Thank You

ˈthaŋk-ˌyü

a polite expression of one's gratitude

# BITS & BYTES

A DEPARTMENTAL NEWSLETTER

Aditya Silver Oak Institute of Technology

Department of Computer Engineering

**Dr. Pina Bhatt**
PRINCIPAL

**Dr. Irvin Singh Dua**
HOD

EDITORIAL TEAM

DESIGNERS

Karan Gadani
Yogiraj Brahmbhatt

ADVISOR

Prof. A R Kazi
Prof. Manish Singh

# INDEX

## Vision and Mission

### Vision

To create competent professionals in the field of Computer Engineering and promote Research with a motive to serve as a valuable resource for the IT Industry and society.

### 🌍 Mission 🚀

1. To produce technically competant and ethically sound Computer Engineer professionals by imparting quality education, training, hands-on experience and value base education.

2. To inclucate ethical attitude, sense of responsibility towards society and leadership ability required for a responsible professional computer engineer.

3. To pursue creative research, adapt to rapidly changing technologies and promote self-learning approach in Computer Engineering and across disciplines to serve the dynamic needs of industry, government and society.

# Program Educational Objective

## PEO-1

To provide the fundamental of Science, Mathematics, Electronics, and Computer science and Engineering, and Skills for a successful IT Professional.

## PEO-2

To provide scope to learn, apply skills, techniques, and competency to use modern engineering tools to solve computational problems.

## PEO-3

To enable young graduates to adapt to the challenges of evolving career opportunities in their chosen field of career including higher studies, research avenues, entrepreneurial activities etc.
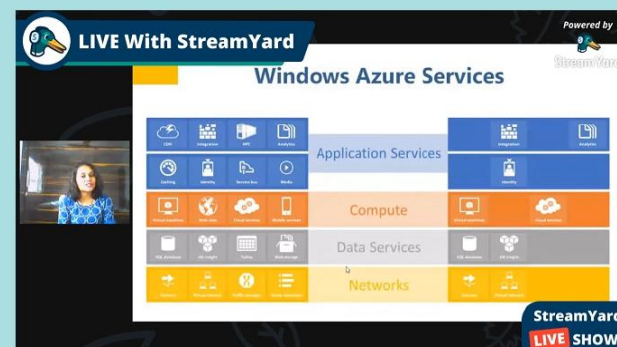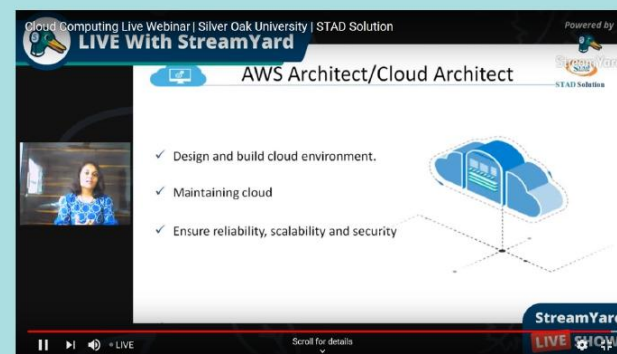
## PEO-4

To inculcate life-long learning aptitude, leadership qualities, and teamwork ability with a sense of ethics for a successful professional career in their chosen field.

