4 times slower than is possible in any other powerful smartphone. Sony has also upgraded its Bionz image processing engine with better motion detection and noise reduction.

Sony Xperia XZs Smartphone was launched in May 2017, comes with a 5.2-inch Full HD IPS LCD Capacitive touchscreen with a resolution of 1080 x 1920 pixel at a pixel density of 424 pixels per inch. The screen is also protected by a Corning Gorilla Glass Scratch Resistant display.



Sony Xperia XZs Price in India Starts from Rs. 39990

Xiaomi Mi Mix



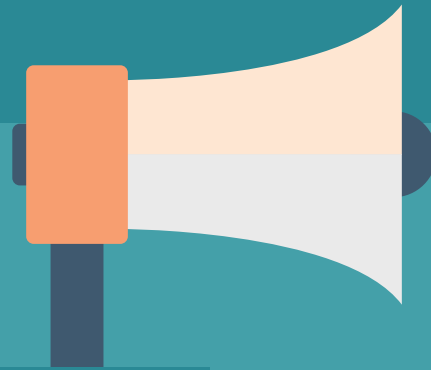
XiaomiMi MIX will comes in two variants – First one comes with 4GB RAM and 128 GB internal memory and the second one has 6GB RAM and 256 GB Internal memory and is adorned by 18k gold trim on the rear camera and fingerprint sensor. The highlight of the device is its near bezel less design with curved edges on top. It has a ceramic body and according to the company, it has a huge 91.3 percent screen-to-body ratio. Other important features are that instead of a standard proximity sensor it sports an ultrasonic proximity sensor and in place of a normal earpiece it comes with the Cantilever piezoelectric ceramic acoustic system.

XiaomiMi Mix Smartphone was launched in October 2016, comes with a 6.4-inch Full HD IPS LCD Capacitive touchscreen with a resolution of 1080 x 2040 pixel at a pixel density of 362 pixels per inch. The screen is not protected by a Scratch Resistant display.

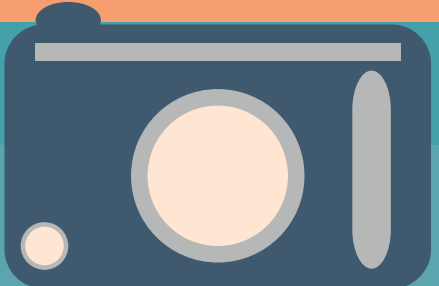
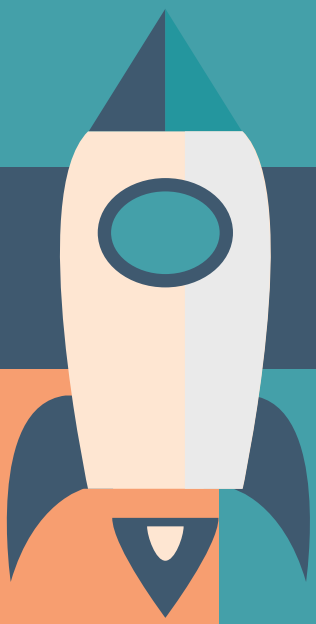
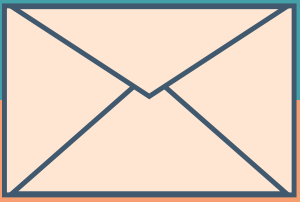
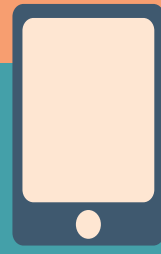
XiaomiMi Mix Price in India Starts from Rs. 34500

Chirag Mathur (BCA-I)

IT



X-TECHZINE



XAVIERS

