Dr. Akhilesh Das Gupta Institute Of Technology & Management

PIXION

THE IT MAGAZINE

Aug-Dec 2020

PIXION

The IT magazine

"EDUCATION IS NOT THE LEARNING OF FACTS, BUT THE TRAINING OF MIND TO THINK."
-ALBERT EINSTEIN

A
TRIBUTE
TO
DR. AKHILESH DAS GUPTA

प्रेरकः सूचकश्चैव वाचको दर्शकस्तथा ।

*There is no greater tribute
to a guru than to maintain the
high standards he lived by;
Dr. Akhilesh Das Gupta's
legacy is one such that will
live on through his eminent
students and through the
beauty of his charitable work;
There was an intensity that
he brought to every movement
and thought he expressed;
An inspiring soul, a versatile
genius, a noble teacher whose
ideas will live forever with his charm.*
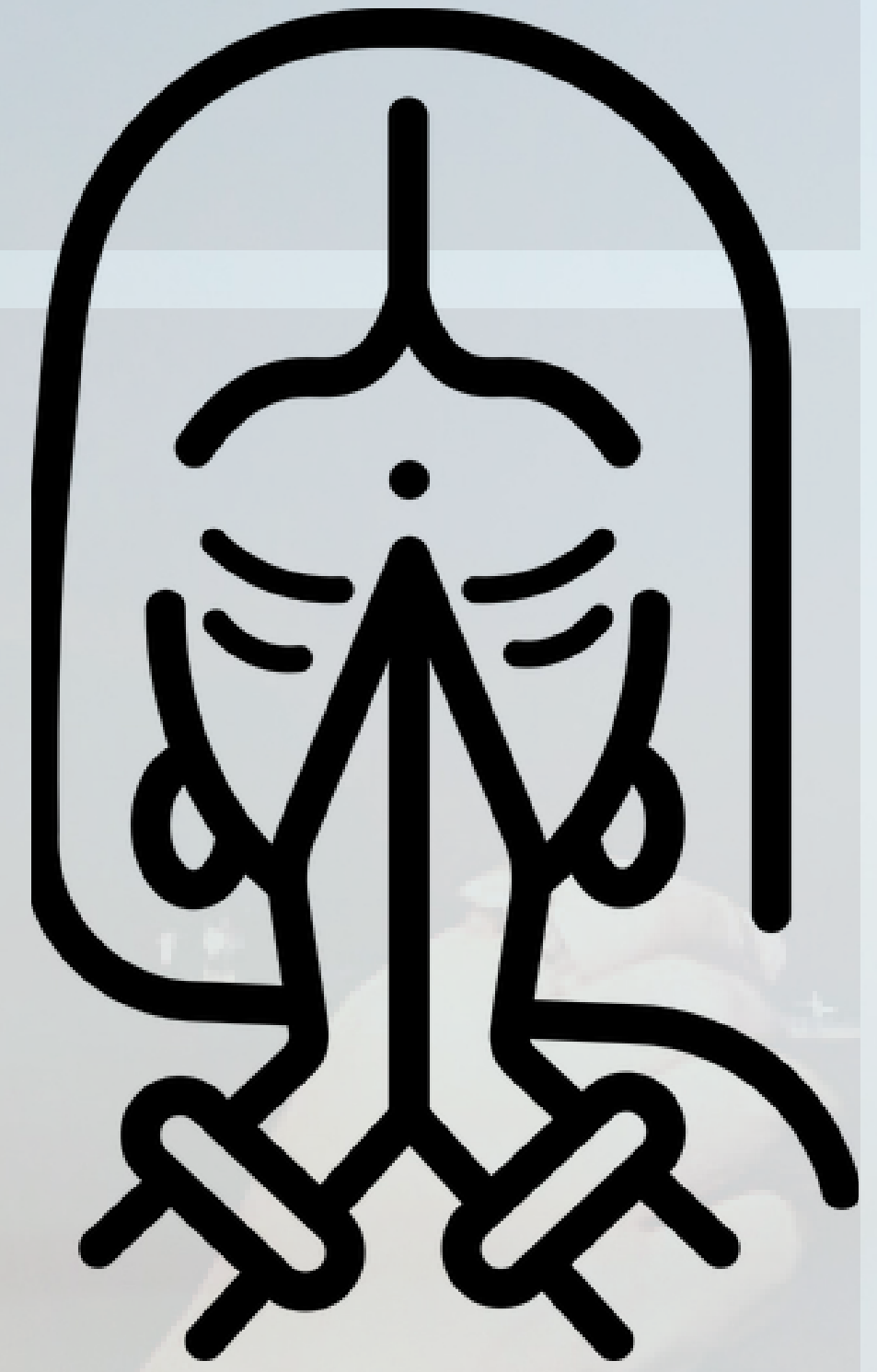
शिक्षको बोधकश्चैव षडेते गुरवः स्मृताः ॥

OUR PATRONS

Late Shri Babu Banarasi Das Ji (1912-1985)

Late Dr. Akhilesh Das Gupta (1961-2017)

Mrs. Alka Das Gupta

Mrs. Alka Das Gupta

Co-founder & Chairperson
BBD Group of Education

Innovation requires passionate explorers who propel transformation at work place. With ever changing global scenario, the key to success is responding to the complex and rapidly changing issues in the world of information technology. The Department of Information Technology of ADGITM is always in making efforts to justify these points.

We impart education that is based on consciousness and we rear a breed of young minds that are bustling with self-confidence, motivation and ever ready to take up challenges .The campus, sports and academic facilities all bear testimony to this effort. In order to promote an internationally acceptable education, our key focus has been on overall development.

The proficiency in computing technology has become essential for modern day managers, business leaders, entrepreneurs and other professionals. It is a welcome development . I look forward to PIXION 2020 setting a higher pedestal !

I wish to PIXION editorial team a grand success!

Shri Viraj Sagar Das
President
BBD Group of Education

I feel so delighted to find that the path of creativity and innovation is consistently followed by the Department of Information Technology. It always encourages its students to actively participate and compete in various competitions and events to show their abilities towards the new platforms of technology.

A great part of the magazine is the fact that it brings us a bouquet of topics which are of utmost relevance and interest to all. It is a great pleasure for me to get to know of all the activities and achievements of the Department of Information Technology of Dr. Akhilesh Das Gupta Institute of Technology & Management in the form of such an interactive read.

I convey my best wishes for the success of PIXION 2020.

Mr. S. N. Garg

Chief Executive Officer
Dr. Akhilesh Das Gupta Institute of
Technology & Management

Through the guidance of trained and inspired leaders, the students are taken across the gap of their present knowledge and experience and place data level of knowledge and competence that enables them to immediately step into the high standard of efficiency required in today's world of development.

We aim to cultivate talents by closely nurturing them throughout the whole programme. We are unique in terms of our programs, academic structure and core values. Our students are our assets. We develop our students to open them up in front of global scholarly endeavour. While the whole world is running after chances, it is essential to create your own opportunity.

