GeM

GRIET e Magazine

SURVIVING THE GLARING TRUTH

Stay Home Stay Safe

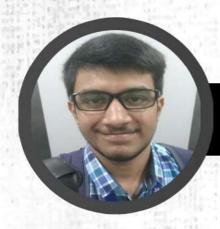# Edit Speak

Surviving The Glaring Truth

"It is not the strongest or the most intelligent who will survive but those who can manage change the best." This March edition reflects the extent to which fellow beings could help and be there for one another during this pandemic. Not to forget, the sacrifices done by the Indian military forces, be it to fight the terrorists, Naxalites what not from entering the country.

Our theme **"SURVIVING THE GLARING TRUTH",** is to bring awareness amongst everyone on what is happening around the globe. We salute every individual who has contributed to serving people in times of need and thereby proving that humanity does exist.

Mentors

Meher Viswanth
CSE DEPT. 4TH YEAR

Sai Shravan
MECH DEPT. 4TH YEAR

Mohsain Dashti
ECE DEPT. 4TH YEAR

GRAPHIC DESIGN TEAM

BOORA AKASH
EEE DEPT. 3RD YEAR

SAI KRISHNA MATTA
CSE DEPT. 3RD YEAR

L.V.M.S.A.N BHARADWAJ
CSE DEPT. 3RD YEAR

SAI ANURAG
CSE DEPT. 1ST YEAR

SAI CHANDAN REGONDA
CSE 2ND. YEAR

CONTENT WRITERS TEAM

VANDANA
CSE DEPT. 2ND YEAR

K. SHREYA
CSE DEPT. 2ND YEAR

TEJAS
ECE DEPT. 3RD YEAR

LASYA
CSE DEPT. 3RD YEAR

SREEJA
CSE DEPT. 2ND YEAR

HITESH
CSE DEPT. 3RD YEAR

CHETANA REDDY
ECE DEPT. 1ST YEAR

ASHISH
ECE DEPT. 1ST YEAR

AYUB ASHRAF
ECE DEPT. 2ND YEAR

RIKSHITH
CSE DEPT. 2ND YEAR

SAMANVITHA
ECE DEPT. 2ND YEAR

POOJITHA
EEE DEPT. 3RD YEAR

SAMPREETH
CSE DEPT. 3RD YEAR

HAPPENINGS

Block Chain Technology

Have you ever heard about Bitcoin (₿)? Do you know what is Cryptocurrency and Technology behind it? Few students from our college now have insight into the the technology behind cryptocurrency! On 14th March 2020 a workshop on Blockchain Technology was organized by IETE (Institution of Electronics and Telecommunication Engineers) of GRIET under the supervision of Mr. Mahesh Uttam Patel, The Additional Director of Center for Development of Advanced Computing (CDAC). IETE is one of the leading Professional Society in India. In October 2010 The IETE Students Forum (ISF) at GRIET was formed by the Executive Council of IETE. The workshop began with a warm welcome to Mr. Patel by the event managers. Mr. Patel has given an introduction about Cryptography, Text Ciphering, and Deciphering followed with an explanation about tools used in Blockchain Technology.

SPEAKERS

Mr. Patel said that Blockchain is a growing list of records called blocks, which are linked using Cryptography. In other words, Cryptography is all about encoding and decoding an algorithm. The encoding of an algorithm is for providing tampered proof security. The Blocks stores information about transactions like the date, time and dollar amount of most recent purchase.

Bitcoin(₿) is a well-known crypto-currency. It is a decentralized digital currency without a central bank or an administrator that can be sent from the user to another without the need for inter-mediaries. The goal of blockchain technology is to allow digital information to be recorded and distributed, but not to be edited. The Bitcoin protocol is built based on blockchain technology. Bitcoin was invented in 2008 by an unknown person or group of people using the name Satoshi Nakamoto and started in 2009. Bitcoins are created as a reward for a process known as mining.

After the lunch break, the Principal and Head of the ECE Department attended the workshop. After being given a detail explanation about Ethereum blockchain technology, students were asked to raise doubts and all doubts were clarified by Mr. Patel. All the 37 participants who attended the workshop showed their interest and were highly participative in the event and gave a positive response about the event.

Finally, the session was concluded with a vote of thanks to Mr. Mahesh Uttam Patel by event managers of IETE for delivering a valuable lecture on blockchain technology.

"Uttam sir gave a detailed explanation about blockchain technology"
- P.Srikar ECE

"I'm happy to attend this workshop to learn a lot of new things about Cryptocurrency"
- Karthika ECE

IMAGE PROCESSING USING OPENCV

Have you wondered how your phone recognizes your face and unlocks itself? The reason behind it is "Image processing". When you look at your phone, it automatically identifies your face and unlocks the phone.

To learn more about the mechanism behind it, IEEE (Institute Electricals and Electronics Engineers) under Geosciences and Remote Sensing Society organised a technical workshop on Image Processing by using "OpenCV" (Open Source Computer Vision).

IEEE is the world's largest technical professional organization, which is dedicated to provide advancing technology for the benefit of humanity. The Student Body (SB) of IEEE GRIET is one of the leading body of GRIET.

On 7 th March 2020, 40 students irrespective of their year and branch shown interest and gathered in ECE block to learn more about Image processing (commonly termed as 'Digital Image Processing'). It is mostly used in the domain of 'Computer Vision'.

OpenCV is a library of rogramming functions which is used in writing algorithms, it is nothing but a library used for Image Processing.

What actually does OpenCV do?

1. Read and Write Images and classify them.
2. Detects faces and its features.
3. Detects shapes like Circle, rectangle and other shapes.
4. Recognize text in images.
5. Modifies image quality and colours.

The system collects or generates images as raw data and it can't be used in applications directly. The image needs to be processed and analyzed before being used in application.

Mr. Vishnu Peesapati who is urprisingly an IV year student from CSE Department of our college is the instructor for the workshop. Earlier he worked on a project called "Development of Surveillance Systems for Forest Fires Using Drones". This project was funded by IEEE and presented in "IGRASS 2019 Japan Summit".

