



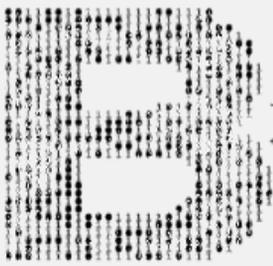
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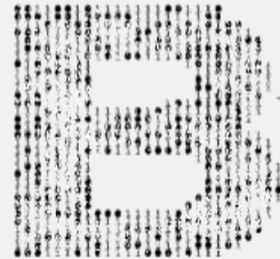
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2021



ITS



YTES

An Initiative By



Department of Information Technology

#SATYAVACHAN

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Staff Coordinators:

- Mrs. Sanketi Raut
- Mr. Akshay Agrawal

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Why Flutter is the Next Big Thing in App Development?

What is Flutter?

Flutter is a cross-platform toolkit for developing GUI applications developed by Google. A Flutter app natively compiles to:

- iOS and Android
- Windows, Linux, and macOS
- The web

Many developers have already discovered Flutter and consider it to be a fresh breeze compared to traditional app development frameworks.

Dart, the programming language used by Flutter, is designed for GUI development. It's fast and feels natural to those familiar with JavaScript, C#, Java, Kotlin, and similar languages. It's an open-source, versatile language that compiles to native code or JavaScript but can also be run in a VM.

In fact, a notable feature of Flutter is the way it leverages the Dart virtual machine during development. Flutter allows you to develop your application interactively and quickly inspect its current state. Any changes to your code are instantly injected in the running app, so you can directly see the effect.

But why is Google pushing so hard to develop this new toolkit? And why is Flutter going to be next big thing in app development?

Cross-Platform Development Done Right:

There are other cross-platform toolkits out there like QT, React Native, and Xamarin. Google is doing many things right here:

- The overall design of the Flutter project is excellent and future-proof.
- The developer documentation is solid and keeps improving.
- The ecosystem of Dart and Flutter packages is quite impressive for such a young project.
- The way everything is composed of widgets feels very natural to many and allows for lots of creativity and adaptability.
- The speed with which Flutter as a project is progressing is astonishing.
- All the major platforms are supported already (some are still in beta).
- There are more than 90,000 Flutter apps in Google's Play Store, up from 50,000 just a few months before. There are no stats for iOS, but it should be similar.

Look and Feel:

People don't care about the exact and native look and feel of a button. As long as it looks nice and the overall design conforms to what they know (e.g. Material Design), it's fine!

In fact, not relying on the native layout elements of a platform — minimizing the reliability on the underlying platforms — is one of Flutter's biggest strengths. Flutter developers don't have to worry about what the upstream operating systems will do in their next update. As long as Flutter has its canvas to draw on, it will keep working just fine.

Fuchsia:

It's a new open source operating system that Google has been creating since at least 2016. It is designed from the ground up for security and updatability.

Note that this is not a 20% project from a few Googlers. It's a real OS that's being developed to run on many platforms: phones, watches, car entertainment systems, PCs, and laptops! Big names from tech are quietly working on it, and it's being developed for —production devices and products used for business-critical applications.!

The Fuchsia developers are integrating into their new OS, it's Flutter! Once Fuchsia is ready for release, it will have a head start if hundreds of thousands of apps can run on it with little to no modifications.

Conclusion:

Flutter will replace many Android and iOS applications in the coming months and years. It's so easy to build cross-platform apps with Flutter that these apps will start to pop up in the Windows, macOS and Ubuntu Linux app stores as well.

With Flutter's support for the web, more and more apps will start to become available right from the browser. That's ideal for one-time usage or for teasing people to install the app on their devices.

Flutter is an unstoppable train that's coming towards all of us. You can either hop on early or get crushed by it sometime in the future.

Source: <https://betterprogramming.pub/why-flutter-is-in-fact-the-next-big-thing-in-app-development-8f514dd3a252>

- MR. JIGAR CHAUHAN
(Assistant Professor)

World Nature Conservation Day 2021

World Nature Conservation Day 2021: It is celebrated on 28 July to raise awareness about protecting the natural resources and to make people understand the importance of the conservation of nature.