Prof. (Dr.) Sanjay Kumar

Director
Dr. Akhilesh Das Gupta Institute of
Technology & Management

In his book On Becoming a Leader, Warren Bennis wrote,"No leader sets out to be a leader. People set out to live their lives, expressing themselves fully. When that expression is of value, they become leaders. So the point is not to become a leader. The point is to become yourself, to use yourself completely – all your skills, gifts and energies – in order to make your vision manifest. You must withhold nothing. You, must, in sum, become the person you started out to be, and to enjoy the process of becoming." We at Dr. Akhilesh Das Gupta Institute of Technology & Management believe in helping students to manifest their vision completely. How do we do this? We offer a rigorous education program rooted in all forms of practice, coupled with a vast array of electives and opportunities that come from our position of being affiliated to a major university. We give you the tools to continue learning and growing long after you leave our doors; we create opportunities for internships and experiences that broaden your horizons. I take this opportunity to express the fact that every effort is made to improve the existing best services to bring out the best for the welfare of our institution and the growth of our students.

Dr. Prashant Singh

HOD
Department of Information Technology
Dr. Akhilesh Das Gupta Institute of
Technology & Management

Welcome to have a view of the achievements and activities of the Department of Information Technology with the help of this semester publication of PIXION.

We are proud of our strong academic programs, which are based on theoretical and practical knowledge and match well with the requirements and demands of the industry. We have been working in the field of Network Security which is an emerging technology. Network security ensures the integrity, availability and performance of the network by protecting IT assets from various threats and attacks. We are committed to students by offering short term courses and pre placement training classes that foster critical and analytical thinking and build the necessary skills to succeed in the industry.

I am sure in times to come, many students from our department will make indelible mark nationally and internationally in the field of Information Technology and make us proud. The hard-working students, a young and dynamic faculty, whose expertise spans the range of disciplines in computer science stream and a very healthy work-culture, are the basic elements that comprise the Department of Information Technology.

The ADGITM Management

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Asst. Director(HR)

Dr. Yamini S.
Principal

Mr. S. N.
CEO

Garg   **Prof. (Dr.) Sanjay Kumar Director**   **Mr. Dilip Singh Sr. DY. Director (Construction)**

ADGITM VISION & MISSION

VISION

"To produce globally competent and socially responsible technocrats and entrepreneurs who can develop innovative solutions to meet the challenges of 21st century."

MISSION

- To provide value-based education through multi-grade teaching methodologies and modern education facilities.
- To sustain an active partnership program with industry and other academic institutes with an aim to promote knowledge and resource sharing.
- To conduct a value-added training programme to enhance employability.

PIXION

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"EDUCATION IS NOT THE LEARNING OF FACTS, BUT THE TRAINING OF MIND TO THINK."
-ALBERT EINSTEIN

ABOUT DEPARTMENT

"HUSTLE UNTIL YOU NO LONGER HAVE TO INTRODUCE YOURSELF."

DEPARTMENT AT A GLANCE

Department of Information Technology is committed to the values of:

-Teamwork;
-Reliability;
-Professionalism & Integrity;
-Efficiency & Effectiveness;
-Innovation;
-Excellence;
-Accountability;
-Continuous Improvement & Collaboration.

VISION OF THE DEPARTMENT

"To produce successful IT graduates with a strong technical background and managerial skills for promoting growth in industry and society. "

MISSION OF THE DEPARTMENT

M1: To provide managerial and professional skills among the students through value added programs.

M2: To provide an atmosphere where faculty and students can be engaged in continuous learning and contribute in the overall growth of the society.

M3: To provide industry oriented technical environment to help students excel in diversified fields.

FACULTY SECTION

"THEY INSPIRE YOU, THEY ENTERTAIN YOU, AND YOU END UP LEARNING A TON EVEN WHEN YOU DON'T KNOW IT"

OUR MENTORS

Our faculties are renowned scholars and accomplished practitioners who are actively engaged in the academic excellence and innovative research ideas of the world.

The service of the teachers in creating personally mature, professionally equipped and service oriented graduates is really worth mentioning. We strongly believe in academic excellence and do not compromise on teaching standards or discipline. These three things are the main pillars.

It has been the constant endeavor to comfort the students with all the necessary knowledge and skills. Whatever career a student may choose to take,hard work and discipline are the sure roads towards success. And the faculty of IT Department always supports students in achieving those golden ambitions and also ensure that their stay in the college is meaningful and fruitful as well.

FACULTY PUBLICATIONs/ SEMINARs/FDPs

Ms. Gunjan Chugh

1. Python Programming, Sep 2020
2. Outcome Based Education, Sep 2020
3. Neural Network and Deep Learning, ATAL Academy, Nov 2020
4. Artificial Intelligence, ATAL Academy, Oct 2020

Ms. Saijal Gupta

1. Python Programming, Sep 2020
2. Outcome Based Education, Sep 2020
3. Neural Network and Deep Learning, ATAL Academy, Nov 2020

Mr. Devender Banga

1. Blockchain and its Applications, Aug 2020
2. Outcome Based Education, Sep 2020
3. Matlab Tools and Applications, Aug 2020
4. Python Programming, Sep 2020

Ms. Monica Batra

1. Python Programming, Sep 2020
2. Outcome Based Education, Sep 2020
3. Neural Network and Deep Learning, ATAL Academy, Nov 2020
4. Data Sciences, Sep 2020
5. Blockchain and its Applications, Aug 2020

Ms. Arushi Gupta

1. Blockchain and its Applications, Aug 2020
2. Outcome Based Education, Sep 2020
3. Matlab Tools and Applications, Aug 2020
4. Python Programming, Sep 2020