The workshop began with the introduction on Image Processing with an example of human eye image processing and it continued with a brief explanation on pixels, resolutions and image intensity followed by difference between jpeg, png and ppm.

The tool used by the students was Google Colab and the coding was done in Python language. The Instructor has given step by step instructions to write and execute the code. The students understood well and successfully got the required output. After executing few more codes, the instructor has given a detailed explanation about the difference between OpenCV format and image processing format.

During the workshop all the participants were provided refreshments. After lunch break few more codes were executed for better understanding of the mechanism of Image Processing, finally the workshop was concluded with a token of appreciation to Mr. ishnu Peesapati.

"The workshop was informative, interactive and was presented in detail"

- J Abhilash, ECE

"It gave me basic information on python and image processing and helpful for future references"

- P.Karthik ECE.

WOMEN'S DAY 2020

It is quite nostalgic to see our professors dance to the beats of Bollywood and Tollywood songs, just the way our School Teachers did for us during Children's Day. This Women's Day, being a unique one, as we are completing two decades of women's rights, accomplishments, theories, parenthood and everything they have done to prove themselves in this world.

United Nations had themed this year's **Women's Day** as an **Equalization** amongst all people, no matter where they are from, what they wear, how they look, or who they are? Behind every man, there is a Woman! They are women and they give birth to children, which no man can do. This is something unique and a God's gift to be baring such privilege. They also say, **"God cannot be everywhere, so he made Mothers!"**

We celebrated this wonderful day along with the rest of the World on 7 th March 2020 in our college premises. We had a series of fun filled events with all the ladies who have been working their days and nights, just to help us students get that job, work on our thesis, or even work on our higher education. **Professor Dr. Gyatu Shilakri Asthana; Smt. Rashmi Praveen, Technology Entrepreneur; and Smt. Samantha Reddy, Entrepreneur** were amongst the **Chief Guests** invited to the event. The men were present as well. Our Director Dr. J. N. Murthy, our Principal Dr. J. Praveen, our Chief Administrative Officer Mr. M. G. Sekharam, the Deans and the Heads of the Departments showed their support by attending this event.

Beginning with a prayer and lighting a to the Goddess Saraswathi Devi, we showed our respect towards Education and Women! The event was hosted and manged wonderfully by Ms. Saroja Rani Ma'am of the Chemistry – Humanities and Basics Sciences Branch. Ma'am had organized the entire event along with the help of other teaching, non-teaching staff and students in a very professional manner.

The event started with the speeches and words by our College Management and then each of the Chief Guests gave in their views and experiences. It's never too late to achieve anyhting was their main motto and agenda. They believed in what they could achieve and they did achieve them! Listening to their speeches, every woman present there believed in what success really means through their speeches. It is something, that you feel you have achieved and are satisfied with your result! That is the true definition of success. It doesn't rely on the social factor that you are a woman, and you have to stay indoors or once you're home after work you have to take care of your family. That's the mindset of yesterday. In today's world, every man, woman and transgender are the same. We all are humans, and we all are living and co-existing on this very planet to help and work for ourselves and eachother. Our responsibility is to create a sustainable future for the next generations and create a **"World full of Equal Mindsets!"** These were the words given by every woman who spoke of not just their achievements, but their inner thoughts about today's world.

The event was followed on by a series of laughter and enjoyment. There were dances, songs being sung and the show stopper, the Faculty Ramp-Walk! This was filled with a lot of enthusiasm and spirit when those very lecturers who teach us every day, wore beautiful sarees to show off their beauty and determination! In the evening, all the faculty had indoor games such as a Minute-to-Win-it and won prizes for the same.

Ms. Y. Vijaya Lata, of the Computer Science Engineering Department shared her emotional thoughts, "It feels truly blessed and honoured to be a woman and have such great colleagues to make you realize that! We women are happy to have such great opportunities in our college and the support we receive from home is impeccable! We can never thank enough and get such loving Husbands, Children and Parents, who have supported us right from day one and most importantly believed in what we do !"

GRIET PARLIAMENT

Everybody is a political person, whether you say something or you are silent. A political attitude is not whether you go to parliament; it's how you deal with your life, with your surroundings. - Paulo Coelho

And hence,every yearSpirals, the literary club, holds GRIET PARLIAMENT which brings in all kinds of thinkers.

GRIET Parliament is a simulation of the Lower House of the Indian Parliament. That is to say the LOK SABHA. It is in every sense a replica of the actual Lok Sabha. This year's GRIET Parliament, or GP as the parliamentarians like to call it, saw many first-time participants and also many old ones. This year GP was different from usual with 3 major fronts. The ruling party being Jan Dhan Sangh or the consvatives.The opposition had two fronts - Jantantr Sanghra Party being the moderates who were the ruling party previously and the Vampanthe Nyaywadi Party being the leftists, who have been essential in the country's reformation. The Parliament despite all its airs and shenanigans at its core is a debate, and debates are articulate and are the best ways to develop one's public speaking skills. The key to good debating is to have your facts right and listen to the arguments.

The discussion was led by the Speakers, Sai Pranavi and Subitra Pawar, in the first and second session respectively. The bill discussed in the first session was Municipalisation of Education. The bill saw a lot of discussion regarding the economic side of the bill with many arguments going back and forth.

The session was very active with facts and opinions thrown about left and right. The bill passed with a huge margin even with the required number of votes being two-thirds. The bill discussed in the second session was the notorious Reservation Amendment Bill 2020 which was quite beautifully reformed by the ruling party with the inclusion of many minorities and merit-based preference. The session was very interesting. The opposition chose the path of nitpicking at the bill and deviating. Despite a long session where the parties discussed the amendments, the bill was not passed

failing to reach the desired number of votes.

The parliamentarians were scrutinized and marked by the jury chaired by Deepthi, Pranay, Moukthika, Vamsi, Nethra, Badri, Trivedh and Moukthika Reddy. They we're marked on various aspects, few of them being decorum, party policy, accuracy in the discussions and debate rounds and the number of times they were recognised by the Speakers all of which was considered in choosing five of the best parliamentarians. The Best Parliamentarians of GRIET Parliament 2020 were Tapasya, Sampreeth APL, B Chaitanya, Raghav Panjiray and K Lokesh in no particular order. All of them being recognised for being the best among many articulate public speakers.