World Nature Conservation Day recognizes that a healthy environment is a foundation for a stable and productive society. This day also ensures the well-being of present and future generations. How nature can be conserved or how we can protect our nature? Let's discuss!

—Earth provides enough to satisfy every man's needs, but not every man's greed.‖ — Mahatma Gandhi.

There are several threats to nature like deforestation, illegal wildlife trade, pollution, using plastics, chemicals, etc. Earth has provided basic necessities to live like water, air, soil, minerals, trees, animals, food, etc. So, we should keep nature clean and healthy. Industrial development and several other factors are also responsible for the depletion of nature. Whatever we do it affects the globe because the world is one and somehow linked together.

History:

The history and origin of the World Nature Conservation Day is unknown but the main aim of celebrating it on 28 July is to come together and support nature, don't exploit it. Conservation of nature is the wise management and utilization of natural resources.

Due to natural imbalance, we are facing several problems like global warming, various diseases, natural disasters, increased temperature, etc. So, it is important to raise awareness among people all over the world to understand the importance of preserving it, and also understand the consequences of damaging it.

Methods to Conserve the Environment:

Everyone can participate and conserve nature which is a beautiful gift to us. Several ways are there by which we can conserve environment like:

- Try to buy reusable and biodegradable products as much as possible. Recycle everything if it is possible.
- It is necessary to reduce the consumption of water.
- Reduce pollution.
- When your work is done with an electric appliance then turn it off. In this way, energy and money both will be saved.
- Plant trees and make the planet green.
- Vegetables are grown with chemicals and pesticides. So, it is better to plant vegetables and eat organic food.
- To avoid littering, it is better to do composting.
- Batteries are dangerous for the environment so, it is better to use rechargeable batteries.
- Aware people about the use of conservation of nature, environment, and energy.

There are also three essential words about the conservation of environment that is "Reduce, Recycle and Reuse".

Conservation of nature is very necessary, even scientists have also warned us about the mass extinctions in the near future. The natural world is facing an increasing threat from unsustainable practices and the challenge is how to preserve and conserve nature to achieve sustainable development.

Let us come together and make an effort to contribute to the local, national, or global levels in conserving nature. It will not only benefit our present generation but also for future generations.

Source: <https://www.jagranjosh.com/general-knowledge/world-nature-conservation-day-1564220763-1>

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

Seven Fascinating Facts about Siberia

Located to the east of Russia's Ural Mountains, Siberia is known for its harsh winters and vast landscape. In fact, if Siberia were its own country, it would be the largest country in the world by area. Discover Siberia with the following list of facts about this fascinating region.

1. Most of Russia is in Siberia:

At around 13 million square kilometers (5.1 million square miles), Siberia takes up three-quarters of all Russian territory and almost ten percent of Earth's land surface. However, when it comes to population density, Siberia is one of the least populated areas on Earth, with between 7 and 8 inhabitants per square mile.

2. Summer Temperatures can Reach 95°F (35°C):

Siberia is associated with harshly cold temperatures, but the weather isn't cold year-round. During Siberian winters, the temperature can reach lows of -94°F (-70°C). However, summers are warm across Siberia, with some parts of Western Siberia reaching highs of 95°F (35°C). This weather is due to the continental climate of the area, characterized by cold winters and warm summers.

3. Siberia has Giant Snowflakes:

Large snowflakes are an ordinary occurrence in Siberia. In the Siberian city of Bratsk, snowflakes measuring 12 inches (30.5 centimeters) in diameter were recorded in 1971. Other parts of Siberia experience a type of snowfall called "diamond dust": snow made of very thin, needle-shaped icicles. Some Siberians can estimate the temperature based on the squeaking sound made when snow is stepped on. The sound, which is caused by snow particles squashing together and breaking, is more audible in lower temperatures.

4. Humans have Lived in Siberia for 1,25,000 Years:

Early humans lived in Siberia as far back as 125,000 years ago. In 2010, archaeologists discovered a human bone belonging to a hybrid of a Denisovan and Neanderthal in the Altai Mountains of Siberia. Siberian lands have long been home to indigenous groups, including the Nivkhi, the Evenki, and the Buryat.

