



Vidya Vikas Education Trust's

Universal College of Engineering

Approved by AICTE, DTE, Maharashtra State Government and Affiliated to Mumbai University

Accredited with 'B+' Grade by NAAC | Recognized as a Linguistic (Gujarati) Minority Institute

Volume 04 | Edition 04 | October 2021



An Initiative By

ITSA

Department of Information Technology

#SATYAVACHAN

A seed grows with
no sound, but a tree falls with
huge noise. Destruction has
noise, but creation is quiet.
This is the power of silence.
Grow Silently.

Staff Coordinators:

- Mrs. Sanketi Raut
- Mr. Akshay Agrawal

TABLE OF CONTENTS

- **TECHNICAL
ARTICLE**
- **NON TECHNICAL
ARTICLES**
- **DEPARTMENTAL
EVENTS**

3 Tech Gurus who Helped Shape the IT Landscape in India



Indians have made great contributions to the world of technology. Their successful contributions in diverse fields have helped them to establish themselves as tech geniuses. Today, at the celebration of Teacher's Day, let's see the list of noteworthy Indian tech gurus who helped shape the IT landscape in India.

1. Faqir Chand Kohli, Father of Indian IT industry:

Mr. Kohli was the founder-CEO of Tata Consultancy Services. He joined Tata Electric Co. in 1951 where he helped set up the load dispatching system to manage system operations. He became director of Tata Electric in 1970. As the first CEO of TCS, he pioneered India's IT revolution and helped the country build the \$190-billion IT industry.

2. N.R. Narayana Murthy, Legendary Co-Founder of Infosys:

“Bad news must take the elevator and good news can take the stairs.”
N.R. Narayana Murthy is the retired chairman of Indian tech giant Infosys, in which he continues to hold a minority stake. Murthy stepped down as chairman in 2011 after 30 years with the company but returned in 2013 to hand over management to a professional CEO in 2014. In 2017, Murthy was in the news for raising concerns over alleged corporate governance lapses at Infosys, which the company denied. The controversy led to the CEO's resignation and a board shakeup, which saw the return of retired cofounder Nandan Nilekani as nonexecutive chairman.

3. Anand Mahindra, the Humble King:

Anand Mahindra is the third generation scion of the Mahindra clan and chairs the \$19.4 billion (revenue) Mahindra & Mahindra conglomerate. The group's operations span 22 industries from auto to information technology to real estate. Anand Mahindra also owns a small but valuable stake in Kotak Mahindra Bank. He relinquished his role as executive chairman and became non-executive chairman of Mahindra & Mahindra in April 2020.

Source: <https://content.techgig.com/3-tech-gurus-who-helped-shape-the-it-landscape-in-india/articleshow/85900749.cms>

- MR. AKSHAY AGRAWAL
(Assistant Professor)

Here's why September 15 is Observed as National Engineer's Day in India

Engineer's Day is celebrated on September 15 every year to mark the birth anniversary of Mokshagundam Visvesvaraya. Here's everything you must know about the eminent engineer.



India celebrates Engineer's Day to commemorate the birth anniversary of the greatest Indian Engineer, Mokshagundam Visvesvaraya, on September 15 every year. Engineer's Day is celebrated to pay rich tributes to Bharat Ratna Visvesvaraya who was regarded as the 'Father of Modern Mysore'.

A prolific civic engineer, educationist, economist, scholar of the 20th century, Visvesvaraya made significant contributions in the field of engineering. However, UNESCO celebrates World Engineer's Day on March 4 annually. Engineer's Day is observed to acknowledge the efforts of various engineers who have made contributions in this field to make our present

lives comfortable. Visvesvaraya started his career as an assistant engineer in the Public Works Department of the Government of Bombay and made significant contributions to many technical projects in Mysore, Hyderabad, Odisha and Maharashtra. He was appointed as the Diwan of Mysore in 1912 and as a chief engineer, he constructed the famous Krishna Raja Sagara Dam in the city. He brought major reforms in the field of banking, education, commerce, agriculture, irrigation and industrialisation and was also a well-known precursor of economic planning in India.