STUDENT'S SECTION
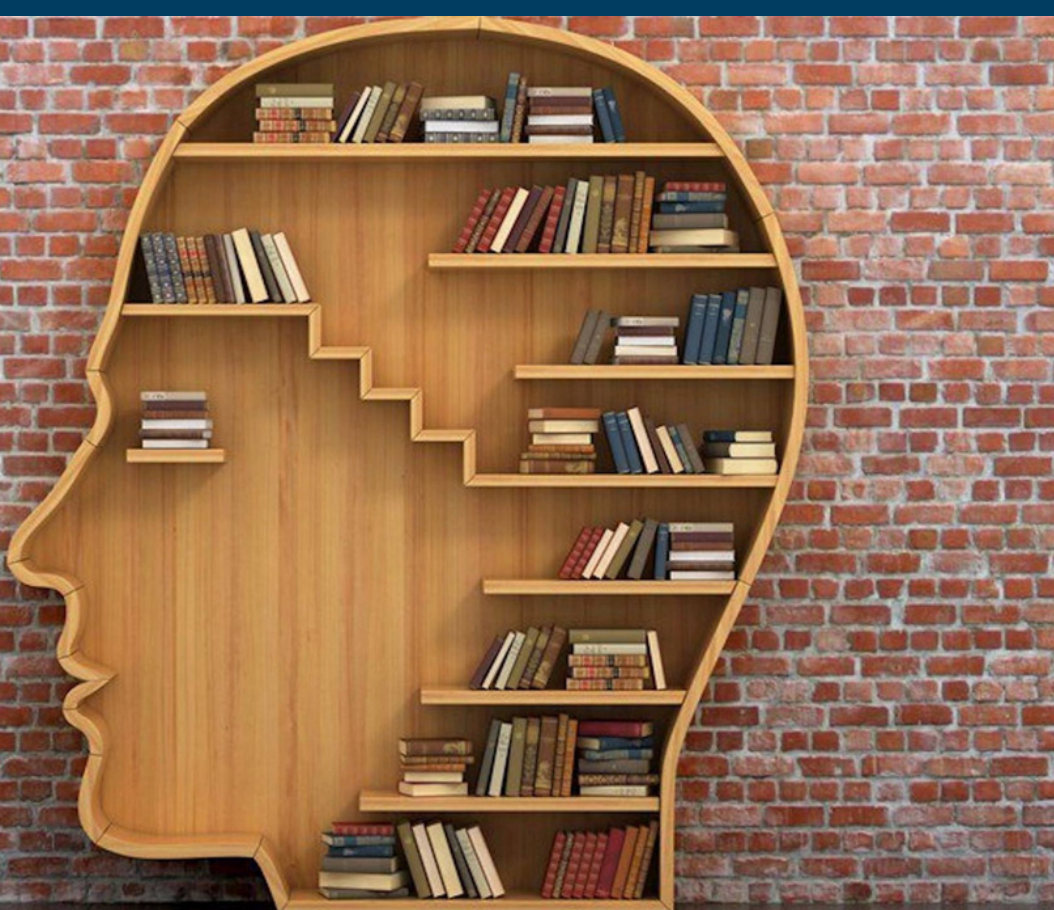
"YOU WILL EITHER STEP FORWARD INTO GROWTH, OR YOU WILL STEP BACKWARD INTO SAFETY."

ALUMNI SPEAK

Nishant Banga
Software Engineer, Apisero Inc.

ADGITM helped me in so many ways that I can't express in few lines. It has given me wings to dream big, to learn more, to handle failures and enjoy successes. .

For me, ADGITM was all about being associated with extremely supportive teachers(no less than friends). Wherever I reach in near future, I'll be always thankful to my college and teachers. I feel a lot of gratitude for ADGITM.

TECHNICAL ARTICLES

BLOCK Chain and Network Security

Blockchain technologies include various technique, like Cryptography, mathematics, Algorithm and economic model, combining peer-to-peer networks and using distributed algorithm to solve traditional distributed database synchronize problem.. Block chain include multi- field infrastructure construction. The blockchain technologies composed of six key elements.

Decentralized. The highlighted feature of blockchain, which state that blockchain doesn't rely on centralized node anymore, the data can be record, store and update distributedly in multiple distributed nodes that enhance it's capabilities compared to a centralized system..

Transparency. The data on block chain is transparent to each node, it also transparent on update the data, that will increase the trust.

Open Source. It is open to everyone, record can be check publicly and people can also use blockchain technologies to create any application they want.

Autonomy. Because of the base of consensus, every node on the blockchain system can transfer or update data safely, the idea is to trust form single person to the whole system, and no one can intervene it.

Immutable. Any records will be reserved forever, and can't be changed unless someone can take control more than 51% node in the same time.

Anonymity. Blockchain technologies solved the trust problem between node to node, so data transfer or even transaction can be anonymous, only need to know the person's blockchain address.

How Blockchain Works?

The main working of blockchain are :

1) New data generated by sending node and it also broadcast it in network.

2) Receiver authenticate the data before it's acceptance.

3) Receiving node execute the proof of work or proof of stack algorithms.

4) When network accepts the data it will continuously extend the chain base on this block.

The Majority Attack (51% Attacks)

With Proof of Work, the chances of mining a block depends on work of miner (e.g. CPU/GPU cycles spent checking hashes). Due to this mechanism, people on network wants to combine together in order to mining other blocks, and become "mining pools", a place where most computing power. Once it hold 51% computing power, it control this blockchain and this the time security concern raised.

If someone has more than 51% computing power, then he/she can find value quicker than others, means he/she has authority to decide which block is permissible.

What it can do is:

1) Modify the transaction data, it may cause double spending attack.
2) To stop the block verifying transaction.
3) To stop miner mining any available block.

A majority attack was more feasible in the past when most transactions were worth significantly more than the block reward and when the network hash rate was much lower and prone to reorganization with the advent of new mining technologies.

Fork Problems

Another issue is fork problem. Fork problem is related to decentralized node version, agreement when the software upgrade. It is a very important issue because it involving a wide range in blockchain.

Ms. Arushi Gupta
(Assistant Professor)

SHIVANSH SHARMA
(Student ,IT)

Trends That Are Changing Network Security

Technology in the network security space has been through many dramatic changes recently. New mobile operating systems, growing use of personal devices, and SaaS (software-as-a-service) delivery make securing the network a growing challenge. Enhancements in the network infrastructure that connect devices within or across the network make all these developments possible. We're seeing ever faster network connections, more remote users, and extensive upgrades to mobile networks. We need to think about security policies and where and how to provide protection. Below are the five trends we think will impact network security and your security strategy.

1. Mobile networks, VPNs and roaming users:

Today's connect-from-anywhere road warriors regularly test the traditional boundaries of network security. Firewalls are increasingly porous as employees access services from devices such as iPads, Android phones, tablets and PCs—all of which require security that mirrors but also improves upon PC solutions. Extending connectivity to small branch or home offices is also a focus for many organizations. Your network strategy needs to consider how to secure access across platforms over an expanding network perimeter.

2. Targeted attacks and APTs:

APTs (or advanced persistent threats) represent the next generation of Internet crimeware. For years network security capabilities such as web filtering or IPS played a key part in identifying such attacks (mostly after the initial compromise). As attackers grow bolder and employ more evasive techniques, network security must integrate with other security services to detect attacks. We'll need to evolve security capabilities in response to these threats in the coming years.

3. 1. Web application and web server protection:

The threat of attacks on web applications to extract data or to distribute malicious code persists. Cybercriminals distribute their malicious code via legitimate web servers they've compromised. But data-stealing attacks, many of which get the attention of media, are also a big threat.

Organizations used to focus security investment on PCs and preventing conventional malware from spreading to them and onto the network. Now, you need a greater emphasis on protecting web servers and web applications. Similar challenges lie ahead for emerging technologies such as HTML5. See our article HTML5 and Security on the New Web for more information on this trend.