5. Siberia is Home to the Deepest Lake on Earth:

Lake Baikal is the largest freshwater lake by volume in the world. It contains over 20% of the world's fresh surface water. It is also the deepest lake in the world, with a depth of 5,387 feet (1,642 meters). Mountains completely surround the lake, and more than 330 rivers feed water into it. Due to its size, it is often referred to as the Baikal Sea. The entire lake freezes over each winter, with ice as thick as 6.5 feet (2 meters) in some places. In the summer, storms form waves that can reach 14.8 feet (4.5 meters) high.



6. Over 70% of Russian Oil and Gas Comes from Siberia:

The majority of Russian crude oil and natural gas comes from Western Siberia, where natural reserves spread over more than 2 million square kilometers. Russia is one of the world's largest natural gas exporters because of its Siberian territories.

7. Siberia is Home to the World's Longest Railway Line:

The Trans-Siberian Railway Network, which connects Moscow and Vladivostok, is 5,771 miles (9,288.2 kilometers) in length. The journey lasts 6 nights and 7 days, with 10-20 minute stops at each station. The railway is famous for the breathtaking views along the route, which crosses eight time zones and includes Lake Baikal, Birch and Pine Forests, and the Ural Mountains.

Source: <https://www.thoughtco.com/siberia-facts-4579880>

- MR. JIGAR CHAUHAN
(Assistant Professor)

5 Best Ways Techies Can Make Their Weekend More Productive

Doing nothing on a weekend can be fun, but it can also turn out to be quite boring quickly. For some techies this isn't how they would like their weekends to be. Weekends are the best time to catch up with everything that you always wanted to do, but never had time for. There are plenty of things that one can do in spare time.

Don't we all have our own bucket lists? As a techie, there's always room for improvement, to learn something new, read some more, share some more and find an extension of ourselves that sometimes gets lost during the weekdays. Here are five ways you can make the weekend more productive if you are a techie.

1. Start Blogging:

Blogging is a great way to share what you know. Whatever experience you have gained can help someone get ahead in the field. It can even inspire someone to take over a new journey learning from your experiences. Writing can be challenging in the beginning, but once you get the hang of it things will seem easy. Find your niche and start sharing your ideas, thoughts and experiences.



2. Read Books:

To share knowledge you will also need to attain knowledge in a particular domain. It is a great way to spend the weekend. There's so much to learn and so little time during weekdays, so you can keep some of your time during the weekends to focus on learning about new things that can help improve your existing skills or build new skills. Books are also a great way to learn about new ideas and thoughts that you can put into practice.

3. Join Courses:

Upskilling is the need of the hour. Especially when technology is evolving at a great pace and new roles are being created. Skilled professionals are in high demand, especially in the IT sector. As a techie you should spare some time during weekends to focus on learning new skills by enrolling in a course.



4. Listen to Podcasts:

The popularity of podcasts have grown in recent times. The most important advantage of listening to a podcast is that you would not require to listen to it at one go. Learn from industry experts in your free time and you can choose from a range of podcasts on various topics.



5. Be a Part of a Tech Community:

Developer communities are the best places to stay updated about the latest in the tech industry. It is also quite helpful in case you are stuck in a complex project and do not know how to proceed further. When you join a tech community you get to contribute as a member which can help others and also help you polish your skills. It is a great way to spend a weekend in a productive way.



Source:<https://content.techgig.com/5-best-ways-techies-can-make-their-weekend-more-productive/articleshow/83439724.cms>

- MR. AKSHAY AGRAWAL
(Assistant Professor)

World Environment Day 2021

World Environment Day is celebrated on June 5, annually to encourage awareness and environmental protection. According to the United Nations, “the celebration of this day provides us with an opportunity to broaden the basis for an enlightened opinion and responsible conduct by individuals, enterprises, and communities in preserving and enhancing the environment.” The day is celebrated by engaging governments, businesses, celebrities and citizens to focus their efforts on a pressing environmental issue.

