EXTECH VISION

P.I.E.T.
PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

A MAGAZINE BY DEPARTMENT OF COMPUTER APPLICATIONS

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PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY
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SIH 2020 is a 4th Season of Smart India Hackathon which is a nationwide initiative to provide students a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving.

On January 25th ,2020, Panipat Institute of Engineering & Technology, Samalkha, Panipat, Haryana had organized Internal Smart India Hackathon 2020. 24 teams registered for SIH competition-2020. Students from Department of Computer Applications also participated in it. Bhavya, Himanshu, Jugti, Diksha, Himanshu, Shubham, Yash Garg and Sahib from BCA-Final year; Gautam Verma from BCA 2nd year, Sakshi Sikka from MCA 2nd year presented their ideas in Internal Smart India Hackathon.

SPORTS MEET

PIET has been involving all the students in some form of competitive physical activities. The objective is to enhance physical abilities and skills of our students while it also provides entertainment to the participants as well as to the spectators.

As the part of the extra-curriculum the Annual Sports Meet is held annually in the college premises. The sports Meet-2020 was organized on 27th, 28th and 29th January, 2020 at PIET Campus. During the two-day Sports Meet students displayed a rare blend of strength and stamina by zealous participation in outdoor and indoor games. Sports infused in students the spirit of leadership, cooperation, co-ordination, self-regulation, self-confidence and decision-making skills. Many students from BCA and MCA course participated in games like Badminton, Basketball, Volleyball and Cricket.

MAESTROS

PIET organizes 'Maestros"an inter-institute technical and cultural fest to provide a unique and conceptual learning opportunity to the students. Students of Department of Computer Applications showcased their talent in various categories like technical, cultural, and Informal events. Sahib Singh from BCA-3rd year participated in group Dance(Bhangra) with his group named "Virsa",

Ankita and Riya from BCA-3rd year participated in Fashion Show. A student of BCA-3rd year, Bhavya being the anchor of the event, handled the main stage of the fest. Harmeet coordinated the cultural events of the fest. Students received their academic prizes too.

Many students of the Department were part of various technical events like apathon, war of codes etc.

Articles & Thoughts Written By Students and Faculty

Destiny- 'A Play or a Playground'

"Man is a child of destiny."

Everything one does or happens to him is according to the path he is destined to walk. God, the supreme being has written the skit and we all are playing our dictated roles in it. The stage is set and He is there to walk us through the story of our life, a planned life.If we have to play a role already written for us, howare we different any different from puppets used in an act whose actions are controlled by one?And if we in fact are puppets to Him, does that mean we can not have a will of our own, or the personality that defines us and we strive to perfect, does that personality is just a written part that we would have got anyway?If there is a part laid down for us, why does He want to walk with us? Just to see how long his creations can last?Does this mean the life we think we have are just strings that control us?And if this isn't true why do people say things like, "This is what God must've planned." or "He was destined to be like this." Do things have to end in a certain way no matter the efforts put in?I don't think there is just one path for us. I think of us a living being full of life. We have been born in this world to live not to play a part, we are an entity of free will. He only wants us to live the life presented to us. And he only wants to walk with us on our paths just because he is curious about what would we make of ourselves with opportunities and obstacles we are going to face with that free will. He wants to see how are we going to play in the playground he has built for us not how we act in the play He haswritten.Nothing has to be in a certain way. People make their choices, do hard work and along with a little bit of luck it leads them to wherever they may be or are going to be.In simple words,

"Destiny is just a word used as an excuse by both

failed and succeeded ones."

- Gurpreet,MCA 4th Sem

TIME MANAGEMENT

Time management is the ability to utilize one's time efficiently so as to be more productive and organized. It is said that if you master this technique you can accomplish just about anything in life. However, as simplistic as it seems, efficient time management is not something that everyone is good at. It takes a good amount of effort to achieve it. Self-discipline is the key to manage your time well.

Keeping a tab on the time and managing it efficiently helps in the following manner:

It keeps you motivated to work harder.
It increases productivity.
It helps you attain more with lesser efforts.
It gives a sense of satisfaction.
It reduces your stress levels.
It increases your quality of work.
You can manage your time efficiently with the help of following tips:

Prepare a list of tasks to be accomplished during the day.
Prioritise your tasks and also set time to complete each of them.
Stick to your schedule diligently.
Take breaks in between the tasks.
Do not forget to take 7-8 hours of sleep each day.
These tips should not only help the students and working professional manage their work efficiently and increase productivity but are also for homemakers to help them stay more organized.