1.   IPv6:

Major surgery for the Internet IPv6 is the new Internet protocol replacing IPv4, long the backbone of our networks in general and the Internet at large. Protecting IPv6 is not just a question of porting IPv4 capabilities. While IPv6 is a wholesale replacement in making more IP addresses available, there are some very fundamental changes to the protocol which need to be considered in security policy. Whether your organization adopts it later rather than sooner, make sure that IPv6 is on your network security agenda. For more on IPv6, check out our article Why Switch to IPv6.

2.   Contending with cloud services:

Small, medium and large enterprises are beginning to adopt cloud services and SaaS at a greater rate. This trend presents a big challenge for network security, as traffic can go around traditional points of inspection. Additionally, as the number of applications available in the cloud grows, policy controls for web applications and cloud services will also need to evolve.

Ms:Monica Batra
(Assistant Professor)

SHASHANK MANGAL
(Student ,IT)

Network Security

Network data attacks are on the rise. Combine the surge in remote working over the past 15 months and the fact human error accounts for almost a quarter (22%) of security breaches, and it's no surprise that just under half (46%) of UK businesses suffered a breach in 2020.

Despite the warning signs, IT leaders are often guilty of being unprepared for network data breaches. Detection systems can become quickly outdated, and often breaches aren't flagged until it's too late. The consequences alone should serve as ample warning to IT leaders – the financial penalties are unforgiving, and customer trust is easy to lose and even more difficult to regain.

It's critical, then, that organizations possess the ability to not only quickly identify when a breach is about to occur, but also how to respond when the inevitable occurs, allowing them to focus on working towards business goals and building customer confidence.

Nine Overlooked (Yet Extremely Common) Signs Your Network Has Been Breached

Often part and parcel of everyday business activity, it's crucial that businesses don't ignore these common, yet often neglected, indicators that a breach is about to, or already has, occurred:

1. Unusual login activity
2. Unusual file changes and database manipulation
3. The appearance of suspicious or unknown files
4. Locked accounts and changed user credentials
5. Missing funds or assets, such as intellectual property or sensitive data
6. Abnormal admin activity
7. Reduced internet speed
8. Unexpected loss in market share
9. Reduced competitive advantage.

For companies whose security concerns are low down in the pecking order, it can take weeks or even months before a breach is discovered. Even more concerning, more often than not, these reticent organizations are so oblivious that news of a breach often comes from third parties, such as security researchers, cybersecurity journalists, law enforcement, or worse of all, a customer themselves.

Getting to the Root of the Problem

Cause and effect. It's a simple mantra, but by being able to identify the origin of a cyber-breach, businesses are already in an infinitely better position to defend themselves against breaches. We've already discussed how basic human error is the root cause of most breaches and, while it's inevitable that mistakes happen, companies must foster a culture that educates its employees on spotting potential incidents themselves, rather than relying on overstretched and under-resourced security and IT teams. And, if someone misplaces a company device, establish that they should report it immediately so the data can be remotely wiped.

Companies must also strike a balance between granting employees' freedom and autonomy with work devices, and policing activity to such an extent that employees become resentful and frustrated. Unapproved social media sites and email sharing from unknown sources are both signs that a company is likely to experience an attack, whether that's in the form of malware, phishing, junk network traffic, or other fraudulent web apps. But, beware of becoming too 'Big Brother', it's likely to cause more harm to employee morale in the long run.

Prevention is Only Part of the Cure

The best CIOs and security managers are those who accept inevitability. They accept that breaches will happen, it's the nature of the security landscape, the nature of increasingly sophisticated cyber-criminals. Somehow, somewhere, and at some point, they will get in. But that doesn't mean that companies shouldn't implement as many preventative measures as possible. And it also doesn't mean that they shouldn't have fail safes in place to quickly identify and react when an attack does occur.

Prevention is only one ingredient of a successful approach to tackling cybercrime and ensuring data protection. The most effective way to identify breaches early is to use tools that are constantly scanning the network for discrepancies, anomalies and suspicious behavior.

**Mr. Gaurav
(Assistant Professor)**

**Taakshi Singh
(Student IT)**

Security Talk

In January 2020, India touched a landmark in terms of Internet users by becoming the 2nd largest internet user base with 560 million (mn) internet users. The number of internet users in India wll continue to increase – by end of 2021, the country is expected to have over 600 mn internet users, the user base more than doubling from the approximate 300 mn in 2016.

The traditional network security paradigm of network security is to not allow malicious users to enter the network has changed now. The explosion of the devices that connect to networks and the mobility aspect they come with makes this securing extremely challenging.

What is cybersecurity and why is it important?

Cybersecurity involves a set of processes aimed at protecting and recovering computer systems, devices, networks, and programs from cyberattacks. Cybersecurity encompasses everything that concerns the safety of our sensitive data, personally identifiable information, intellectual property, and governmental information systems so that they are not stolen or damaged by criminals.

Because of global connectivity and usage of cloud services, it's extremely important now to store personal information and sensitive data securely. Unfortunately, all people and organizations are at risk to suffer from a cyber-attack or data breach. But if you want to reduce this risk, read some recommendations below!

Cybersecurity tips for students

1.Update your software

Make sure that your operating system, browser software and apps are updated, so they can fix bugs and address security issues.

2.Ensure malware protection

Check if you have an antivirus with anti-phishing support installed on all your devices, including desktops, laptops, and tablets. Don't forget to set an automatic update and virus scanning at least once a week.

3.Think before sharing your research papers

Being a student is a real challenge that requires much effort. It's a common tendency to help each other by sharing assignments via email or on special websites. No matter how you share study materials, be careful about providing your personal information with them. Try not to reveal such details as a school or team name, home address, and your personal phone number.

4.Use secure configurations

When you configure your devices and apps, always keep security in mind. Remember that many of them have default "out-of-the-box" configurations geared more toward ease-of-use than protecting your information. Therefore, as you install something on your device, enable security settings, especially those that control data sharing.

5.Use networks wisely

To protect your data, don't provide your personal and financial information over unsecured public WiFi networks. Be careful in places with free WiFi, such as coffee shops, libraries as your data can be easily viewed by others. Instead, give preference to your smartphone's cellular signal to surf the Internet.

6. Create strong passwords

Passwords play a vital role in ensuring your security. That's why it's essential to use only strong passwords. You need to make it complex and unique for each account or system.

Getting started in cybersecurity

High-Value Security Skills

While there isn't a one-size-fits-all path to entering the security market, there are some specific skillsets organizations will undoubtedly look for when reviewing candidates. Some examples include:

1. Risk Identification and Management – In order to mitigate security risks, you must understand the threats. Identifying business, security, andcompliance risks is basic table stakes.

2. Technical Fundamentals – DevOps, programming and administration are fundamental skills for modern security professionals.

3. Data Management and Analysis – We live in a world of data. The volume of data is increasing exponentially and being able to analyze data in the form of log records and security notifications is the key. Data scientists and data officers are becoming an integral part of Security Operations teams.

4. Cloud – Having knowledge of cloud environments and cloud apps is a standard skill for many security professionals now. With the number of cloud services growing every year, organizations need talent that can understand what the apps do and the overall landscape, but also how to manage the access and risk associated with them.