World Environment Day 2021:

The pandemic that the world has been dealing with for almost 1.5 years now has shown how disastrous the consequences of ecosystem loss can be. By shrinking the area of natural habitat for animals, we have created ideal conditions for pathogens – including coronaviruses – to spread. The fact remains that only with healthy ecosystems can we enhance people’s livelihoods, counteract climate change and stop the collapse of biodiversity.

Theme - Ecosystem Restoration:

The theme for World Environment Day 2021 is ‘Ecosystem Restoration’ and Pakistan will be the global host for the day. This World Environment Day will kick off the UN Decade on Ecosystem Restoration (2021-2030), a global mission to revive billions of hectares, from forests to farmlands, from the top of mountains to the depth of the sea.



For too long, humans have been exploiting and destroying the planet’s ecosystems. Every three seconds, the world loses enough forest to cover a football pitch and over the last century, we have destroyed half of the wetlands. As much as 50 per cent of the world’s coral reefs have already been lost and up to 90 percent of coral reefs could be lost by 2050, even if global warming is limited to an increase of 1.5 degrees Celsius. Global greenhouse gas emissions have grown for three consecutive years. We must now fundamentally rethink our relationship with the living world, with natural ecosystems and their biodiversity and work towards its restoration.

We must now fundamentally rethink our relationship with the living world, with natural ecosystems and their biodiversity and work towards its restoration.

What is an Ecosystem?

An ecosystem is a community of plants and animals interacting with each other in a given area, and also with their non-living environments like weather, earth, sun, soil, climate and atmosphere. The ecosystem relates to the way that all these different organisms live in close proximity to each other and how they interact with each other.

What is Ecosystem Restoration?

Ecosystem restoration means preventing, halting, and reversing this damage – to go from exploiting nature to healing it. Ecosystem restoration means assisting in the recovery of ecosystems that have been degraded or destroyed, as well as conserving the ecosystems that are still intact. Restoration can happen in many ways – for example through actively planting or by removing pressures so that nature can recover on its own.



How can the Ecosystem be Restored?

All kinds of ecosystems can be restored, including forests, farmlands, cities, wetlands, and oceans. Restoration initiatives can be launched by almost anyone, from governments and development agencies to businesses, communities, and individuals. That is because the causes of degradation are many and varied, and can have an impact at different scales.

For instance, degradation may result from harmful policies such as subsidies for intensive farming or weak tenure laws that encourage deforestation. Lakes and coastlines can become polluted because of poor waste management or an industrial accident. Commercial pressures can leave towns and cities with too much asphalt and too few green spaces.

Source: https://www.business-standard.com/article/current-affairs/world-environment-day-2021-theme-images-importance-of-ecosystem-restoration-june-5-environment-crisis-121060500082_1.html

- **MRS. SANKETI RAUT**
(Assistant Professor)

How To File Cybercrime Complaint Online In India

Cases of cybercrimes are rising every day, the magnitude of digital crimes can be accessed by the fact that every 5th person in the country is falling into scams related to cybercrime.

From a software engineer to an uneducated farmer, every passing day, hundreds of people are there who get swindled. Fraudsters are using new modus operandi and techniques to fool their targets. It takes only a fraction of seconds for these cybercriminals to steal your hard-earned money.

But the problem aggravates when you have made repeated visit to lodge a complaint to the nearest police stations. At times local police refrain from lodging the complaint stating it as a case of cyber-crime. So where do you go and how to register your cyber crime complaint with the police?

This is how you can lodge an online complaint about cybercrimes. The very first step is to open the website – <https://cybercrime.gov.in/>

Step 1: As you open the website, you will see the following prompt on your screen. You can notice, next to the home button tab, there are two other options – Report Women/Child-Related Crime and Report Other Cyber Crime.

Step 2: If a woman or a child is a victim of cybercrime, then you can click this button. Upon clicking, you will find an option of Report anonymously and report & track. If you want to hide your identity then the anonymous option can be chosen else report and track button should be pressed.

