



Vidya Vikas Education Trust's

Universal College of Engineering

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ITS



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An Initiative By



Department of Information Technology

#SATYAVACHAN

*believe
in you.*

Staff Coordinators:

- Mrs. Sanketi Raut
- Mr. Akshay Agrawal

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3 ways to manage the threat of cyber-attacks in the automotive sector

Modern cars are filled to the gills with cutting-edge gadgetry and software tools. Such tools and gadgets serve a variety of purposes in cars and other modern vehicles —occupant safety, vehicle performance monitoring, temperature and climate controls and others. As cars and carmakers become more and more technologically advanced, they leave themselves susceptible to cyber-attacks. Like other businesses, organizations in the automotive business can use some of the following data security measures to safeguard themselves from such data security threats.

1) Implementing security-by-design:

Security by design is a holistic approach to data security in which every component of an organization contributes to its cyber security infrastructure in one way or another. Automotive companies need to implement cyber security by design that can defend them against nearly all cyber threats. Using a holistic approach like this to cyber security enables carmakers to safeguard the various phases of automotive development: design, development, building, installing hardware and software components and quality inspection.

2) Securing connected vehicles:

Autonomous vehicles and connected vehicles promise to represent the future of the automotive ecosystem in smart cities. The shared data network of such vehicles must be secured with intelligent firewall systems and cloud-based cyber security. Taking adequate measures to secure connected vehicles will be useful for making autonomous vehicles free of data security threats.

3) Discarding unused services when they expire:

Carmakers must discard the limited-duration software and hardware products when they expire. This includes decommissioning the apps, logins and user credentials associated with them. This prevents hackers from using them to initiate data breaches and attacks on the IT infrastructure of automotive companies.

Source: <https://gajshield.com/index.php/resources/gajshield-blogs/297-3-ways-to-manage-the-threat-of-cyber-attacks-in-the-automotive-sector>

**- MR. AKSHAY AGARWAL
(Assistant Professor)**

5 Important Future Trends in Data Mining

Businesses which have been slow in adopting the process of data mining are now catching up with the others. Extracting important information through the process of data mining is widely used to make critical business decisions. Some of the key data mining trends for the future include -

Multimedia Data Mining:

This is one of the latest methods which is catching up because of the growing ability to capture useful data accurately. It involves the extraction of data from different kinds of multimedia sources such as audio, text, hypertext, video, images, etc. and the data is converted into a numerical representation in different formats. This method can be used in clustering and classifications, performing similarity checks, and also to identify associations.

Ubiquitous Data Mining:

This method involves the mining of data from mobile devices to get information about individuals. In spite of having several challenges in this type such as complexity, privacy, cost, etc. This method has a lot of opportunities to be enormous in various industries especially in studying human-computer interactions.

Distributed Data Mining:

This type of data mining is gaining popularity as it involves the mining of huge amount of information stored in different company locations or at different organizations. Highly sophisticated algorithms are used to extract data from different locations and provide proper insights and reports based upon them.

Spatial and Geographic Data Mining:

This is new trending type of data mining which includes extracting information from environmental, astronomical, and geographical data which also includes images taken from outer space. This type of data mining can reveal various aspects such as distance and topology which is mainly used in geographic information systems and other navigation applications.

Time Series and Sequence Data Mining:

The primary application of this type of data mining is study of cyclical and seasonal trends. This practice is also helpful in analyzing even random events which occur outside the normal series of events.

Source: <https://www.flatworldsolutions.com/data-management/articles/data-mining-future-trends.php>

- MS. MUDRA DOSHI
(Assistant Professor)

India to become biggest refurbished smartphone market by 2026

According to Gartner Inc, global smartphone sales will grow by 6% in 2021, headed by Samsung in South Korea and Apple in the United States. Interestingly, recent reports reveal that the secondhand smartphone industry grew by 15% year over year (YoY). According to Counterpoint Research's Global Refurbished Smartphone Tracker, the global market for refurbished smartphones saw a jump in both demand and supply in 2021.

The survey, which was released last month, stated that new flagship smartphone prices remained high, prompting a greater number of buyers to seek refurbished handsets from well-known companies such as Apple and Samsung. Refurbished players have also matured since 2018, according to Counterpoint, and have been scaling up for higher volumes.

When it comes to pre-owned smartphones, India and Latin America lead the way with growth rates of 29 per cent and 25 per cent, respectively. Even the US, China, and Europe areas have had a considerable volume increase since 2020, according to Counterpoint.

According to Research Director Jeff Fieldhack, the India and LATAM markets experienced the highest growth rates in 2021 and have the most future potential growth in the next years. Due to Covid-19 lockdowns and other supply chain interruptions, there were secondary market supply shortages in 2020. In 2021, though, the market bounced back. He went on to say those flagships are in high demand, and the current flagships have the highest point-of-sale costs in India and Latin America.

Consumers may get these devices on the secondary market for 60 per cent less than they would cost new, according to Fieldhack. In the secondary market, flagships are particularly tempting because of their improved endurance and great quality. According to a separate estimate by Bengaluru-based market research firm Redseer, India's overall used electronics industry will expand at a 16 per cent compound annual growth rate (CAGR) by 2026, reaching US\$11 billion.