5.latest automation technology and techniques can be a key driver in reducing friction from the security process.

6.Threat Hunting – Early detection can reduce risk, which is why many enterprises highly value threat hunting skills. In a world where it's not "if" but "when," having security professionals that can quickly identify and hunt threats is a requirement.

Cybersecurity is one of the most challenging and exciting professions today. There's a tremendous amount of opportunity for those with the right level of curiosity, skill and work ethic. If you're considering breaking into the field, I encourage you to start with the above guidance and insights.

Ms.Saijal Gupta
(Assistant Professor)

Praveen Chaudhary
(Student IT)

OUR RECRUITERS
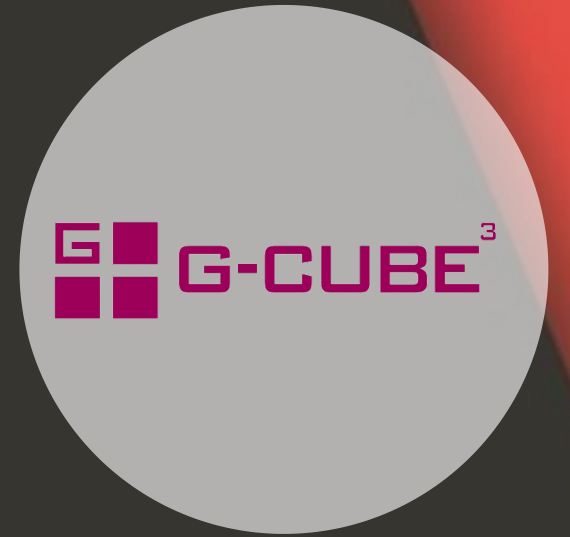
EVENTS SECTION

"Technology is best when it brings people together"

ALUMNI TALK
ON
SONATA: THE MARKET LEADING WEALTH MANAGEMENT SOLUTION USING JAVA

Dated: 08th September, 2020

Venue: Through online mode using GoToMeeting application link

Alumni : Ms. Radhika from Bravura Solutions

Highlights of the alumni talk:
Ms. Radhika discussed the following points with the students:
- Introduction about company 'Bravura Solutions': theme and main work.
- How the transition happens from college to corporate job?
- What is the most important thing to concentrate at in college, to get the dream job?
- What is the right attitude towards college and teachers?
- What all is require for the interview?

Beneficiaries:
B. Tech Information Technology, Second Year students (S9, S10 and S19)

ALUMNI TALK
ON
SOFTWARE DEVELOPMENT USING MULESOFT & JAVA

Dated: 10th September, 2020
Venue: Through online mode using GoToMeeting application link
Alumni : Mr. Nishant Banga, Software Engineer from Apisero Inc.

Highlights of the alumni talk:
Mr. Nishant Banga discussed the following points with the students:
• Introduction to API Development with Mulesoft and Java
• Basic Motto for graduation and then job.
• How to score good and importance of having good CGPA.
• What is the right time to start preparing for placements/ internships ?
• What to prepare and from where to prepare for internships/ placements ?
• Power of Linkedin, Internshala,, Naukari.com. etc

Beneficiaries:
B. Tech Information Technology, Third Year students (T9, T10 and T19)

FACULTY DEVELOPMENT PROGRAMME
ON
OUTCOME-BASED EDUCATION
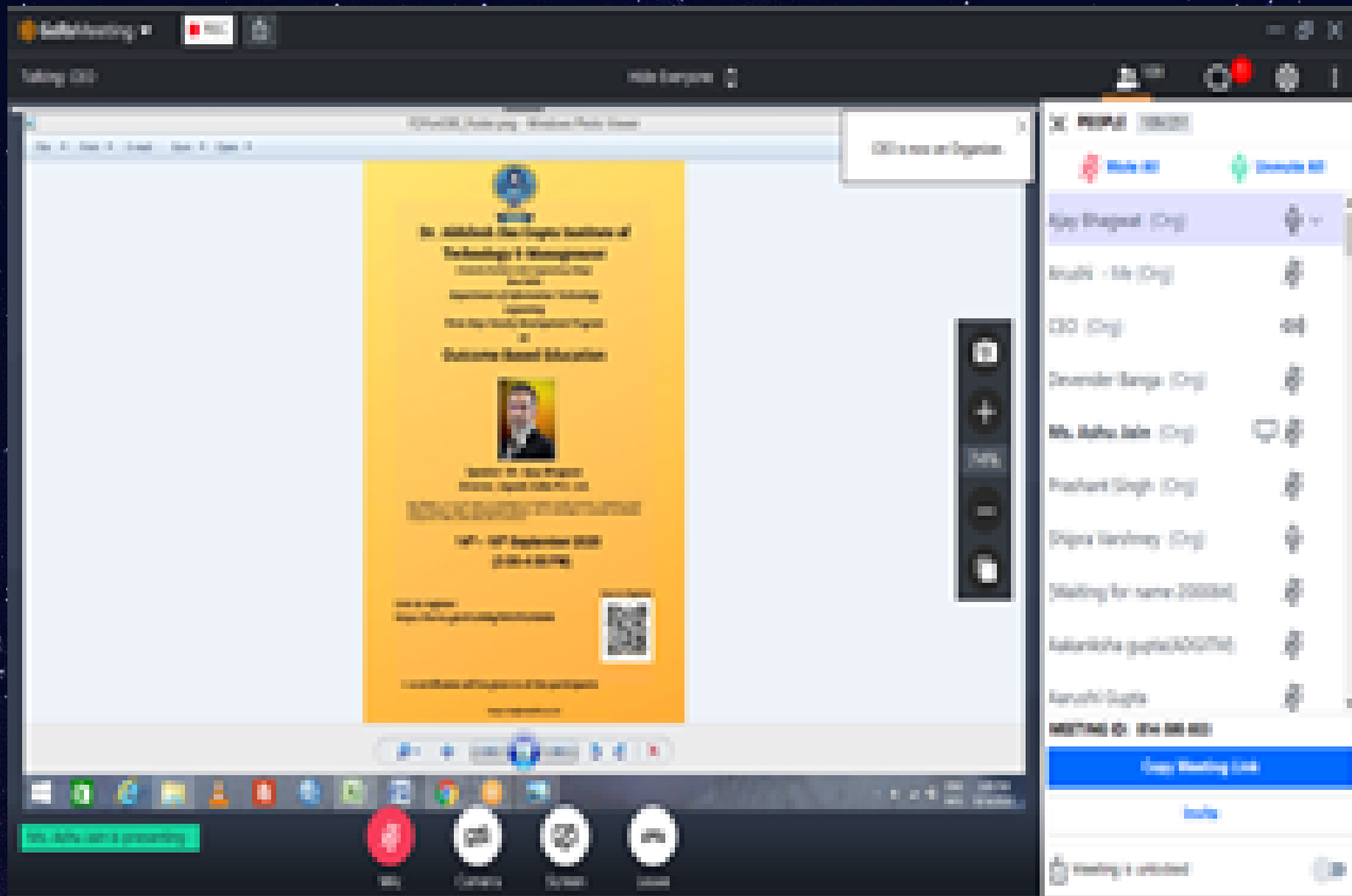
Dated: 14th - 16th September, 2020
Venue: Through online mode using GoToMeeting application link
Delegates: Mr. Ajay Bhagwat, Director, inpods India Pvt. Ltd.
Organizers: Department of Information Technology, ADGITM, New Delhi

Highlights of the FDP:
Mr. Ajay Bhagwat discussed the following points with the faculties:
- Fundamentals of outcomes based education
- Why is outcome based education important
- What are program outcomes
- Top down approach of Program Design
- Course Outcomes Designing: A foundation to improving students learning outcomes
- Mapping of COs with POs
- CO-PO Attainment computation and outcome analysis

Beneficiaries:
Faculties and staff members from various institutions/ university.