Step 3: In the next window user have to press – File a complaint and I Accept button to move forward. Read the conditions and accept them. It is here the portal also tells — Please contact local police in case of an emergency or for reporting crimes other than cybercrimes. The national police helpline number is 112. The national women helpline number is 181.

Step 4: Here you create a user id and register your mobile number on which you will receive OTP and fill in your name and state. After successfully logging in to the page, you can easily choose your respective area and register a complaint. Fill in the relevant details about the offence.

Follow similar steps to file a complaint under the —report other cybercrimes! option. Select the appropriate category and sub-category.

Tracking the Complaint:

Once you have registered the complaint on the website, you will receive a unique number for your reference. Further communication regarding the investigations will be done via a unique number generated. The number can also be used to track the status of the complaint.

Registering Complaint Via an Email:

You can also send a mail to complaint-mwcd@gov.in , a hotline created by the Ministry of Women and Child development to report online bullying and abuse.

There is also a facility for getting the investigation done with getting your identity disclosed. There are Cyber Nodal Officers designated in almost every corner of the country.

A complaint can be registered by emailing to security officers on their respective email id. Full List here: https://cybercrime.gov.in/Webform/Crime_NodalGrivanceList.aspx

A PDF file with the list of email id and contact number of the nodal officers is available in the Contact Us section on cybercrime.gov.in website.

Helpline Number:

Ministry of Home Affairs has introduced a dedicated toll-free helpline number — 155260. The number is reachable on a working day from 9:00 a.m. to 6:00 p.m.

UP COPApp for Registering a Complaint in Uttar Pradesh:

People residing in UP can use the UP COP mobile application to register their complaint online. For this, you have to download the application on your mobile and login into it using your mobile number. After logging in, click on FIR and then on Register e-FIR. Upon clicking, you have to enter the name and other details asked in the application to register a complaint.

Jansunwai Samadhan:

This online platform – <http://jansunwai.up.nic.in/> is an integrated system for grievance redressal in Uttar Pradesh. The complaint related to law enforcement, security or other administrative issues can be reported here.

Childline:

For a child in distress, one can dial 1098 a 24X7 helpline number which come for rescue for children in need of aid and assistance.

Source:

<https://www.the420.in/step-by-step-guide-how-to-file-cybercrime-complaint-online-in-india/>

- MRS. YOGITA MANE
(HOD)

5 Crazy Facts About Space

There is so much about space, our solar system, and the galaxy that we still don't know! Space is vast. With billions of galaxies and stars, and planets in our own solar system yet to be fully explored or understood, scientists' knowledge of space is always evolving. There are, however, some really cool things we know about space right now! We've compiled a list of what we think are ten stellar facts that we hope you'll think are out of this world!

1. The Hottest Planet in Our Solar System is 450° C:

Venus is the hottest planet in the solar system and has an average surface temperature of around 450° C. Did you know that Venus isn't the closest planet to the sun? That is Mercury. You would think that Mercury would then be the hottest, but Mercury has no atmosphere (which regulates temperature), resulting in big fluctuations.

2. The Sun's Mass Takes Up 99.86% of the Solar System:

The Sun accounts for 99.86% of the mass in our solar system with a mass of around 330,000 times that of Earth. Did you know that the Sun is made up of mostly hydrogen (three quarters worth) with the rest of its mass attributed to helium

3. One Million Earths can Fit Inside the Sun:

The Sun is large enough that approximately 1.3 million Earths could fit inside (if squashed in) or if the Earths retained their spherical shape then 960,000 would fit.

4. There are More Trees on Earth than Stars in the Milky Way:

There are about three trillion trees on Planet Earth, and between 100-400 billion stars, approximately, in the galaxy.

5. The Sunset on Mars Appears Blue:

Just as colors are made more dramatic in sunsets on Earth, sunsets on Mars, according to NASA, would appear bluish to human observers watching from the red planet. Fine dust makes the blue near the Sun's part of the sky much more visible, while normal daylight makes the Red Planet's familiar rusty dust color the most perceptible to the human eye.