# Program Outcomes

1. Engineering knowledge: Apply the knowledge of Mathematics, Science, Engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using the first principle of Mathematics, Natural Science, and Engineering Science.
3. Design/Development of solutions: Design solutions for complex engineering problems and design systems components of processes that meet the specified needs with appropriate consideration for public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigation of complex problems: Use research-based knowledge and research methods including design of experiments, analysis, and interpretation of data, and synthesis of the information to provide valid conclusions.
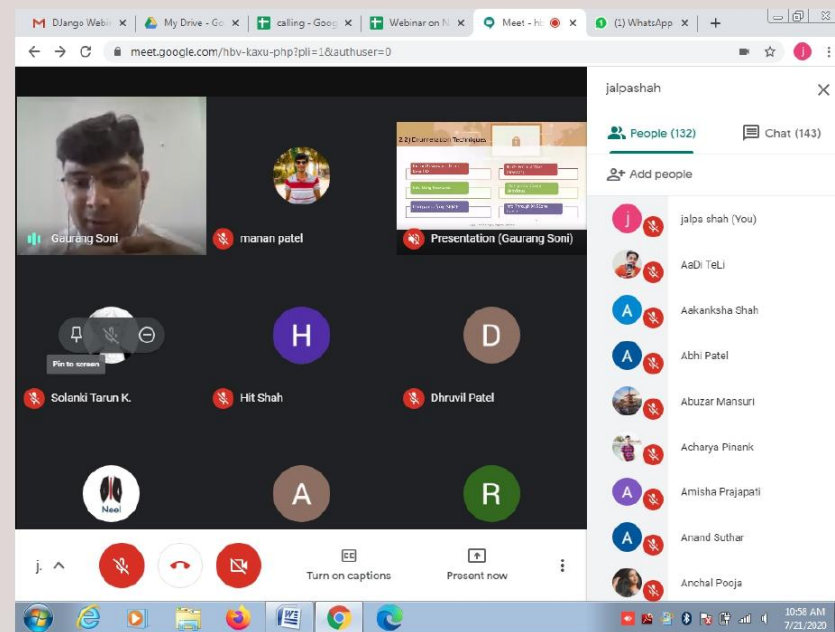
# Cloud Computing - The next big thing.!

Cloud Computing is the Next Big Thing. It is the on-demand availability of computer system resources, especially data storage & computing power, without direct active management by the user. To teach students about the architecture of cloud computing as well as practically where it is used, its benefits, and its application in the real world; a webinar on Cloud computing was organized by **Prof. Murti Patel** on 13/07/2020 for the 6th semester and 8th-semester Computer Engineering students. The webinar was delivered as a YouTube Live, where field expert Ms. Richa Mehta (CTO, STAD Solutions) taught students about what is cloud, its types, models, and service providers, deployment of cloud as well as job roles offered in cloud computing. Amazon and Azure cloud services were also explained well by her in the session. More than 250 students satisfactorily attended the webinar.
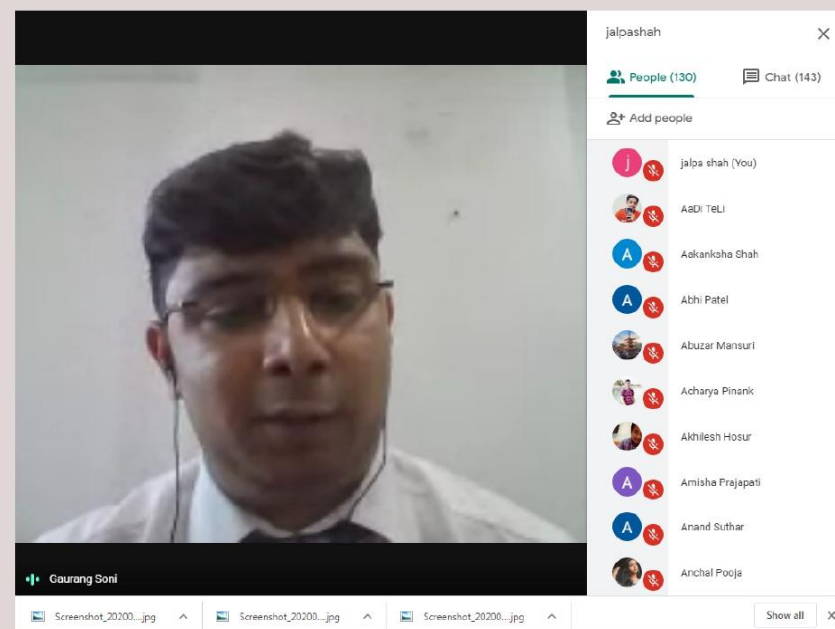