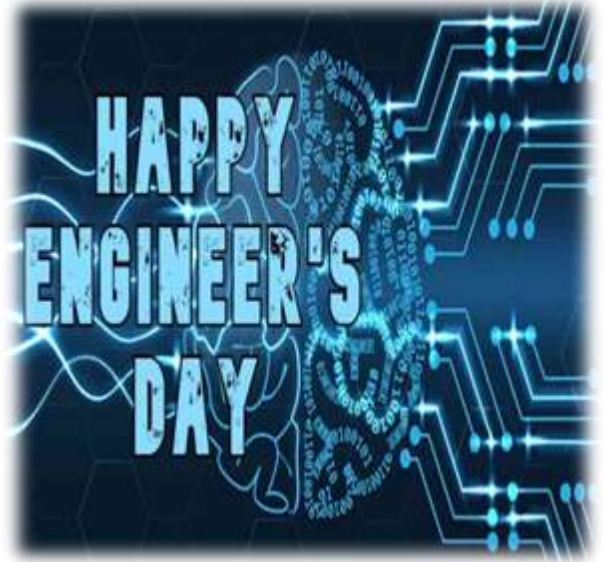
Who was Mokshagundam Visvesvaraya?

On Engineer's Day, the nation pays tribute to Visvesvaraya for his contributions to the society. Born in Karnataka in 1861, Visvesvaraya studied Bachelor of Arts(BA) from the University of Mysore and then studied civil engineering from the College of Science in Pune and went on to become one of the most eminent engineers in the country. Visvesvaraya was appointed a Companion of the Order of the Indian Empire (CIE) in 1911. In 1915, while he was Diwan of Mysore, Visvesvaraya was knighted as a Knight Commander of the Order of the Indian Empire (KCIE) by the British for his contributions to the public good.

Significant Contributions of Mokshagundam Visvesvaraya:-

His notable contributions include the block system of irrigation in the Deccan canals in 1999 and the flood protection system in Hyderabad.-The automatic water floodgates, initially installed at the Khadakwasla reservoir in Pune in 1903, were later patented and the government of India also graced him with 'Bharat Ratna' for his work.

He also established the Government Engineering College in Bengaluru in 1917, which was later renamed as University Visvesvaraya College of Engineering. An architect of Krishnaraja Sagar Dam, he also served as one of the chief engineers of the flood protection system in Hyderabad.-He was known for his excellent irrigation techniques and had flood disaster management skills.-He also authored various books, such as 'Reconstructing India' and 'Planned Economy of India'.



Some Facts of Mokshagundam Visvesvaraya:-

- ❖ Some people say Sir MV would walk for over 60km to attend United Mission School, in Bengaluru and would also sit under the street lamps to study at night.
- ❖ Besides being a world-renowned civil engineer, M Visvesvaraya was the 19th Diwan of Mysore, who served between 1912 and 1918.
- ❖ He was appointed as the Chief Engineer of Mysore State in 1909.
- ❖ Visvesvaraya won people's attention when he designed a flood protection system for the city of Hyderabad.
- ❖ He was instrumental in developing a system to protect Visakhapatnam port from sea erosion.
- ❖ M Visvesvaraya received the Bharat Ratna, India's highest honour, in 1955.
- ❖ He was called the "Father of Modern Mysore State".
- ❖ He was awarded several honorary doctoral degrees including from eight universities in India.

Source: <https://www.indiatoday.in/information/story/engineers-day-2021-heres-why-september-15-is-celebrated-as-engineers-day-in-india-1852687-2021-09-14>

**- MR. ALLAN LOPES
(Assistant Professor)**

Albert Einstein's Messy Desk

A famous photo taken in Princeton, New Jersey in 1955 depicts Albert Einstein's office the day he passed away. One would imagine a thinker of such superior intellect would have the finest productivity tricks and systems to keep his brilliant brain as clutter-free as possible. Did he have a standing desk? Were his books alphabetized for easy reference? Did he use a fancy goal-setting journal?

As it turns out, the answer to all of those questions is no. Einstein's desk was about as messy as it gets, the kind of setup you would expect from an editorial cartoon depicting office workers in impossible paper-pushing jobs.



Einstein isn't the only big thinker to flourish in disorder. Mark Twain, Steve Jobs and Mark Zuckerberg are just a few other documented examples of creatives who kept their desks in a state of organized chaos.

So does being messy actually lead to better creativity? Or does it depend on your personality? Here's what science has to say.

Organization and Creativity:

Research published in "Psychological Science" has good news for messy-desk dwellers. Scientist Kathleen Vohs and a team at the University of Minnesota found that both clean and messy workspaces have their own unique perks.

In this series of experiments, participants were seated at a desk that was either clean or messy, then asked to answer survey questions and make various decisions. Participants seated at a messy desk generated more creative ideas during a brainstorming exercise. They also chose new or novel products over established ones when presented with options.