-Dhairya, MCA 4th Sem

Cyber Security

What is Cyber Security?

Cyber security refers to the body of technologies, processes, and practices designed to protect networks, devices, programs, and data from attack, damage, or unauthorized access. Cyber security may also be referred to as information technology security.
In easy words, cyber security means protecting data, networks, programs and other information from unauthorized or unattended access, destruction or change.

Why Cyber Security is important?

Cyber Security is important because government, military, corporate, financial, and medical organizations collect, process, and store unprecedented amounts of data on computers and other devices. A significant portion of that data can be sensitive information, whether that is intellectual property, financial data, personal information, or other types of data for which unauthorized access or exposure could have negative consequences. Organizations transmit sensitive data across networks and to other devices in the course of doing businesses, and cyber security describe the discipline dedicated to protecting that information and the systems used to process or store it. As the volume and sophistication of cyber-attacks grow, companies and organizations, especially those that are tasked with safeguarding information relating to national security, health, or financial records, needs to take steps to protect their sensitive business and personnel information. As early as March 2013, the nation's top intelligence officials cautioned that cyber-attacks and digital spying are the top threat to national security, eclipsing even terrorism.
In today's world, cyber security is very important because of some security threats and cyber-attacks. For data protection, many companies develop software. This software protects the data. Cyber security is important because not only it helps to secure information but also our system from virus attack. After the U.S.A. and China, India has the highest number of internet users.

CHALLENGES OF CYBER SECURITY
For an effective cyber security, an organization needs to coordinate its efforts throughout its entire information system. Elements of cyber security encompass all of the following:
Network security
Application security
Endpoint security
Data security
Identity management
Database and infrastructure security

Cloud security
Mobile security
Disaster recovery/business continuity planning
End-user education
The most difficult challenge in cyber security is the ever-evolving nature of security risks themselves. Traditionally, organizations and the government have focused most of their cyber security resources on perimeter security to protect only their most crucial system components and defend against known treats. Today, this approach is insufficient, as the threats advance and change more quickly than organizations can keep up with. As a result, advisory organizations promote more proactive and adaptive approaches to cyber security. Similarly, the National Institute of Standards and Technology (NIST) issued guidelines in its risk assessment framework that recommend a shift toward continuous monitoring and real-time assessments, a data-focused approach to security as opposed to the traditional perimeter-based model.

MANAGING CYBER SECURITY

The National Cyber Security Alliance, through SafeOnline.org, recommends a top-down approach to cyber security in which corporate management leads the charge in prioritizing cyber security management across all business practices. NCSA advises that companies must be prepared to "respond to the inevitable cyber incident, restore normal operations, and ensure that company assets and the company's reputation are protected." NCSA's guidelines for conducting cyber risk assessments focus on three key areas: identifying your organization's "crown jewels," or your most valuable information requiring protection; identifying the threats and risks facing that information; and outlining the damage your organization would incur should that data be lost or wrongfully exposed. Cyber risk assessments should also consider any regulations that impact the way your company collects, stores, and secures data, such as PCI-DSS, HIPAA, SOX, FISMA, and others. Following a cyber-risk assessment, develop and implement a plan to mitigate cyber risk, protect the "crown jewels" outlined in your assessment, and effectively detect and respond to security incidents. This plan should encompass both the processes and technologies required to build a mature cyber security program. An ever-evolving field, cyber security best practices must evolve to accommodate the increasingly sophisticated attacks carried out by attackers. Combining sound cyber security measures with an educated and security-minded employee base provides the best defense against cyber criminals attempting to gain access to your company's sensitive data. While it may seem like a daunting task, start small and focus on your most sensitive data, scaling your efforts as your cyber program matures.

-Manan & Aastha

Reason for drone delivery not possible in densely populated area.