Ending with the national anthem which sent shivers through everyone present. This edition of GRIET Parliament was one of the best if not the best. Every participant left glad to be a part of the exhilarating debate and promising to participate again.

"Being the Ruling Party's Leader gave me a chance to interact with everyone one last time. I am happy to have had participated being here every year. This year was the best and that is a lot given the previous editions."

— Mohsain fourth year

"This was one of my best memories in college!! I hope these kinds of events continue."

— K Lokesh third year

" It was amazing! This was the last event I am attending. I had to come one last time. As a senior I am so proud of this."

— Shravan fourth year

" This was the last event for me and I am so glad it was. This was the best experience ever and I hope this continues."

—Gagan fourth year

ISTE-TECHTALK

The Indian Society for Technical Education (ISTE) of GRIET conducted a technical talk on "IOT and LoRa" by Prof.A.Radhanand, of Electronics and Communication Department on 25 February 2020 to enlighten the students of 3rd, 4th years and the staff in the fields of IoT and LoRa which are the trending technologies used in the fields of electronics and computers which have vast application and reduce human power.

The event started with the introduction of Speaker A. Radhanand. The session started at 10:30 AM which was attended by students and also faculty of the Electrical and Electronics Engineering Department. Sir started the talk by telling the importance of the Internet of things. IoT is a network in which all physical objects are connected to the internet through network devices or routers and exchange data. It allows objects to be controlled remotely across the existing network

infrastructure. He mentioned that it is a good and intelligent technique that reduces human effort as well as easy access to physical devices. This technique also has an autonomous control feature by which any device can control without any human interaction. He then explained about LoRa, short for long range which is a spread spectrum modulation technique derived from chirp spread spectrum (CSS) technology. These devices and wireless radio frequency technology is a long-range, low power wireless platform that has become the de-facto technology for Internet of Things networks worldwide. Sir explained that the LoRa range is 7 to 20 square feet and is available in frequencies of 433, 868 and 915 MHz. Ra02 433 is the module used for LoRa and this module and microcontroller can be interfaced in the slave master configuration in which microcontroller acts as master and LoRa acts as Slave. Sir explained that a gateway acts as a medium between LoRa and Wi-Fi, Heltech is one such gateway. The application of LoRa is we can push data into the cloud in IoT based systems. Arduino IDE has inbuilt libraries of LoRa and we must know the security key and URL. The advantage of LoRa over other platforms is that it consumes less power, has long-range and more battery power.

We then had an interaction session where students posed their queries to Radhanand Sir, he explained them with

huge interest and enthusiasm. He also showed his project which is prepared using IoT and LoRa technology. This project was about the smart soil sensor of GRIET. Dr.J.Sridevi, Head of the Department, EEE Department expressed her gratitude and thanked A.Radhanand for delivering an excellent lecture and also thanked ISTE faculty coordinator A. Vinay Kumar Sir and team members. Our Director Dr.Jandhyala Narayana Murthy Sir and our Head of the Department Dr.J.Sridevi madam handed a token of Gratitude to Prof.A.Radhanand.

WORKSHOP ON STTP OF MACHINE LEARNING USING PYTHON

Are you aware of all libraries a programming language has and it's deep usage?

Dr. D.Jayanthi, Prof ECE department has taken the initiative to conduct a workshop from 3rd march'20 to 7th march'20. All the students who have attended gained knowledge more in the fields of the Internet of Things and Machine Learning. They have covered the Regression model, classification, decision tree(classifier and regressor), random forest(classifier and regressor), naive bytes, SVM(support vector machine). Many students stated that this one week workshop helped them to get a grip on the basics of the language.

" Workshop was good for basics and helped in getting a string grip on IoT"

— Jashwanth, Second Year CSE

" If they focused on ML more then it would have been more effective."

—Sharath, Second Year CSE

" A great initiative by mam."

— Harsha, Seoond Year CSE

INSTITUTE OF ENGINEERS (INDIA) – EEE DEPARTMENT
OPTIMAL OPERATION OF POWER SYSTEM CONSIDERING RENEWABLE ENERGY RESOURCES

The gradual usage of resources to run the systems has pushed us to explore different renewable energy sources and to learn the optimize in order to achieve the best out of it. IEI GRIET EEE Department have organised a seminar on 'Optimal operation of power system considering Renewable energy sources' by Mr. Surender Reddy Salkuti on 12th March 2020.

The talk was setup to explain how to get the best out of the natural resources available to run the systems effectively. The session commenced with the honourable guests being introduced to the audience. The guests of the day were Dr J Praveen Kumar-Principal GRIET, Mr. Vinay Kumar (IEI Coordinator), Dr J Sridevi the HOD of EEE department. The hosts then introduced the speaker, Mr. Surender Reddy Salkuti.

Mr. Surender Reddy Salkuti received a Ph.D. degree in Electrical Engineering from Indian Institute of Technology, New Delhi, India, in 2013. He was a Postdoctoral Researcher with Howard University, Washington, DC, USA, from 2013 to 2014. He is currently an Assistant Professor at the Department of Railroad and Electrical Engineering, Woosong University, Daejeon, South Korea. His current research interests include power system restructuring issues, ancillary service pricing, real and reactive power pricing, congestion management and market clearing, including renewable energy sources, demand response, smart grid development with integration of wind and solar photovoltaic energy sources, artificial intelligence applications in power systems, and power system analysis and optimization.

We've got four years to phase out fossil fuel subsidies. The world is using up all the fossil fuels at an increasing rate and are going to leave nothing behind for the

for the upcoming generations. They are being dug out, burned, used up and are leaving their carbon footprints on this planet. Studies explained how the fossil fuels are depleting at an increased rate but the needs of the population is never being sufficient. We will be left with nothing but the renewable resources in the near future. This talk helps us to understand the situation ahead us and work in the right path to include natural energy resources with fully optimized.