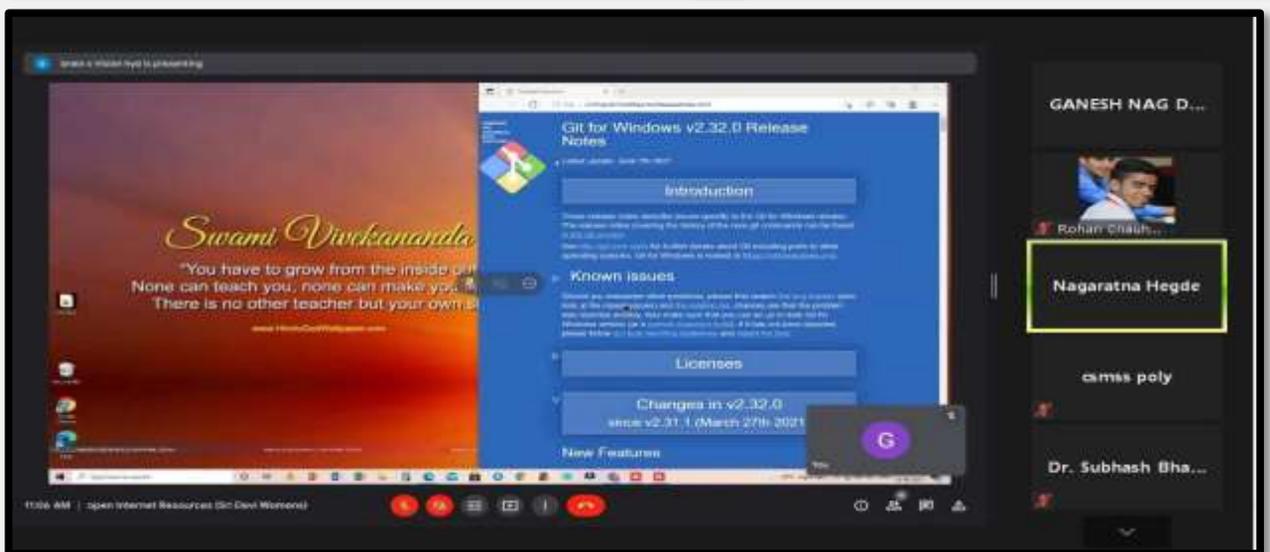
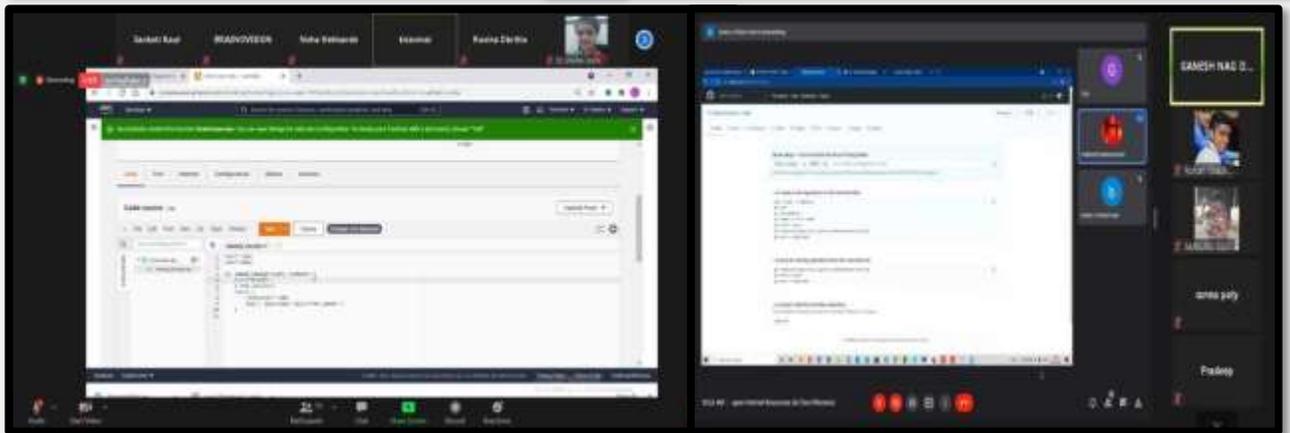
Source: <https://childwellbeing.asu.edu/SpaceFacts>

- MS. MALIHA MOMIN
(SE-IT)

DEPARTMENTAL EVENT

National Level one week Online FDP on Multi-technologies was organized by Department of IT under IQAC and ITSA in association with Brainovision Pvt. Ltd. And National Youth Council Of India from 28th June 2021 till 03rd July 2021.