# Security Awareness

An interactive webinar on Security awareness was conducted by NextGen Security which is a security systems integrator that offers industrial companies best in class industry knowledge, engineering design, implementation, management & ongoing maintenance services. The event was held on 21/07/2020 on the Google Meet platform, where more than 150 students of 5th and 7th-semester Computer Engineering availed the knowledge. The 1.5-hour event was coordinated by **Prof. Jalpa Shah**, in which the expert **Mr. Gaurang Soni** (Founder & CEO, GSDP Technologies Pvt. Ltd.) spoke on several topics such as Network Security: Hands-on experience in configuring and troubleshooting of Firewall like Fortinet, Cyberoam, Sophos, Sonicwall with features like Web Filter, Application Filter, IPS, AV, IPSec, and SSL VPN, Routing, Policy Routing, WAN Load Balancing, etc. Network Switching: Configuration and troubleshooting L3 and L2 switches of Cisco, HP, Dlink, Plexonics, DAX, etc. with features like VLAN's, Stacking, Routing, Port Configuration, Port Security, SSH, Firmware up-gradation, SNMP, etc. Network Routing: Hands-on experience of configuring Router of Cisco 2900 and 1900 series with features like Static Routing, Dynamic Routing, IP SLA, MPLS configuration, SNMP configuration, etc.
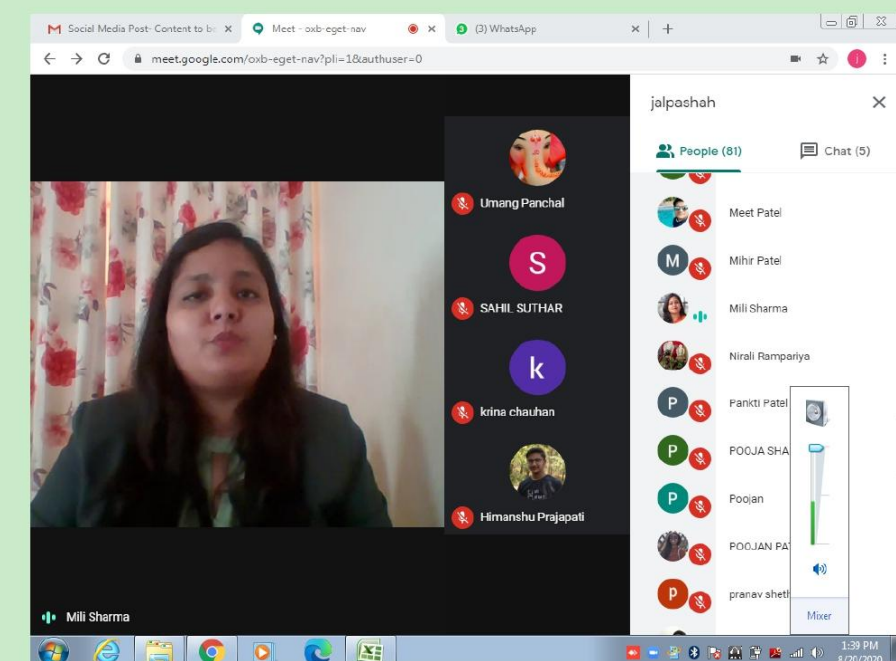
# Security Awareness