The speaker spoke about the Importance of demand –side management, why Renewable energy is preferred, Issues associated with high penetration of Renewable Energy Resources (RERS), Integration of Renewable power into Electrical markets. He also came up with Optimal power Flow (OPF), the capacity of wind generation, thermal generation. Students were told about the best technique is used between conventional and metal used techniques, fuel cost minimization, loss minimization, modelling of wind energy system. Mr. Surender Reddy Salkuti also discussed about programs that should be used for wind speed & probability distribution, load forecast uncertainty model, modelling of solar energy system, modelling of solar PV uncertainty, modelling of electric vehicles (EVS). He also explained about the types of equality and inequality constraints, load

demand, wind demand and solar irradiation. He then concluded his lecture by clarifying the queries of the students.

Session has ended with a vote of thanks given by Mr. Vinay Kumar Sir, highlighting the essence of the lecture and thanked Mr. Surender Reddy Salkuti for visiting GRIET and shared his knowledge to the students. Later Dr J Praveen Kumar and Dr J Sridevi presented a memento on behalf of IEI as a token of happiness for paying a visit to our college.

EXPERT TALK ON GERMAN TECHNOLOGY FOR AUTOMOBILE

This month's Expert Talk was given by Professor Georg M Schulligen. A well-known industry expert who is the CEO of German National Training and former Vice President of Mercedes Benz, Germany. He is known for his passion for gaining knowledge and teaching students. The talk was on German technology for automobile engineering. Relaying the role Germany has played in the automobile industry and the recent developments. He talked to students about the current technology, the need for cleaner, green technology and future possibilities. Following the flow of the talk there was a debate on Fuel engine VS Electric Engine. He also talked about the company's manu-facturing unit and the internships offered which would help interested students. The students were had an interactive session with him and were filled with new vigour.

Georg M Schulligen

"It was very informative and interactive. I am glad I attended. It was very useful and I hope we have even more of this."

- Likith, Third Year

Initiative By The College Radio 90.4 fm Community Radio

Connecting through the college's very own radio GRIET 90.4 FM Community Radio took up the initiative to interact with students during the Lockdown. The students were asked to send recordings about how they were spending time with their families. Since most of the students are home with their families because of the unprecedented isolation which is to be taken very seriously to avoid Community Transmission. This situation was last heard of during the Spanish Flu which has taught us that isolation is key. Thus during such trying times, the students with the help of the College Radio have come out to tell us their experiences and the things we can do to keep our days productive.

These are the recordings of students who have come forward to share their day to day lives.

Hello guys, this is Vineet Singh from ECE A first year, and I'm also the part of ISTE core committee. So, how are you guys? How have you all been doing? Well, I hope you all are healthy. I know you all might be thinking that these days are just super boring. But yeah, I do understand that feeling guys, but on the other hand, it is actually obligated for us to follow whatever is instructed to us by the government and the WHO that is washing your hands regularly and not touching your face

Frequently and you know social distancing being the first priority and I am just not passing my time as a bad memory but actually enjoy while being productive. So I always had a thing for Space. So I started stargazing. Also, we all must spend time with our families. I never knew that my dad was such an amazing chess player. So do that that is there might be a lot of things that you might have not known about your family. Just take out your two year old guitar that you might have bought or keep up to the unfinished workout resolution. Complete that watch list on Netflix or go back to spending time with your family because guys this is for the entire mankind you all have passed through many things individually. So, of course we shall win over this too if you are together, so don't just let social distancing be a hashtag. But lets just all actually amend upon it. Let's all fight against this together. Take care! Be Safe!

Hello Everyone. I am Srilakshmi Vardhini from CSE second year and part of ISTE. I hope everyone is doing great. After the government has declared that colleges will be closed for a few days. I thought of completing all Amazon and Netflix series, but later on I realized its better for utilize my time. So I am dedicating my time for my music practice because I have a background in Carnatic music and some time for my Academics and playing indoor games like chess carroms with my family. I request everyone to follow the instructions and precautions given by the government as there is a lock down for few days. Please stay home don't come out until and unless its an emergency. I urge everyone to stay home stay safe. Thank you.

Good day everyone. I hope all of you are safe healthy and in good State. I am Sreeja,a second CSE student and also come from the ISTE student body since the government has declared a complete lockdown till April 14th. I feel that it is a best time for all of us to utilize.

Coming to me, I am trying to be as productive as I can be cademically. I'm trying to reread all subjects that I have faced difficulty earlier. I am also helping my mother in her household chores. Moreover, I am catching up on all the movies that I have missed to watch earlier. I love painting since my childhood days. So this break has given me enough time to pick up my paint brush and canvas. Painting has always given me a lot of peace and mental happiness. I am also playing a lot of indoor games with my family. It feel so nostalgic remembering my childhood days. And since there is a complete lockdown. I also urge all of you to follow the same and avoid unnecessary travels. Do not panic because this is not the time to be panicked be home and fight the virus. That's it guys Bye

Hello everyone this is Zafra from ISTE. As you all know that the world is battling an outbreak of a new virus, called COVID-19, which has claimed more than 10,000 lives and infected hundreds of people around the World with the World Health Organization declaring it Global Pandemic. Various countries have imposed travel bans and temporarily closed tourist sites , schools, cafes, sport clubs and other public spots, so here are some of the preventative measures of this dreadful disease. The first and most important thing is the social distancing that is to stay away from each other, to remain locked up in our houses and the second is wash your hands thoroughly with soap, handwash or a sanitizer. Do not touch your face with your hands. You have to remember that the Corona Virus infected person initially appears normal and does not show symptoms. Infected people seem

Fine at first, but then they can infect hundreds within days. So, maintain precautions and stay at home. Today, India is at the stage where our actions will decide to what extent we can bring down the impact of this disaster. This is the time to strengthen ourselves and resolve again and again. Thank you, so, let us all stay at home and stay safe.