In contrast, those seated at clean desks behaved more conventionally, doing that was expected of them. When presented with either an apple or piece of chocolate for a snack, for example, participants seated at clean desks chose the healthy snack more frequently.

It's a chicken-or-the-egg scenario that invites us to consider the type of thinking we want to cultivate. Do you work best after clearing space first and giving yourself some mental white space? Or does chaos leave you feeling freed up, resulting in your best and most valuable ideas?

How to channel your creative juices

Creativity is one of the most important and lucrative skills you can cultivate as an entrepreneur.

Here are a few tips to tap into your inner Einstein on a regular basis.

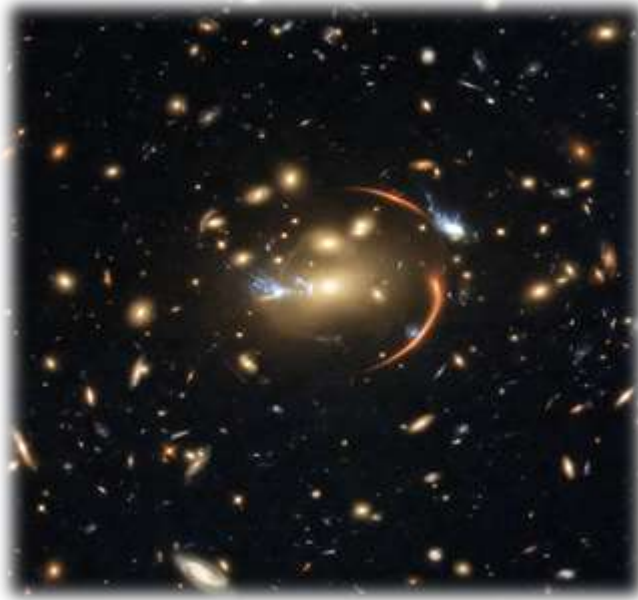
- **Focus on passion:** Figure out what makes you want to jump out of bed in the morning — then go after it with everything you've got. When you're inspired, the grind feels weightless and exciting.
- **Stay informed:** You don't know what you don't know, and often learning about a new technology or shift in markets can get your creative juices flowing. Make it a habit to read and learn every day.
- **Consider non-verbal brainstorming:** To-do lists and fancy journals are great, but why limit yourself to words? Sketches, models, and doodles can help you flesh out ideas without being burdened by the confines of language.

Your work environment doesn't have to be perfect; it simply has to work for *you* and free your mind. Let yourself get messy, cultivate creativity, and your next wild idea might be the one that helps you go the distance.

Source: <https://www.entrepreneur.com/article/369141>

- MS. MALIHA MOMIN
(TE IT)

Unprecedented measurements confirm galaxies idle when run out of cold gas



New research, published in *Nature* and led by the University of Massachusetts Amherst, has just answered one of the fundamental questions about our universe: Why did some of the oldest, most massive galaxies go quiescent early in their formation? The answer, we now know, is because they ran out of cold gas.