SEMINAR ON COMMUNICATION – THE HUMAN CONNECTION

Dated: 18th November, 2020
Venue: Through online mode using GoToMeeting application link
Delegates: Dr. Poonam Ahuja (Corporate Speaker)

Highlights of the Seminar:
The following points were discussed by Dr. Poonam Ahuja:
- Need of Communication.
- How to bring out the best in yourself.
- How you can improve your communication.
- What is the relation between Communication and Connect.
- How to improve the communication skills.

Beneficiaries:
Second year students of IT department.

WORKSHOP
ON
COMPUTER BASICS AND HARDWARE

Dated: 21st December, 2020
Venue: Lab No. 3, 2nd Block, IT Department
Delegates: Dr. Poonam Ahuja (Corporate Speaker)

Highlights of the Workshop:
- Ms. Charul Dewan (Event Coordinator, IT) started the session and told the participants about the schedule to be followed.
- Dr. Prashant Singh (Head, IT) then explained about the benefits of the workshop. He interacted with the participants and told about the topics to be covered in the workshop.
- Mr. Ved Prakash and Mr. Devender Sharma (Lab Technicians, IT) then took over the session and discussed the basics of the computer, about MS Word. They also showed the hardware used in the computer.
- Hands-on practice session were also followed up.
- After the completion of session, a quiz was given to the participants.
- 13 Lab technicians of different departments participated in the workshop

Beneficiaries:
Lab Technicians of different departments.

SKILL DEVELOPMENT PROGRAM ON G-SUITE BASICS

Dated: 02nd March, 2020
Venue: Lab 1, Department of Information Technology, Dr. Akhilesh Das Gupta Institute of Technology and Management, Delhi

Details of the Event:
- Students of Govt. SarvodayaBalVidyalaya, GautamPuri came to ADGITM college to attend the workshop on G Suite Basics.
- It is as per scheme (Skill India Mission) under which NSQF project is being run and school has arranged an Industrial Visit for 10th class students.
- 25 students participated in the event and this was organized by IT department.
- The topic of the workshop was "G Suite Basics". The session was taken by Dr. Prashant Singh (HOD, IT) and Ms. Saijal Gupta(Asst. Prof., IT).
- Ms. Saijal Gupta taught the students about the Google forms.