Hello, everyone, I am Rahul, president of E-CELL GRIET, so for the past couple of days have definitely not been wonderful due to the news about the Corona Virus and how it is shaking the world. But thankfully our country in a much better position in comparison with other nations which are affected terribly. And now it is our chance to show up and take care of ourselves and stay hygienic stay at home. So that is exactly what I am doing right now just staying at my home and washing my hands as much as I can and sanitizing before consuming food and that is what I recommend you guys to do. Please take of yourselves and your family. Stay at home. Let's together break the chain of Corona Virus.

Hello everyone! I am Mehul form Ecell GRIET. I want to share my experience during the lock down situation which our country is facing. Last Sunday, when our PM declared the Janata curfew I witnessed something magical and it was all of us again our common enemy and it was Covid 19 and the way people showed their gratitude to our heroes was impeccable. A few days ago when I went to buy Vegetables and there was a lot of panic buying. People were like they won't get vegetables from tomorrow which was completely false. Then while I was returning home I saw a few Policemen counseling people who were on the road for no reason. I thought it was a great initiative. People there are a lot of false rumours going around please be aware of them and please be aware of them and please Stay Home! Stay Safe!

AWARDS

Gokaraju Rangaraju Institute of Engineering and Technology - received Telangana Harithaharam Award from CII by Director IIT Hyderabad

Dr. Jandhyala Narayana Murthy, Director GRIET - received Green Institutional Mentor award at National Conference on Industry-Academiaa Interaction for Water Management from MGNCRE on 22nd March 2020, Hyderabad.

The Indian Society For Technical Education (ISTE) of GRIET conducted ISTE Gathering on 25th February 2020 to recognize their distinguished contribution to ISTE student body. They were granted by Letter of Appreciation which included their post and their dedication towards ISTE which was handed over to the to the ISTE TEAM indiviually by Dr. Jandhyala Narayana Murthy, Director ,Dr.J.Sridevi, Head of the Department, and A.Vinay Kumar, faculty coordinator.

ART
POEMS
QUOTES
RIDDLES
ARTICLES

ARTICLES

BEAUTY IN CHAOS

Sitting on top of the world, I gazed into the distant sky on a winter morning. The freezing fog wrapped around the tall constructions and flora. The black poison that is being released from a chimney of a factory far away blended into the thick grey sky. The traffic is non-existent.

The city seemed mysterious, like an old oil painting. It felt like a seamless collage of emptiness. The devil hushed the city, the silence has injected fear and tension into the soul. The unsymmetrical constructions are simply horrifying. The landscape imparted empathy, with the people living in this giant lonely city; with the people who lead a monotonous life. 'It felt unreal!'; I wondered as I rubbed my hands to feel the warmth.

"Isn't this perfect?"; exclaimed the woman who sat right beside me. I turned to see her. Her smile was summer rain! Her eyes were suffused with pleasure. She sat erect, showing off her curves which are significant and distracting at the same time!

"Huh?"; I questioned her.

"Well…isn't it perfect? The city…the weather…it's just magical. The city is asleep, seeking protection against this coldweather. Adorable little dogs hiding under the vehicles. Paperboy delivering the paper to make his both ends meet. Light being emitted from the streetlight is battling against the fog to grab the attention; birds playing in their perfect playground glorifying the 'freedom'! Howling wind relaxing the soul and the cool layer of air sweeping through the skin, refreshing the torso by giving those magnificent chills. It's just mind-rendering and glorious! And damn this espresso! It just energizes me. PHEW!"

Her reply left me perplexed and speechless. These two perspectives just contradict each other. "What is right and what is wrong? Is the real fog within me or within her?"

- Dhanamjaya Raj
First Year
ECE C

A BRIEF THOUGHT - CORONA'S EFFECT

It's funny how the world has changed and how human behavior can be. Cause when we're faced with a pandemic that has threatened our existence, we've come together and made it a point to look out for if not others, at least for ourselves so as to not spread it to our loved ones; although we may hold each other by the neck at times sometimes at arm's length or you get the idea.

As much one can be happy that people have started to realize the power of unity and as to how if we want to get something done we will, it strikes my heart with sorrow as to what and how much we had to lose to get here. For a start, countries like China, Italy have lost track of people lost in this battle, and fear has become a driving force to instill discipline and quarantine unfortunately via - pretty harsh methods/brutality.

While the whole worlds at a standstill and most wondering should this ever end, mother Nature has had different plans. While one can say that humans have reduced their vehicle and industrial waste emissions to next to nill, and the rest have deserted all public places, our Animal Kingdom has come to reclaim their land and start roaming the way they did before we came and starting living.

Swans and Dolphins have started to inhabit the canals of Venice, Toters have in Singapore started sun basking, the temperature levels have stopped rising and started falling, and nitrogen levels have reduced, and so on goes the statistics.

Sad is the fact that it all had to come down to this, but hopefully, we've learned a lesson from this. Let's not repeat the mistakes made from this, this is an epidemic and a crisis. Although may it have stated from elsewhere, but now is everywhere, please be cautious and be aware cause you never know, what might be in store out there.

Above all, please be thankful for the services provided by doctors, nurses, the Medicine Industry, and the Social Services provided by the Govt. of your country. Cause it is because of them we're sound and healthy.

- Tejas Nambiar
Third Year
ECE C

TOP 5 PROGRAMMING LANGUAGES EVERY SOFTWARE DEVELOPER SHOULD LEARN

A programmer should learn a new programming language every year. I suggest to at least learn following five programming language to do well in your career.

Interviewers are giving more attention to an engineer who has good experience with multiple languages like C++ and Java goes quite well, so is Python and Java.

Why I chose these five programming languages? My reasons are simple and practical. I have chosen languages based on their usage, paradigm, and popularity.

For example, you cannot ignore Java if you want to do application development and looking for a Job. So is JavaScript, which is almost everywhere on the web.

C is the one language I strongly believe developers should learn at the very start of their career because it will help them to get closer to the system and understand key programming concept which is often hidden behind JVM or CLR.

Python is my choice of scripting language though you can also substitute with Perl. Though when it comes to online support, Python is also great. There are lots of python modules available which can do your job in a couple of minutes.