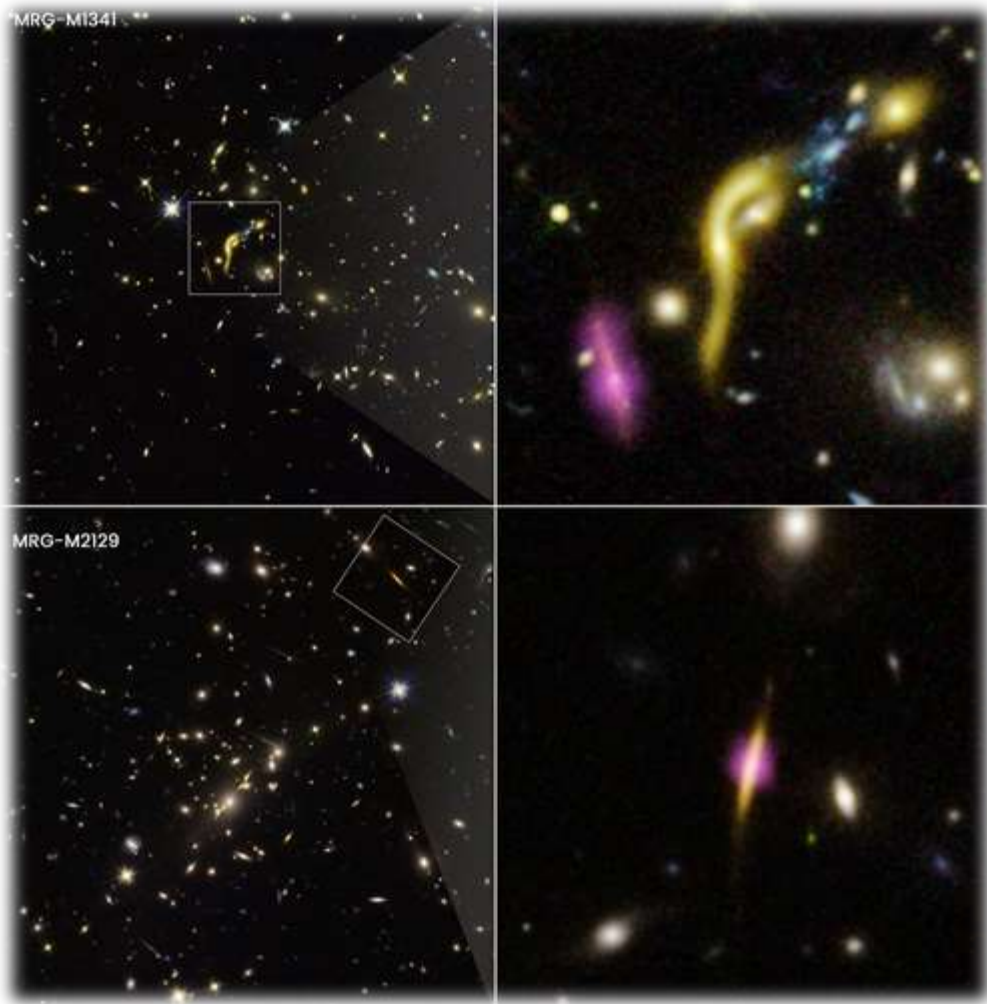
“The most massive galaxies in our universe formed incredibly early, just after the Big Bang happened, 14 billion years ago,”

says Kate Whitaker, professor of astronomy at UMass Amherst. “But for some reason, they have shut down. They’re no longer forming new stars.” Star formation is one of the keyways that galaxies grow, and they’re said to have gone quiescent when they cease forming stars. Astronomers have known that these early, massive galaxies had gone quiescent, but until now, no one knew why.

To find the answer, Whitaker’s team, which includes Alexandra Pope, associate professor of astronomy, and Christina C. Williams, who received her Ph.D. in astronomy at UMass, devised an innovative pairing of telescopes. They used the Hubble Space Telescope, which sees ultraviolet to near-infrared light, including the light we can see with our own eyes, to detect these distant galaxies, which are so far away that we’re only just now seeing the light they emitted 10 billion to 12 billion years ago, when the universe was in its infancy.

In effect, Whitaker’s team is looking into the deep past. These galaxies should appear young and vigorous, with evidence of constant star formation. But they don’t, and Whitaker’s team combined Hubble’s images with extraordinarily sensitive readings from ALMA, the Atacama Large Millimetre/submillimetre Array, which detects radiation invisible to the naked eye. ALMA let Whitaker’s team look for tiny amounts of cold gas — the main energy source fuelling new star formation.

“There was copious cold gas in the early universe, so these galaxies, from 12 billion years ago,



should have plenty left in the fuel tank.” Instead, Whitaker and her team found only traces of cold gas located at each galaxy’s centre. This means that, within the first few billion years of the universe’s existence, these galaxies either burned through their energy supplies, or ejected them and, furthermore, that something may be physically blocking each galaxy’s replenishment of cold gas.

Taken together, the research helps us to rewrite the early history of the universe so that we can get a clearer idea of how galaxies evolve. The team’s next step is to figure out how compact the remaining gas is in these quiescent galaxies and why it exists only in the galaxies’ centre.