Beneficiaries:
Students of Govt. Sarvodaya Bal Vidyalaya, GautamPuri

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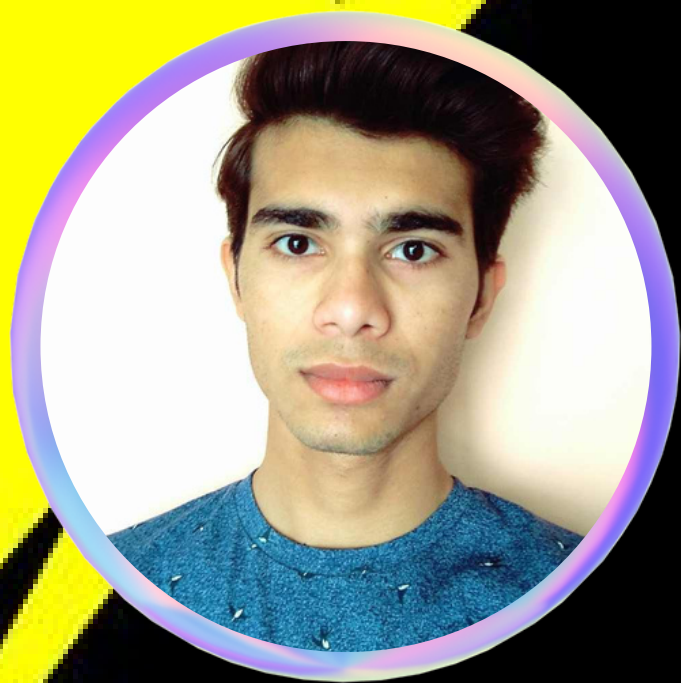
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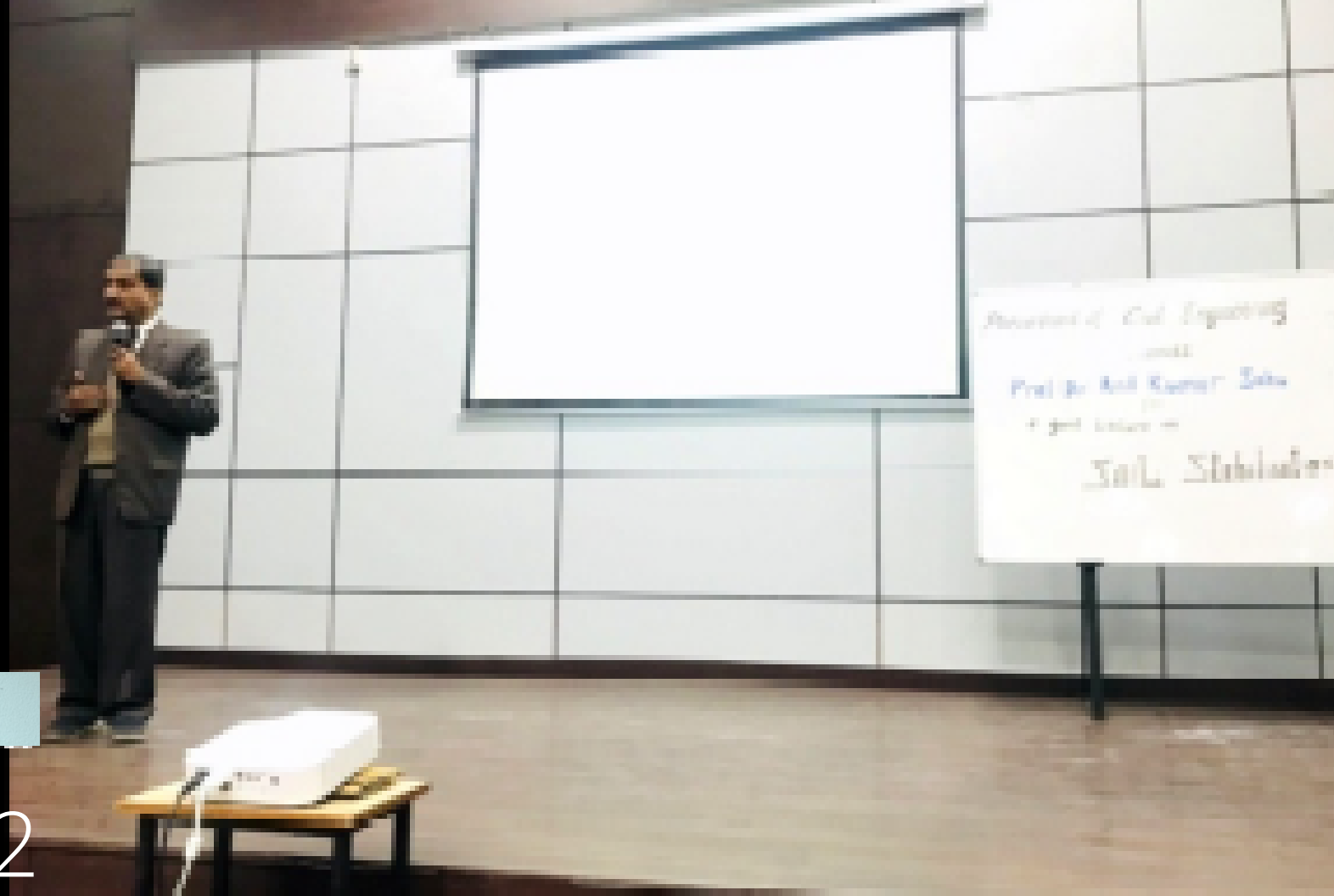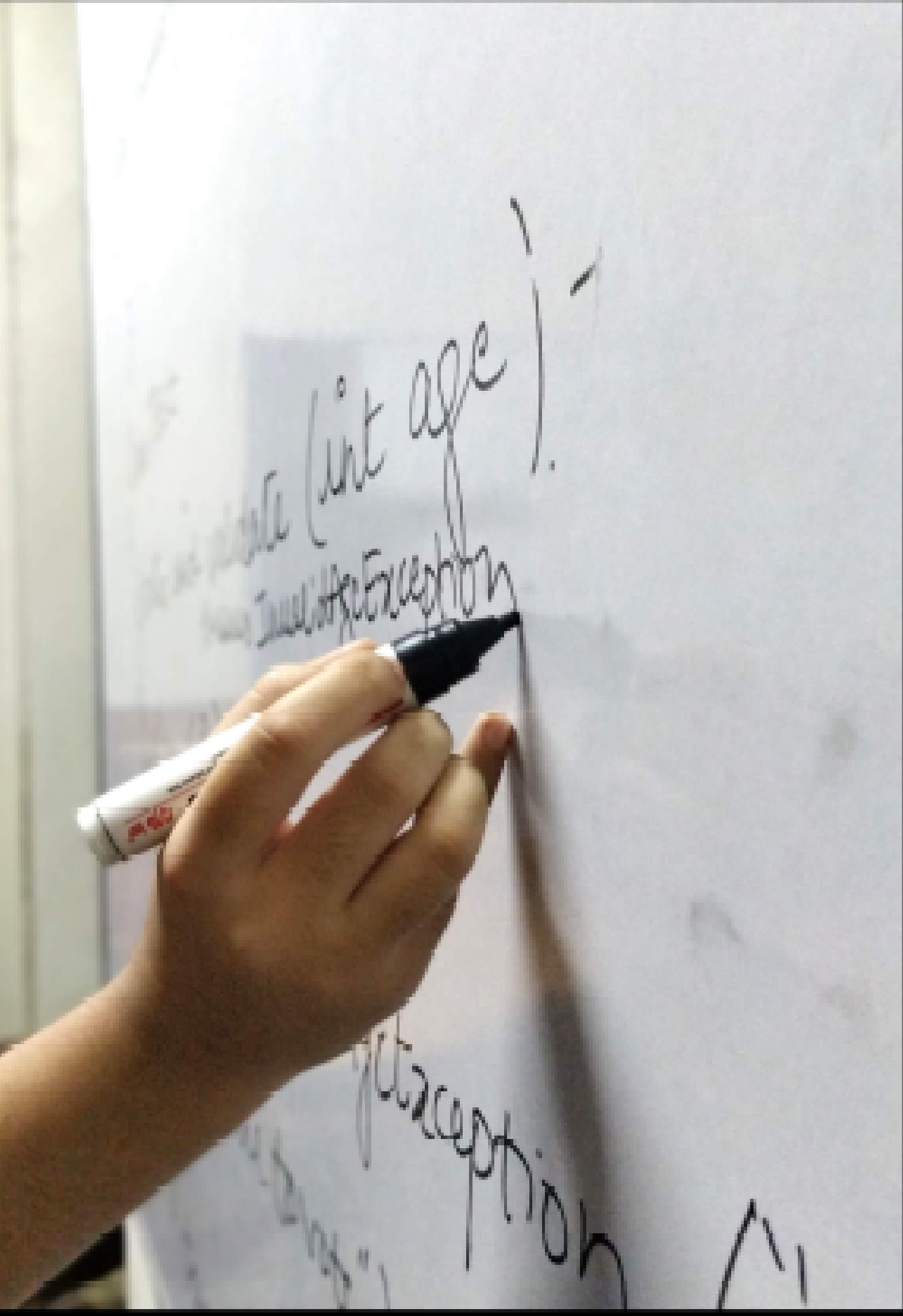