Similarly learning an object-oriented and one functional programming language like Haskell or Scala will widen your thinking and programming sense. You will find more reasons to learn these programming languages in this article.

Top 5 Programming Languages to learn in 2020

A programmer should learn a new programming language every year. I suggest to at least learn following five programming language to do well in your career.

Interviewers are giving more attention to an engineer who has good experience with multiple languages like C++ and Java goes quite well, so is Python and Java.

Why I chose these five programming languages? My reasons are simple and practical. I have chosen languages based on their usage, paradigm, and popularity.

Without further delay, here is my list of 5 programming languages which every programmer or software developer should try to learn.

It contains a mix of languages e.g. object-oriented, functional, scripting, a language which offers a low level of control and language which is widely used in server-side development.

1.Python

Python is one of the most taught languages in school and colleges across the world. In the USA, Python has replaced Java from many academic courses as a preferred language to start with. What will you gain by learning Python? A lot.

Python is one of that language which can be used as a scripting language as well as proper object-oriented language for a large project.

Many popular websites including Reddit are built upon Python frameworks like Django. In recent times, many large organizations are switching to the Python-based framework as well.

Python is also increasingly used for new generation technology like machine learning, artificial intelligence, and Data Science. No wonder, because it has got some awesome machine learning libraries like Tensor Flow, Scikit.

I personally use Python for writing scripts though and it is very useful for doing something quickly e.g. you can write a CSV file reader in 5 minutes in Python as opposed to 20 minutes in Java, forget about compiling, packaging and then using. Just write python scripts for ad-hoc tasks.

2. Java

Java is one of the most popular languages of the last two decade and rules the world of server-side application development. It also holds a sizable market share in mobile games and application development using Android and enterprise web development world.

Java was started with a simple thought of WORA, "write once run anywhere", but over the period, Java actually ran everywhere.

You should learn Java to build robust, scalable server-side application. You can build projects of any complexity in Java, and has a huge community support.

Why should you learn Java? You will only have to focus on application design and code structuring without worrying about system-specific details and memory management. JVM will take care of it.

Java is used by some of the biggest organizations e.g. banks, insurance companies and you can reach masses by writing Android apps.

3. JavaScript

You can replace Java with C++ and Python to Ruby in this list but honestly, there is no replacement of JavaScript in today's world

It is no more a client-side scripting language, with the framework and libraries like Node.js, Angular and React you can use JavaScript on Server side as well for user interface development.

Knowledge of this language has helped us to decide which feature should be implemented server-side and which can be handled at client side e.g. many validations we used to do on the server side was migrated to the client side.

PYTHON

A Highly Expressive Programming Language..

4. C Programming

You cannot be a true programmer without knowing C or C++. This is a very strong statement but I am saying this from my years of experience.

Software engineers and developers who know C/C++ are simply better than programmers who don't know C and it cannot be just a plain coincident.

It's one of that language which you must know. I learned C during my academics and learned many key programming concepts along the way e.g. structure, pointers, memory management etc.

The C is still the most preferred language for system programming and it has given Java a solid competition at the top of the table from last two years.

If you want to learn this wonderful language then C Programming is a good place to start with.

It is also one of the oldest mainstream languages, survived for more than 4 decades now.

5. Scala

Scala is the language which is created based on the best practices of the last 20 years. It is also a functional programming language so it offers a different paradigm, which will improve your thinking and code sense.

Btw, no matter how many programming languages you learn, you must follow the coding and design principles given in Clean Code by heart to become a professional coder. It's those skill which helps you most in your programming career.

IMHO studying languages that offer different paradigms is the best way to improve your programming skill and help you to do your day to day task effectively.

Ideally, a programmer's toolset should include one language which is close to system e.g. C or C++, one object-oriented language like Java, Python, or C++, one functional programming language e.g. Scala or Haskell, one powerful scripting language like Perl, Python or Ruby, and JavaScript.

Yes, there is no replacement for JavaScript.

- *Tirumanpuri Rikshith*
Second Year
CSE D

WORLD WATER DAY

World Water Day 2020 which was observed on 22 March, is all about the inevitable link between water and climate change.

Climate change is also one of the global crisis on which we have to focus. Unlike COVID-19 it can't be prevented or stopped within a year or two. It takes decades to amend the destruction done by climate change. Every country in the world should work towards avoiding further climate change and try to fix the damage that's already done.

How do water and climate change link?

Using water more efficiently will reduce greenhouse gases. Growing demand of water increases the need for energy-intensive pumping, transportation and treatment which contributes to the degradation of critical water dependent carbon sinks such as oceans and wetlands.

As the global population increases, so does the demand for water which depletes natural resources and damages the environment in many places. Extreme weather events are making water more scarce, more unpredictable, more polluted.

How to prevent climate change?

• Water is our most precious resource so we must use it more responsibly
• By balancing the society's water need while ensuring the poorest people don't get left behind
• Adopting climate smart agriculture technique
• Safe reuse of wastewater
• Action plans to tackle climate change need to be integrated across different sectors and countries
• Developing safe and sustainable water management

What can we do as an individual?

Climate delay is as dangerous as climate denial. We as an individual should spread awareness and educate the people about the importance of the water and how it effects the climate change. Climate change can feel scary and daunting but one simple step that we have to take that will make a big difference -Don't waste water.
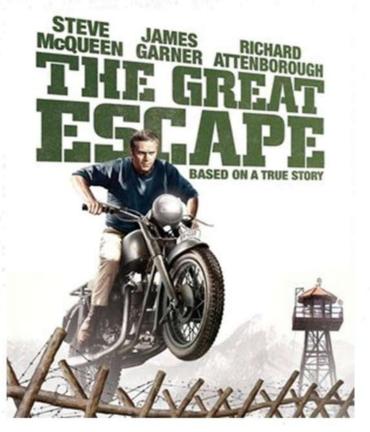
What does World Water Development Report 2020 say?