Source: <https://scitechdaily.com/running-on-empty-astronomers-solve-12-billion-year-old-mystery-of-stalled-galaxies/amp/>

**- MS. LAVANYA DEIVAKARUNATHAN
(TE IT)**

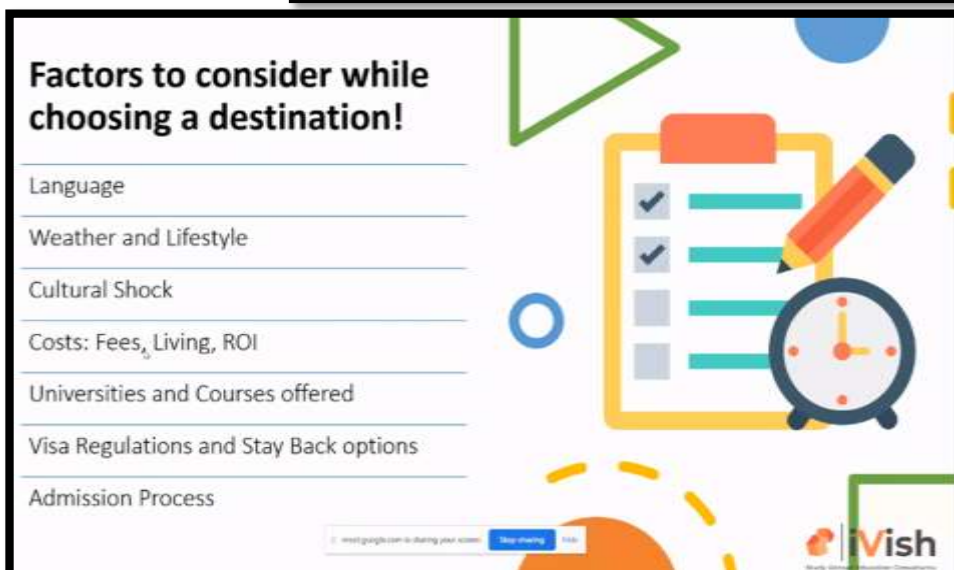
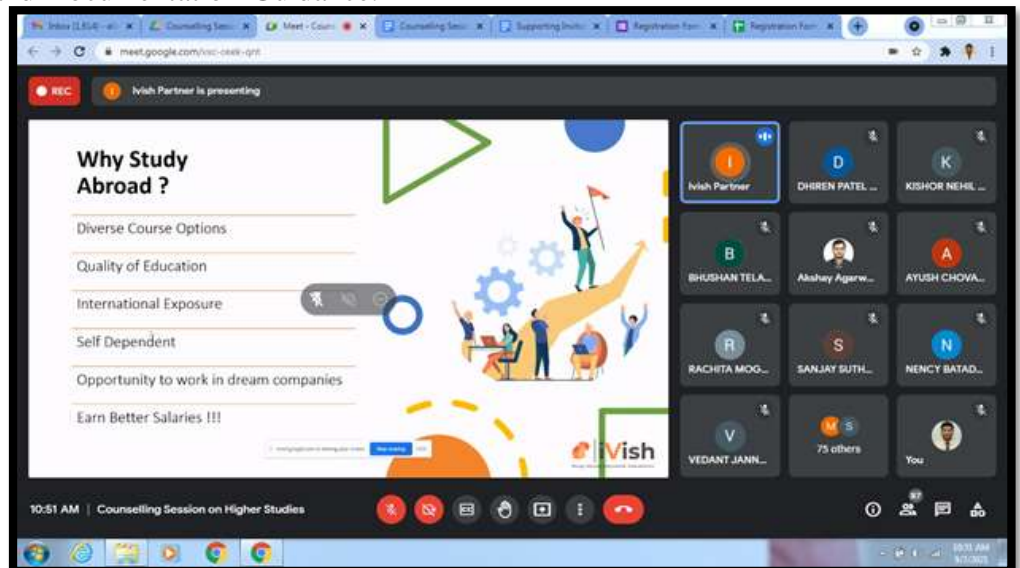
Departmental Events

1 Day Online Counselling Session on Higher Studies

A 1-Day Online Counseling Session on Higher Studies was organized by Department of IT on 7th September 2021. It was conducted through Google meet., there were total 107 registered participants. The speakers throughout the webinar was Mr. Rohan Dmello, Mrs. Jwelline Dmello and Mr. Siddharth Pradeep

The learning outcome through this webinar:-

- ❖ Identify the right path
- ❖ Select Country / Course Selection
- ❖ Build their Profile
- ❖ Write SOP / LOR
- ❖ Visa procedure and Documentation Guidance.



Expert Lecture on Bayesian Belief Network and Conditional Probability in AI

An Expert Lecture on Bayesian Belief network and Conditional Probability in AI was organized by Department of IT on 18th September 2021. It was conducted from 09:30 am to 11:00 am through Google meet. There were total 43 registered participants. The speaker throughout the workshop was Prof. Ichhanshu Jaiswal (Assistant Professor in Department of Information Technology at Vidyalankar Institute of Technology).