Students acquired ample knowledge on topics like Single Console Access, Multi-Layered Protection, Simplified Infrastructure, Optimal Use of Network Speed, Antivirus, Ransomware, and Spam Protection & Endpoint Security, Capability to Implement Role-based Access, etc.
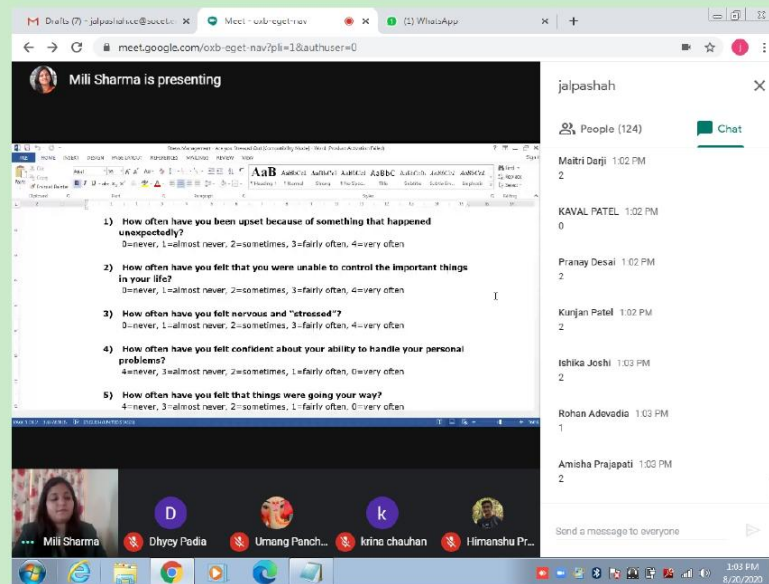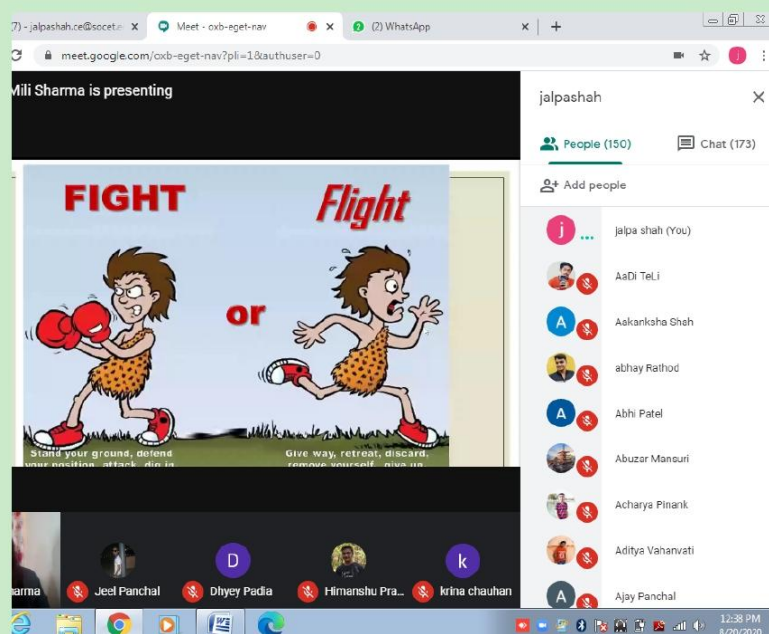


# Time and Stress Management

Time management is a way to manage the time for all the things one wants and needs to do. It helps to decide which things are urgent and which can wait. Learning how to manage time, activities, and commitments can be hard but doing so can make life easier, less stressful, and more meaningful. To serve this purpose, a webinar on Time and Stress Management was conducted by **Ms. Mili Sharma** (Soft skills trainer and Image Consultant) on 20/08/2020 on the Google Meet platform where more than 160 students of 5th and 7th-semester Computer Engineering learned the effective time managerial skills. The expert spoke on topics such as Leadership Skills, Team Management & Motivation, Interpersonal Skills, Goal Settings, Customer service ready, Sales ready, Managing conflicts, Vocal & verbal Communication, Interview skills, Time & Stress Management, Body Language & Etiquette, Power of First Impression, Public presentation, Importance of clothing and styling, Dining Etiquette, Personal Style etc.

# Time and Stress Management



This session was coordinated by **Prof. Jalpa Shah**, which impacted on aspects like Critical Thinking, Stress Management, Creative Thinking, Decision Making, Organizing Yourself, Personal Development, Personal Wellness, Problem Solving, and Time Management