According the 2020 edition of the World Water Development Report entitled as "Water and Climate Change". The scientific evidence is clear; the climate is changing and will continue to change, affecting societies mainly through water. Climate change will affect the availability, quality and quantity of water for basic human needs, threatening human rights to water and sanitation of billions of people. The alteration of the water cycle will also pose risks for energy production, food security, human health, economic development and poverty reduction which jeopardize achievement of the Sustainable Development Goals.

- Ayub Ashraf
Second Year
ECE C

THE GREAT ESCAPE

The Great Escape, was one of the most audacious projects carried out during World War II. It was an attempt made by Allied prisoners of war to escape Stalag Luft III, a Nazi maximum-security work camp. From April 1943 to March 1944, over 600 prisoners worked on this project. They dug three tunnels, which were named Tom, Dick, and Harry, which they hoped would deliver them to freedom. The tunnels were positioned 30 feet underground to escape any detection by the guards. The plan was devised by a British officer named Roger Bushell, this also provided the expected 200 escapees with forged papers that would help them evade being recaptured once they were free. Out of the three tunnels, only Harry was completed. Two hundred men tried to escape out of it on March 24, 1944, only to discover that it was too short; when exiting the tunnel, the prisoners found themselves completely visible and near a guard tower. Because of this and several other setbacks, only 76 men made it out of the tunnel that night. 73 of them were recaptured, 23 of them were sent to other various Nazi prison camps, and the latter 50 were shot by the Gestapo. Despite the plan's failure, it is still depicted as one of the largest attempts made during WWII, as hundreds of men put their lives on the line to not only enjoy the taste of freedom once again but to also demonstrate their will to resist Hitler's tyranny.

- Samanvitha
  Second Year
  ECE C

QUARANTINE THE CAT? DISINFECT THE DOG?

COVID-19 or the Corona virus that has been around since December'2019 has affected multiple regions across the world. So far we have a total of 500,000+ cases across the globe out of which, 27,000+ have been declared deceased while 130,000 more are on their road to recovery. One popular myth that has been going around is the transmission of the Virus via domestic pets. Now the question is what has led people to believe so? The virus originated from the city of Wuhan, China because an individual decided to have a bat for a meal. Yes, Bats can be reservoir hosts for viruses which can cross the species barrier to infect humans and other domestic and wild mammals. However according to organisations such as the American Veterinary Medical Association (AVMA) and the World Organisation for Animal Health, we do not have any evidence to prove that animals such as dogs and cats can become ill from the virus. Yes, cats and dogs are mammals too. They have many of the same types of receptors on their cells that we do. So the virus could theoretically attach to these receptors. But at this point we need to realize and remember that viruses can sometimes infect a species but not cause illness in that species, nor become transmissible to others.

Another question that's been stuck in our minds, 'Can my pet infect me with COVID-19?" Again there is no evidence, to suggest the same. Corona can primarily spread through Transmission. Transmission occurs when there is contact with an infected person's bodily secretions, such as saliva or mucous droplets in a cough or sneeze. If you want to be very cautious, don't let outsiders handle your pets unless your pet needs veterinary care. On the contrary people infected with COVID-19 should limit contact with their pets.

Stray animals do not have a definite source of food or a roof over their head. Good Samaritans who feed free-roaming animals face a challenge. With increasing restrictions on the movement of people across the country, these animals are in danger of being cut-off from their main source of food. The closure of restaurants and the crackdown on roadside stalls have robbed the animals of another chance of food. Many of them survive on the scraps restaurants provide. A sustained lockdown has made it difficult for the feeders to prepare food for the animals, affecting their ability to buy ingredients. Greater restrictions might push the animals to scrounge through landfills and trash cans, intensifying the chances of the spread of disease. The Animal welfare Board of India has been demanding that feeders be allowed to move about. Member of Parliament Maneka Gandhi had tweeted a letter by AWBI chairperson OP Chaudhary to the chief secretaries of all states and union territories, which pointed out that "Feeder and Fodder for large animals and food for stray companions and animals is an essential service and may be kept in operation during lockdowns". Non-governmental animal welfare organizations are doing their part, staffers and volunteers visit animals in their habitats, ensuring treatment in case of injuries and providing vaccination and sterilization services.

Following appeals from animal and pet-lovers, the Enforcement Vigilance and Disaster Management (EVDM) of the GHMC checked 36 pet stores across the city of Hyderabad. The checks were carried out by EVDM teams to ensure that no animal or pets were left inside the stores without water and food during the lock-down. This initiative of EVDM won appreciation from many including the Municipal Administration and Urban Development Minister, KT Rama Rao who complimented and tweeted "Fabulous job".

Despite the wonderful initiatives taken it is hard to reach these animals in need. The most important thing is for people to understand and not hurt these helpless animals and show compassion. The best we can do in this situation is to be kind and considerate to all living creatures.

- Chetana Reddy
First Year
ECE B

COVID-19 AND THE WORLD AROUND IT

While China has seen improvement in their situation, while Italy being the most affected and the situation spreading across the world, the virus reached a whopping 170+ countries so far. With more than 500 thousand people affected and more than 20,000 fatalities, the world has never become a more chaotic place for mankind. It is true maybe when nature has its own ways of paying back, it pays back with a bang! And we must realize now, that eating exotic animal species will not give man the ego or pride booster. But, saving the same species from extinction, is what will help this world and mankind be at peace.

Every celebrity, politician and even the YouTube Extroverts are staying at home and trying to do their bit by saving humankind. With the numbers increasing every day, our country PM Narendra Modi Ji had issued the 'Janata Curfew' which was observed Nation-Wide on 22nd March 2020. From 7 am till 9 pm, everybody in the country had to stay home, except medical staff and hospital workers, police, media, and emergency – disaster management crew. And the curfew has been extended for 21 days starting from 25th March 2020, in order to keep the country under complete lockdown. This mass isolation of the entire nation is of the most crucial steps in keeping the virus spread under control. Unless people don't stay indoors and isolate themselves, it'll become a huge catastrophe in the history of pandemic outbreaks.