Your dream to get a pizza delivered by a drone or an Amazon drone knocking at the door will remain a dream as researchers have revealed that a drone delivery service is not realistic and may not be possible in densely-pulated areas. The reason is simple: Demand for drone delivery in e-retail is high but the ability to meet that demand is very low. For a city like New York, the optimal design for the test locations, based on all factors, is three drone facilities covering 75% of NYC area and 34% of the population. "Opening a fourth facility increases area and population coverage to 84% and 38%, respectively, but the increase in operation cost is not enough to cover the facility costs," said the researchers from University of Waterloo in Ontario, Canada. "We analyse the tradeoffs between distribution costs and revenues under varying social difficulties with drones like customer preferences and regulatory and technological limitations," said Fatma Gzara, a professor in the Department of Management Sciences at Waterloo. "We then can make educated decisions on how many facilities to open, which services to offer at that facility and which services to make available to customers in certain areas," she added. The new research, published in the journal Transportation Science, looked at how possible and desirable it is to use drones for delivery for e-retailers considering cost and effectiveness in certain population areas and in certain locations. The study, conducted by Gohram Baloch and Gzara, used New York City as an example and looks at data surrounding the Manhattan area. The authors separated the area into boroughs based on population and size. Baloch and Gzara said they chose New York because the world's largest e-retail company, Amazon, first started its 2-hour delivery services in the Big Apple. "Our results show that government regulations, technological limitations, and service charge decisions play a vital role in optimal configurations and drone target markets," said Gzara. "Under current drone landing capabilities, a drone delivery service may not be possible in a densely populated area like Manhattan where demand for such a service is expected to be high," the researchers wrote. e-retailers can reach smaller markets and more price-sensitive customers by possibly offering discounts on drone-delivered orders, the findings showed.

-Mahesh , MCA 4th Sem

RAPE CULTURE IN INDIA

We always consider dowry systems or murder cases or any other small town issues as a really big problem of our country but guys let me tell you, these issues are nothing in front of the rape cases. The entire country is pigeonholed into a rape country. It is reported that at every 20 minutes ,a woman is raped in India . It is widely acknowledged that rape is a major public health problem on college campuses ,with studies suggesting that 3% of college women are raped during a 9 month period . The shattering impact of rape on victims is well recognized including negative consequences on physical health ,mental health and also interpersonal relationships. And most of the times the rapists are not held accountable for their actions rather a belief is made that the way a woman dresses or acts indicates that "she asked for it "or that rape occurs because men cannot control their sexual impulses .

"Rape is not a dirty secret , it's a violent crime" It is troubling that such a small proportion of reported rapes make it to court but most disturbing of all is the reason why so many people keep their sufferings to themselves: because they do not think they will be believed. It is a shame that victim feels they cannot come forward. We all are living in the 21st century but still we are unable to unite our society against women rights. Why always women have to give a character certificate? Why always women should be judged? Why men cannot do wrong? But it's a high time to wake up and to raise the voice against all the inappropriate practices. All men should get the education regarding women's dignity and respect given. Every girl should raise her voice against injustice done to them

 Also,Women helpline scheme has been providing 24 hours emergency and non-emergency referral and information services to women affected by violence, both in public and private spaces by linking them with appropriate authorities such as police, NGO's etc.

The government has also introduced a Central Victim Compensation Fund (CVCF) scheme, with an initial corpus of Rs 200 crores to enable support to victims of rape, acid attacks, human trafficking and women killed or injured in the cross border firing

You choose-to not wait for change, but to make it happen. You choose –to take action for the rights of girls everywhere, to an education to safety, to a living, life.

Change is choice you make today. And when change comes, you can be proud that you played a part in bringing it home.

<div align="center">-Palak & Meenu</div>

UNTOLD STORIES of Delhi Riots by RAJAN SALUJA

I would like to elaborate some bitter truths in Delhi Riots and facts which have emerged through a haze of toxic rhetoric and fake news.

First, the violence was not a spontaneous clash or argument-gone-wrong between two groups of people, supporting or opposing the citizenship legislation. Every riot victim Media officials have talked, Muslim and Hindu, has spoken of the assaulters being complete strangers and outsiders to their immediate colony. In fact, within local communities, Muslims and Hindus have for the most part shielded each other. The pattern of violence and multiple eyewitness accounts all point to a deliberate unleashing of men, armed with swords and irons rods, into targeted areas.