Siddharth Surana from Redseer also noted that the growth in popularity of e-commerce platforms for refurbished smartphones is currently driving the market demand. Startups and players like Cashify, HyperXchange, and Flipkart-owned Yaantra, which are owned by Flipkart, are fueling India's growth

Source: <https://bit.ly/3kYjc0U>

- MR. AKSHAY AGARWAL
(Assistant Professor)

Hands-on session on Python

A handson session was conducted on – Python by CodeChef College Chapter of UCoE on April 11th & 12th, 2022 from 10:30 am-12:30 pm & 1:30 pm-3:30 pm (IST). Total 65 participants have attended the session. The speaker for the session were Mst. Meet Bhanushali, Mst. Sasin Nisar, Ms. Yameen Vinchu & Mst. Ashutosh Upadhyay.

Participants were will be able to :

1. Indulge in an informative two-day hands-on workshop.
2. Develop beginner level projects in each dynamic.
3. Attempt a Quiz at the end of the two day workshop.
4. The first 2 winners of the quiz were able to win interesting rewards.

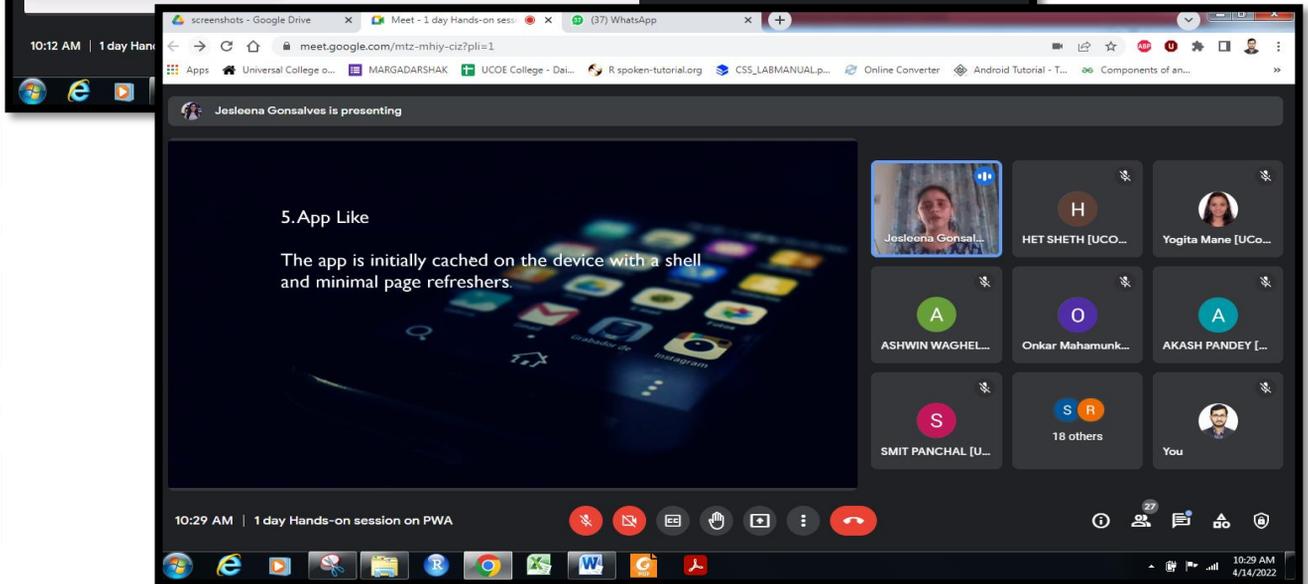
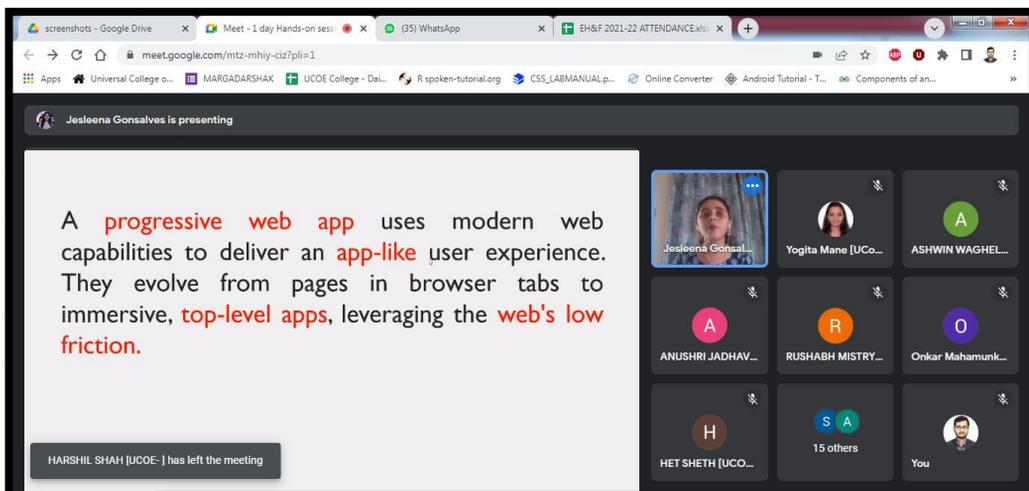