# Agile Methodologies

Agile software development refers to software development methodologies centered around the idea of iterative development, where requirements and solutions evolve through collaboration between self-organizing cross-functional teams. The ultimate value in agile development is that it enables teams to deliver value faster, with greater quality and predictability, and greater aptitude to respond to change. Scrum and Kanban are two of the most widely used agile methodologies. A webinar on Agile Methodologies was organized on 12/09/2020 through Google Meet for the students of 6th and 8th-semester Computer engineering students. More than 80 students attended the event which was coordinated by **Prof. Murti Patel** and where the expert **Mr. Nishil Patel** (Co-founder of QAble and LinearLoop) taught about Scrum Method and other Agile Methodologies as well as Job roles offered in this field.
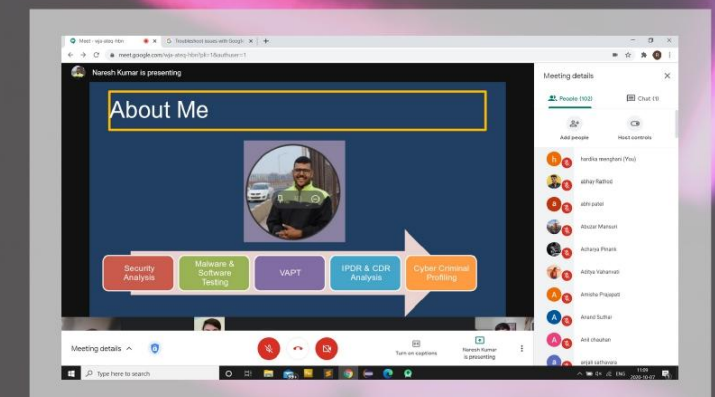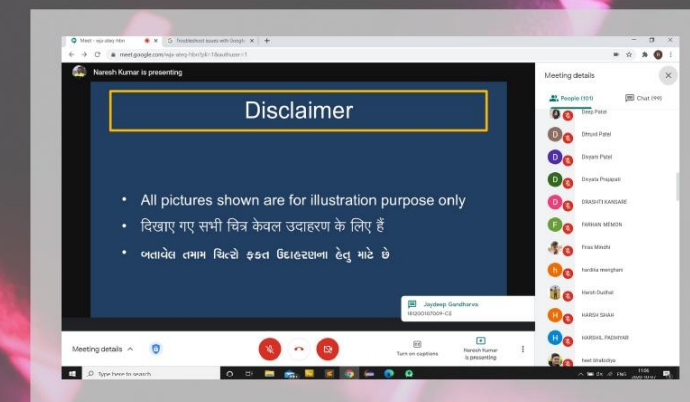
# Cyber Security

Cyber Security has nowadays become one of the most important parts of technology. The use of the internet is at its peak so the ratio of cybercrimes has also increased. So for students, it is necessary to understand the importance of cyber security and through this session, they were able to experience real-time working with cyber security with live implementation. Therefore a webinar on Cyber Security was organized by **Prof. Hardika Menghani** on 7/10/2020 for students of 5th-semester computer engineering in which expert of the field **Mr. Naresh Kumar** (SAER Technology) addressed the topics like What is Cyber Security, Why there is need of Cyber Security, Trends in the Usage of the Internet, Which are the types of cybercriminals, Different motives behind cybercrime, Types of cyberattacks and live practical on Password Cracking. In addition to this, he also discussed various real-time cases solved by cyber cells. More than 100 students actively participated in this session.



# Cyber Security

This session also has its impact on several aspects of POs like Importance of Cyber Security, Knowledge for password cracking, Network security, Scope of Cyber Security, Types of attacks and attackers, Real Time Crime Solving

# Also, check out our last newsletter.

JUNE 30, 2020 VOLUME 4 ISSUE 10

# BITS & BYTES

A DEPARTMENTAL NEWSLETTER

Aditya Silver Oak Institute of Technology

Department of Computer Engineering

**Dr. Pina Bhatt**
PRINCIPAL

**Dr. Irvin Singh Dua**
HOD

**EDITORIAL TEAM**

**DESIGNERS**
Karan Gadani
Yogiraj Brahmbhatt

**ADVISOR**
Prof. A R Kazi
Prof. Ujas Patel

---

**ASOIT**
ADITYA SILVER OAK INSTITUTE OF TECHNOLOGY
Transforming Lives

# ADITYA SILVER OAK
# INSTITUTE OF TECHNOLOGY
(Approved by A.I.C.T.E.)

**SILVER OAK**
Education to Innovation

Everybody should know how to program a computer, because it teaches you how to think

– STEVE JOBS

ADITYA SILVER OAK
INSTITUTE OF TECHNOLOG

BLOCK D