Technologies like AWS, React JS, Informatica, Dart Programming, DevOps, Git Hub were covered during the FDP by Industry resource person.



STUDENT'S PLACEMENT

Sr. No.	Name of the Student	Company	Package (in LPA)
1.	Soniya Timapur	Goldern Source	4.5
2.	Sujal Upadhyay	Paramatrix Technologies	3.75
3.	Atulkumar Giri	Paramatrix Technologies	3.75
		Jampot Technologies	3.50
4.	Rishav Mandal	Support Hives LLP	1.8
5.	Meet Bhanushali	Arcon	4

Total 71.42% students placed in year 2020-2021

PAST STUDENT ACHIEVEMENT



Mr. Harshvardhan Yogesh Joshi

Our 2016-17 batch pass-out student from **IT department** made all of us proud by his achievements. He made it to the **summit** of **Mt. Everest** on *23rd May 2021*. During his journey he encountered *Covid-19, 3 Cyclones* and ultra dangerous *Khumbu*. He got both the shots of *Covid Vaccine* which helped him *battle the disease*. His *patience, positivity* and *determination* encouraged him to not give up despite of all the odds he was facing. He eventually got the chance to stand at the top of the world.

AaoCodeKare

AaoCodeKare is a non-profit programmers Community where newcomers and professionals come together to help each other and share knowledge for free of cost.

- We help newcomers to adapt to the tech world by providing free resources like Udemy courses and e-Books, help solving problems through discussions, organizing coding contests, help in hackathons, mentorship/advice from senior students, Tech memes, and news and much more.
- The most important and notable thing about AaoCodeKare is that it is made for students by students.
- In AaoCodeKare professionals share their knowledge and newcomers share their problems and requirements which helps in creating a healthy learning environment on equal grounds.
- Here we believe in One For All, which means everything in universe is for everyone to share, which includes skills and knowledge to apply those skills. Having fun while learning is important and when someone takes some effort to help you in your learning journey, it clears your path towards your goal, and we are happy to be someone to take some effort to help you in your learning journey.

We welcome you to join us and explore the tech world with your own eyes.

Youtube Link - <https://youtube.com/c/AaoCodeKare>

Whatsapp Link - <https://chat.whatsapp.com/DdpIIRn46vnGoTDAe8yXi1>



Community Members:



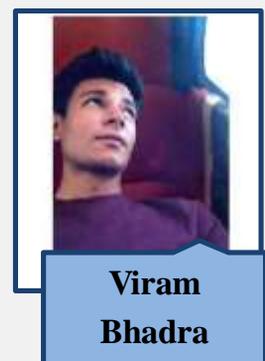
**Meet
Bhanushali**



**Sasin
Nisar**



**Gaurav
Datt**



**Viram
Bhadra**

UPCOMING EVENTS

AURORA 2021

It is a **Sports and Cultural Fest of UCoE** which is celebrated every year with great enthusiasm.

This year as well we are conducting Aurora, but **Digitally!!!**

Date: 5th - 10th July 2021

Number of Sports Events: 7

Number of Cultural Events: 10

!!!Do Join In This Fest Of UCoE!!!

WORKSHOP ON ReactJS

Date: 5th - 10th July 2021

Time: 09:30 a.m. – 10:30 a.m. Daily

Attendee: Any Engineering Student

Speaker: Resource Persons from Industries

Organizers: IQAC & ITSA

Collaborators: Brainovision Pvt.Ltd. and National Youth Council Of India

New Academic Year Starting From 12th July, 2021

Scan for previous edition



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sanketi.raut@universal.edu.in

akshay.agarwal@universal.edu.in

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