Online Hands-on session on Progressive Web Application

An Online hands-on session was conducted on – Progressive Web Application by ITSA & Department of IT of UCoE on Thursday April 14th, 2022 from 10:00 am - 01:30 pm (IST). Total 38 participants have attended the session. The speaker for the session was Ms. Jesleena Gonsalves, Faculty, St. Francis Institute of Technology, Borivali

Participants were will be able to :

1. Understand various PWA frameworks and their requirements.
2. Design and Develop a responsive User Interface by applying PWA Design techniques.
3. Develop and Analyze PWA Features and deploy it over app hosting solutions.



Farewell Celebration for BE students of AY 2021-22 Batch

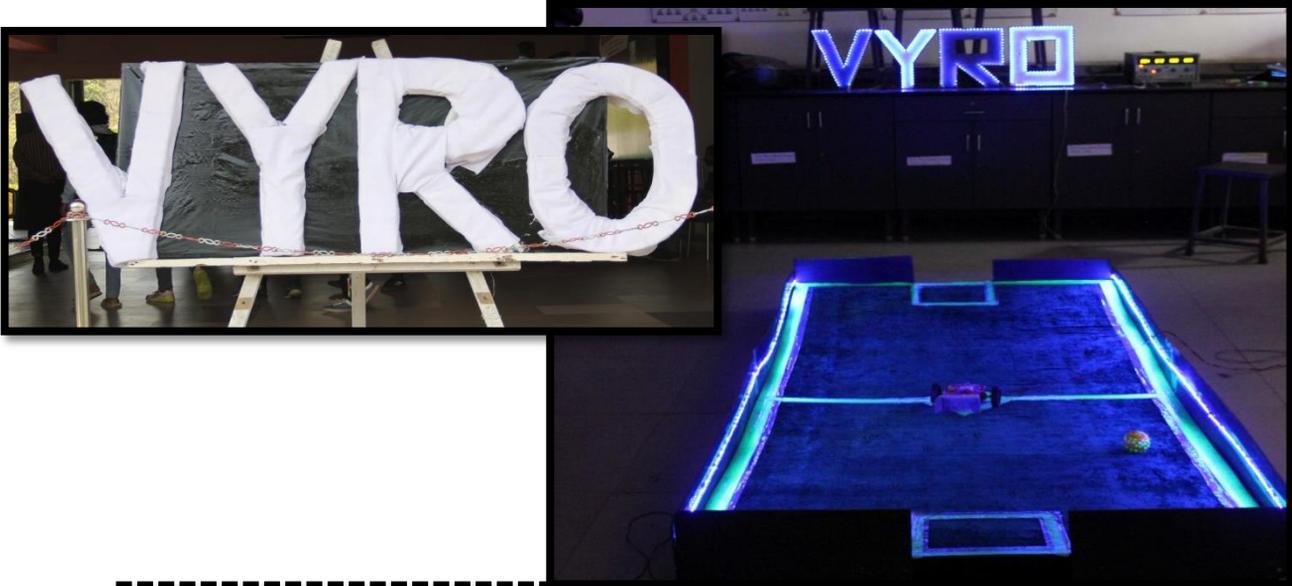
Farewell is the best time to get all the memories back. So like that, UCoE had celebrate this party for BE students of AY 2021-2022 Batch on Saturday, 30th April, 2022 at Universal College of Engineering. Performances such as dance, solo and group singing was organized for the entertainment purpose. Dinner was served at the end. We said good bye and wished all the best to our Final year students for their future endeavors.





**Felicitation of
Dr. Yogita Mane by
Dr. Jitendra Patil on
behalf of Universal
Education group for
successfully
completing Ph.D.
from Mumbai
University.**

Glimpse of Vyro 2K22 - National Level Technical Festival



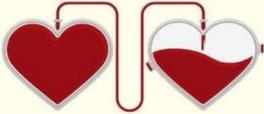
Tie / Saree / Traditional Day







Vidya Vikas Education Trust's
Universal College of Engineering
 Near Bhajansoni & Puryadham, Kaman Bhiwandi Road, Vasai
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**BLOOD
DONATION
DRIVE 2022**

May 9th, 2022
 10:00 AM to 4:00 PM
 Girls Common Room (GCR)
 Universal College of Engineering

 @nss.ucoe
  @rcucoe

Blood Donation Camp by NSS – UCoE id organised on May 9th, 2022

Mother's Day is a celebration honoring the mother of the family or individual, as well as motherhood, maternal bonds, and the influence of mothers in society.

08th May, 2022

Announcement for Higher Semester Students



ESE Examination of S.E., T.E. & B.E. will be commencing from 17th May, 2022.

All the Best everyone..!!!

Scan for previous edition



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