The learning outcome through this workshop:-

- ❖ Uncertainty in AI.
- ❖ Conditional Probability in AI.
- ❖ Bayes Theorem.
- ❖ Bayesian Belief Network.

Reason for Uncertainty?

- **Laziness**:- To much effort are required to represent complete set of rule, this causes missing up certain rules which results in uncertainty.
(PREPARING FOR EXAM)- WE SKIP LESS IMPORTANT TOPICS , BUT IF THIS TOPICS COMES IN EXAM ????
- **Theoretical Ignorance**:- Medical Science has no complete theory for a domain, so proper planning fails. (Eg:-CORONA VACINE FAILURE)

9:47 AM | Bayesian Belief Network and Conditional Pro...

9:47 AM | Bayesian Belief Network and Conditional Pro...

	Toothache	no toothache
Cavity	0.108 0.012 0.072 0.008	
no Cavity	0.016 0.064 0.144 0.376	

Find:-

1. P(Cavity | V toothache)
2. P(Cavity)
3. P(no toothache)
4. P(Cavity | no toothache)
5. P(no toothache | Cavity)
6. P(Cavity | no toothache)
7. P(no toothache | Cavity)

$P(C|T) = \frac{P(C \cap T)}{P(T)}$

$P(T) = 0.108 + 0.012 + 0.072 + 0.008 + 0.016 + 0.064 = 0.28$

$P(C) = 0.2$

$P(T) = 0.108 + 0.012 + 0.016 + 0.064 = 0.2$

1- Week International Workshop on JAVA & ANDROID

A 1-Week International Workshop on Java & Android was organized by Department of IT. It was conducted from 20th September 2021 to 25th September 2021 through Google meet & Zoom Meet. There were total 183 registered participants. The speaker throughout the workshop was Mr. Prasanth & Mr. Madhu Kumar (Team- Brainovision).

The learning outcome through this workshop was to:-

- ❖ Enrich participants knowledge in the area of Object Oriented Programming using JAVA Language.
- ❖ Understand the Android OS architecture. Install and use appropriate tools for Android development, including IDE.



What is Android?

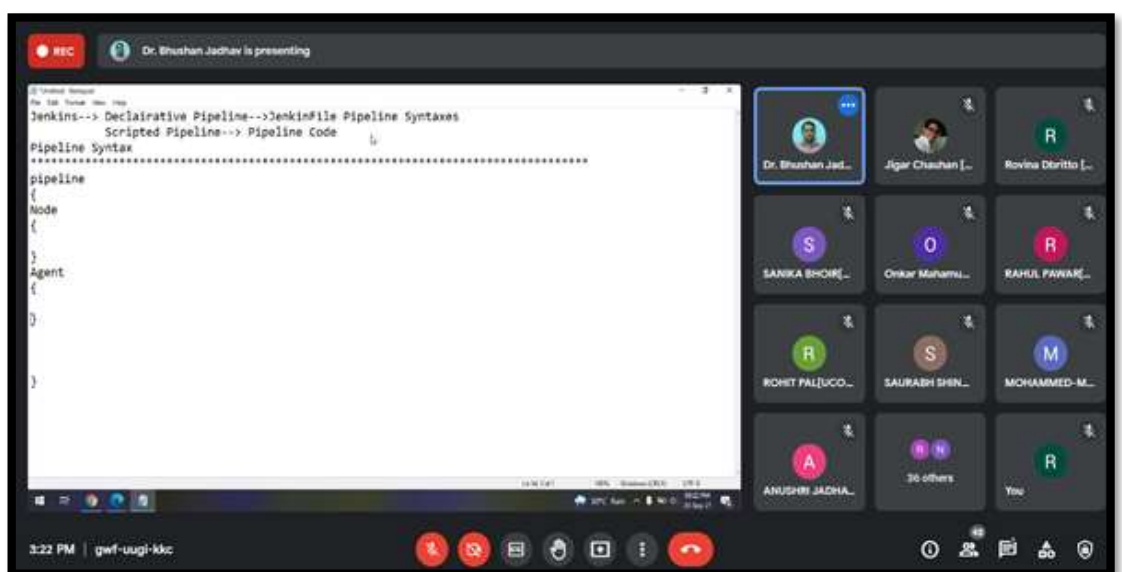
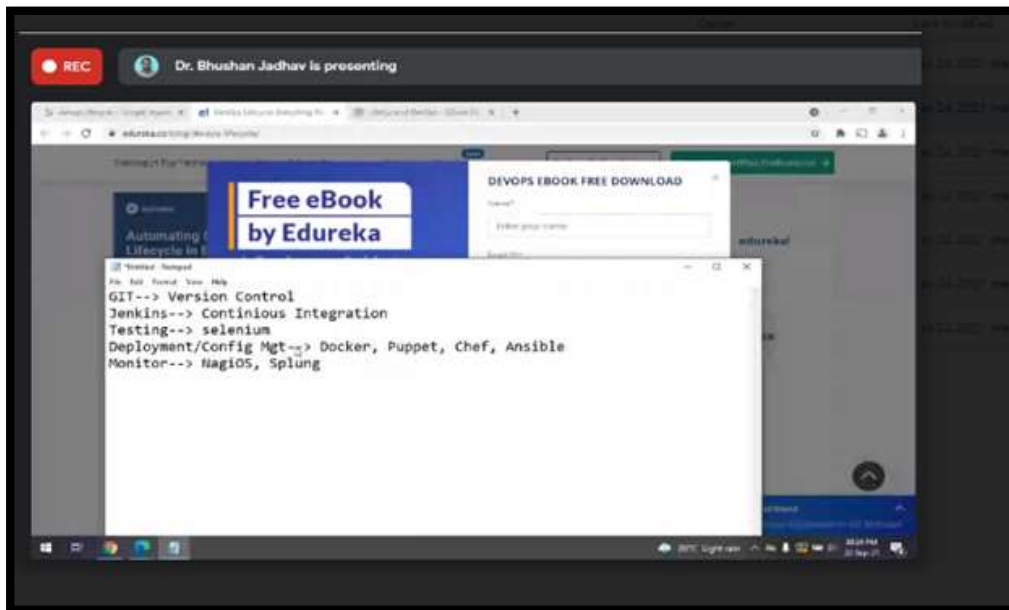
- Mobile operating system based on [Linux kernel](#)
- User Interface for touch screens
- Used on [over 80%](#) of all smartphones
- Powers devices such as watches, TVs, and cars
- Over 2 Million Android apps in Google Play store
- Highly customizable for devices / by vendors
- Open source