Second, notwithstanding a few good men in the police force who stood their ground and did their job courageously, and notwithstanding the fact that in parts of north-east Delhi, the police too came under ferocious attack, the police, for the most part, has enabled this carnage.
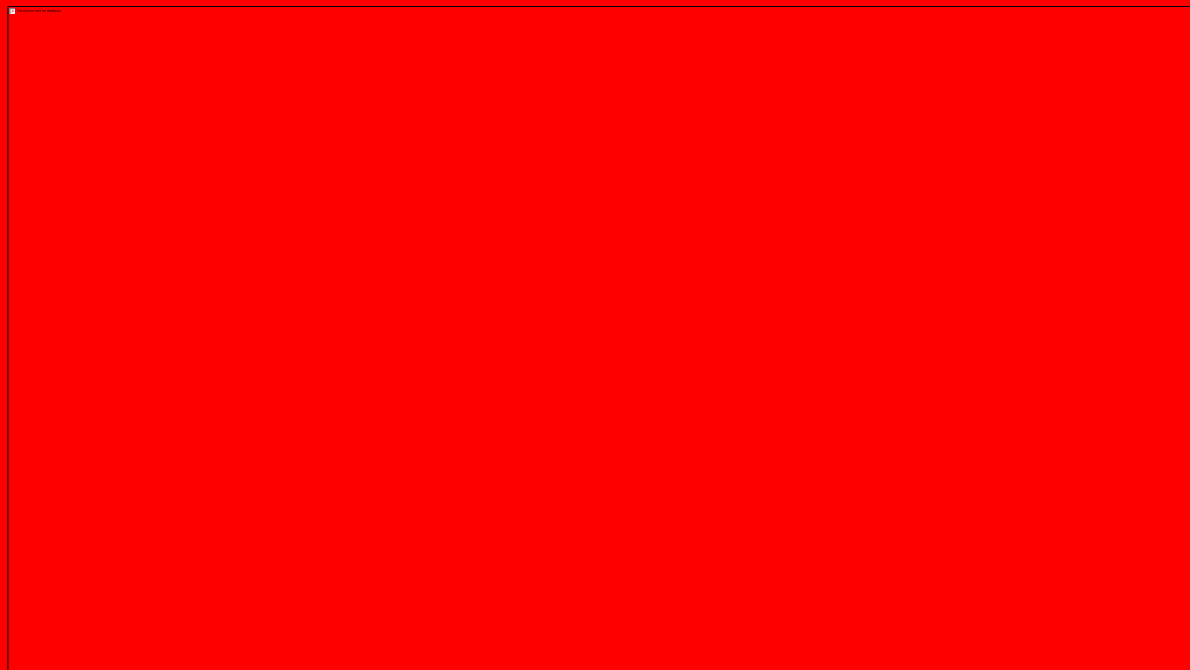
Though Right-wing trolls want to push a religious wedge through the debate over the role of the police, please talk to victims. Once again, you

will find Muslims and Hindus saying the exact same thing — the police, was at best, unresponsive. Hundreds of SOS calls were not taken seriously. Sunita, the wife of Prem Singh, a poor rickshaw puller, who was shot dead when he stepped out to buy milk, was turned away from the police station when she went to file a missing person report. Hari Singh Solanki, whose young son, Rahul, was killed by the mob, told media, "Had the police responded on time my son may have been alive today." The exact same sentiment was echoed by Jitendra Kumar, the owner of Pandit Medicos, a small pharmacy that was burnt. The police failed people of both religions. But the ineptitude, haplessness or callousness was egregiously compounded by reports of communal bias and wilful complicity when it came to police action in Muslim neighbourhoods.

Media persons have met multiple victims who speak of the police charging at their houses alongside violent mobs.They have seen video evidence where policemen too are hurling stones. And there is the bone-chilling video, where young men are lying injured and bleeding on the road, pleading for help as the police purportedly make them sing the national anthem. Faizan, from that video, is dead. Media officials met the family of Kausar Ali, another young man from the video. He is critically injured and in hospital.

The third inconvenient truth: India has failed its riot victims twice over. The usually omnipresent politician who makes sure to insert himself into every photo-opportunity is entirely missing on the ground. Through the week, HT Media Officials have met abjectly poor people, whose poverty has amplified their grief and loss. Most cannot even afford the Rs 800 an ambulance run needs. (*Sources Hindustan Times & Times of India*)