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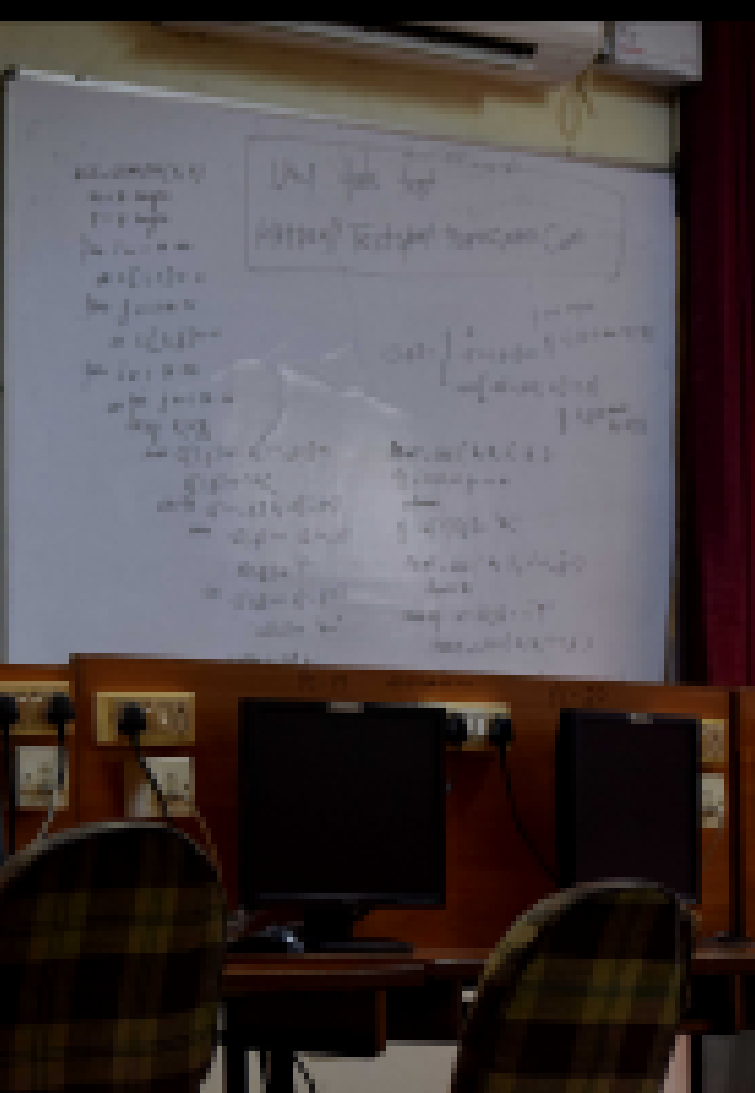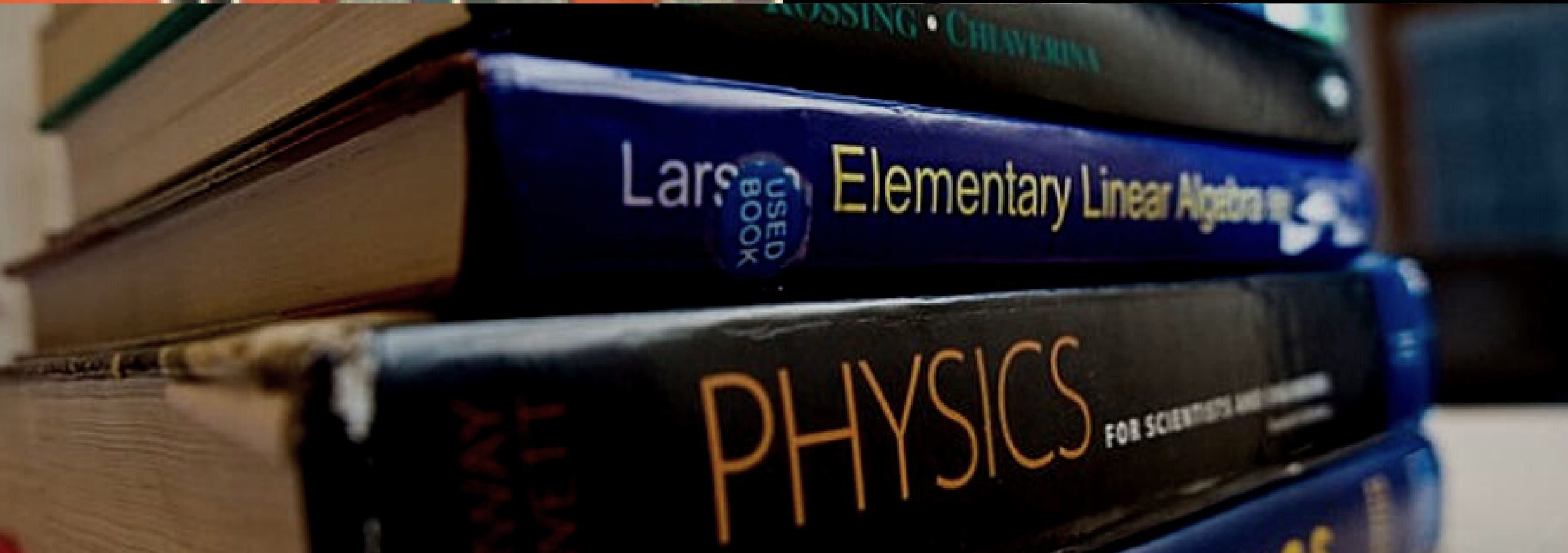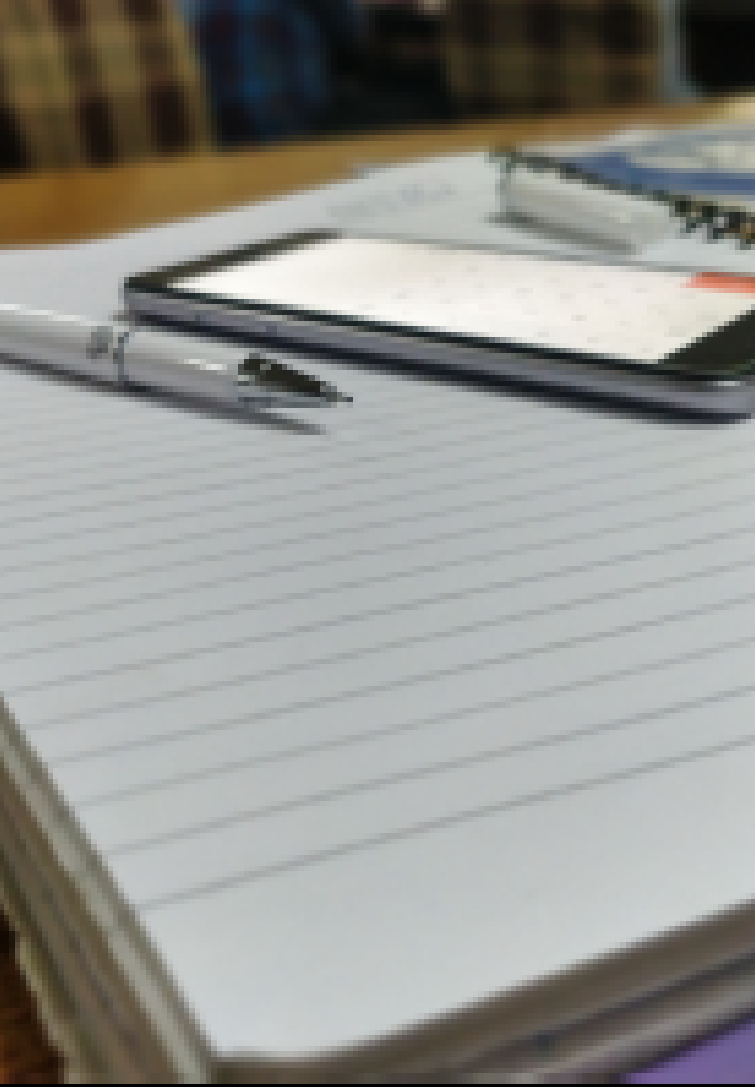
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-Bill Gates

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