2-Day Online Workshop on DevOps

A 2-Day Online Workshop on DevOps was organized by Department of IT. It was conducted from 22nd September 2021 to 23rd September 2021 through Google meet. There were total 48 registered participants. The speaker throughout the workshop was Dr. Bhushan Jadhav (an Assistant professor in AI and DS department at TSEC Bandra).

The learning outcome through this workshop was to:-

- ❖ Perform practicals in Jenkins pipeline and Docker.
- ❖ Fetch code from github and run it in Jenkins.

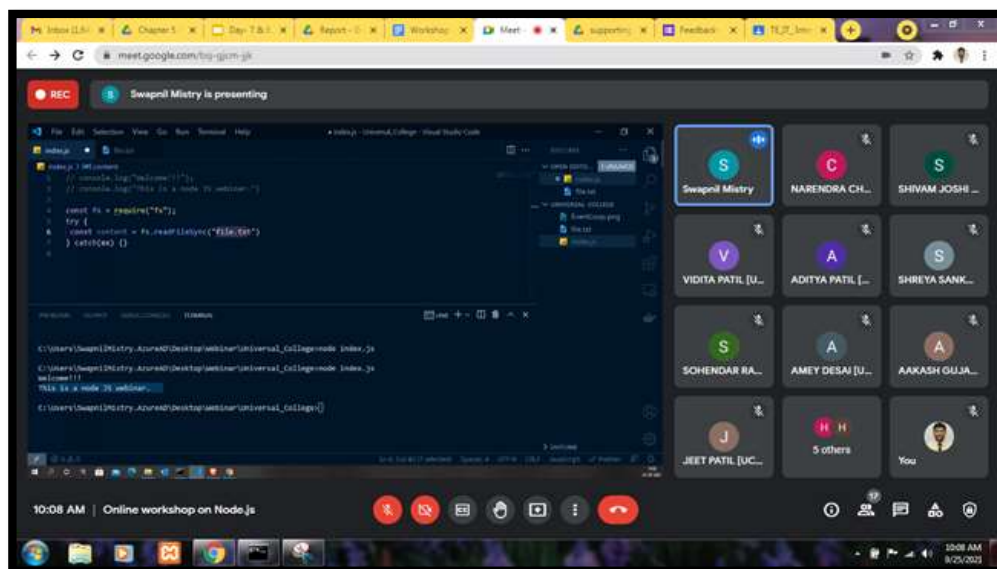
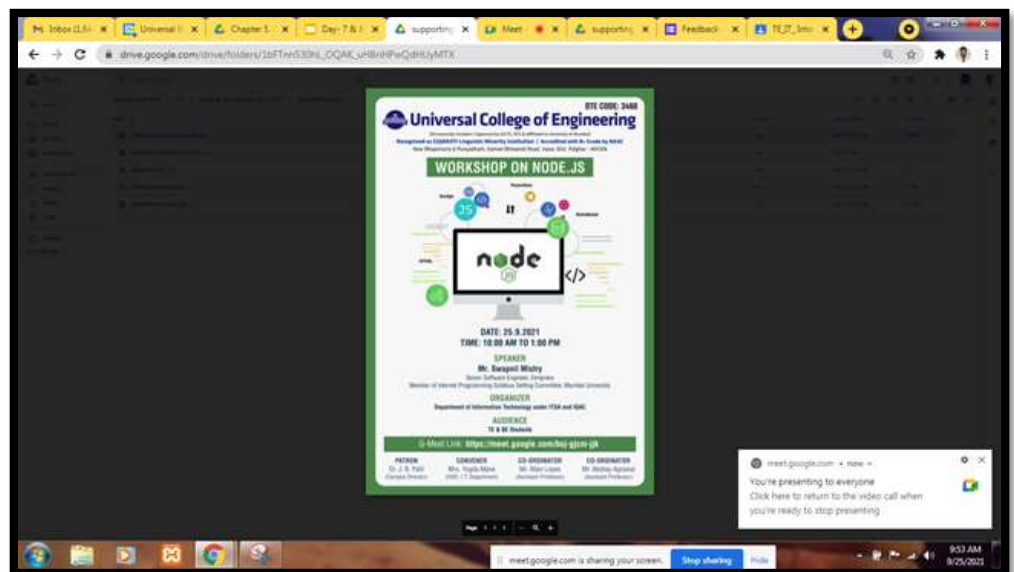


1 Day Workshop on node.js

A 1-Day Workshop on node.js was organized by Department of IT on 25th September 2021. It was conducted from 10:00 am to 1:00 pm through Google meet. There were total 23 registered participants. The speaker throughout the workshop was Mr. Swapnil Mistry, Senior Software Engineer and Educationist, Cimpres.

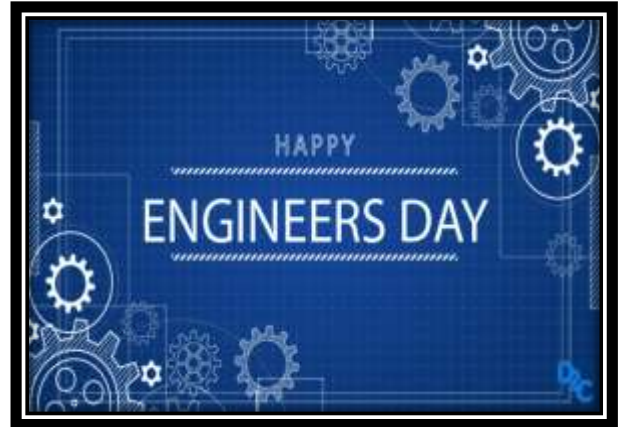
The learning outcome through this workshop:-

- ❖ Fundamentals of node.js
- ❖ Environmental setup
- ❖ Asynchronous Programming
- ❖ Event Loop
- ❖ Setting up first node.js Project





HAPPY TEACHER'S DAY



HAPPY
ENGINEERS DAY



Mr. Meet Gandhi of 2019 pass out batch from IT department landed in a Bangalore based company as Software Development Engineer with a package of 16.50 Lakhs per annum. He was placed in TCS in 2019 with 3.25lpa and within 2 years he worked hard for Software development.

Congratulations.....

Scan for previous edition



You can send your articles to the following email id:

sanketi.raut@universal.edu.in

akshay.agarwal@universal.edu.in

Follow us on:



ucoe_mumbai



itsa_ucoe



ucoe_mumbai



itsa_ucoe

**Kaman - Bhiwandi Road, Survey No. 146 (Part), Village: Kaman,
Taluka: Vasai, District: Palghar – 401208.**