Chief Ministers of all the states along with the Central Government Ministers are taking the necessary steps in reducing the spread. They're working on providing the essentials and the manor needs and supplies to every individual and household. The government is requesting the public not to hoard things and stock up the essentials unnecessarily. We are a diverse and hugely populated nation. If the essentials are bought and stocked up, the daily wage workers and the poor people cannot survive this battle.

Talking about survival, countries like Italy, USA, France, Germany, Spain and Iran have been the worst affected after the virus outbroke into the world. China has started reducing its staff at the hospitals and their people have started going back to work. Wuhan is also on its road to complete recovery. But this isn't over yet.

Almost 3 months after the Corona Viruses have shown their impacts, scientists and doctors around the world, have studied, created and tried various vaccines and medications. Many attempts of which have been a failure. Jennifer Haller, a 43-year-old woman and a mother of two has been the first person in the world to be the volunteer of the COVID-19 vaccine Clinical Trial. She had been injected with the medication on the 17th of

this month and is waiting for her results patiently.

With the number of positive cases increasing every day in our Country, we must abide to stay home and work from home. We can learn a lot from South Korea, which shares its borders with China and has also been affected quite intensely during the very first week, has seen improvements from the second week onwards. The country was able to reduce the number of positive cases by implementing the Isolation Principle and Precautionary measures two weeks before the country witnessed its first case. Russia, being one of the coldest and the largest country has also been able to reduce the impact of spread. Looking at these various scenarios, our government has the step to minimize the impact as the number of positive cases could increase drastically within the next few weeks.

If there is a total lockdown, people must act accordingly. Masks and sanitizers aren't needed. People can use just soap and handwash liquid while at home. The people who are working outside their homes and risking their lives must need these precautionary measures. And the twenty second handwash is required only if you step out of your house and then come back in. Which is not going to happen for the next couple of weeks. We must learn to share and utilize resources carefully. They are limited in number, and take some time

to get replenished and over time, if only a few sets of people finish them, then the rest of the world will not have food or necessities to survive.

While staying at home could be boring to some people, and some people have actually found the time to reach out to their family members, it has been both on the positive and negative to various people. Looking at the various perspectives of people all around the world, the most interesting yet a beautiful deduction would be the two religions the world is looking at, 'Positive' and 'Negative'. This pandemic Coronavirus did bring the world together and make the people realize that, they're all human and we have some sort of humanity left in the and that it is a beautiful World to live in. At the same, affecting such mass numbers of people all at once is a chaotic and saddening moment for everyone in History.

Towards the end, all we have to do sit at home. Getting in touch with our family members, cooking meals with our parents, listening to the stories all over again from our Grand-Parents, and yes, pulling each other's legs. This doesn't need a price tag! We're all having fun, real fun, without spending for parties or fancy restaurants or posting about we're doing on Social Media. All of us can pampered, become naïve, innocent and childish for the next few weeks! So, **Stay Home and Stay Safe and be a Global Indian Citizen!**

- Sai Shravan
Fourth Year
Mech B

MYOKO FESTIVAL

Tucked away in the tranquil valleys of Arunachal Pradesh is a village called Ziro. Apart from being famous for its rice cultivation, the pine-clad village is also the house of Apatani tribes. It also happens to be home to the Myoko Festival.

Myoko festival is celebrated by the many tribes residing in the Apatani villages. It is all about upholding the spirit of togetherness and friendship between these villages, and they take turns in celebrating the same. The Myoko festival is celebrated on a rotational basis by eight Apatani villages. It is also that time of the year when new paddy is sown in the field, and the residents pray for a good harvest in the upcoming months. The 10-day long festival is celebrated by a different tribe every year, and it's usually celebrated from March 20 to March 30 every year.

Aptani Tribes

As the festival goes on, the most important member of the community, called Shaman wears traditional clothes and leads the procedures. A tradition involving

the sacrifice of pigs and chicken is also followed during the festival and is led by the Shaman. He recites and blesses these animals before they are sacrificed. The newly-married women of these tribes also participate in this process and they apply rice flour and Apong — a pungent rice beer, on these animals.

These tribes are animists by nature, and they worship the sun and the moon. They also believe that all non-human natural beings like animals, rocks, thunder, and plants have spirits and they can influence human lives and events. As you begin to decode the Myoko festival from their perspective, you will learn that the festival of sacrifice and purification gives you a great insight into the lives of these tribes.

- Sreeja
Second Year
CSE D

BOOK REVIEW
LOST VOICES
MEMORIES OF A VANISHED WAY OF LIFE
BY GILDA O'NEILL

In the early 40s when the heart of the Industrial Revolution – London , was fast pacing with the machinery and men , the world has forgotten about the women and children who left their homes for months every year to earn pennies to support their men by working in the hop fields far away in southern Kent, East of London.

London was hard to live in in those early years, especially for those who have resided there for a living. The clamours of the city wouldn't stop till the sun went down and many missed their homes faraway in the countryside. The men committed to make West Europe great as per the orders of the Crown and only women were given a choice. The women found the day jobs at the factories hard and couldn't balance rising their kids who were home most of the time, so many chose to go back to countryside with their children to escape that crowded city for a while and also to earn some money.

Common hops were first grown by the Dutch farmers in Europe in the late 15th century and along with bringing in huge revenue to the States it had gained massive popularity for the beverage it was used in making, the beer, which people started to like and enjoy the most. Hops were also used in mild medications. These plants were grown in almost every farm in the rural areas and they required handpicking , this opened up a huge market for the women in the urban states who couldn't get used to the new environment.

Hop picking was usually done in the months of September to November. The women would come and settle in huts with their children in August getting ready for the

extensive labour. The ones that came from the cities, it never felt like work to them, it reminded them of their homes and they usually enjoyed their 3-4 months stay at the fields before going back. Their daily routine was picking and segregating hops in the morning, and sharing stories while having supper together in the evening.

Gilda was taken to Kent by her mother every year from when was three till she turned fifteen along with her two sisters and three brothers, she was the youngest . She writes about the women she spoke to , her own experiences and how things have changed from then. She describes how they decorated their huts , their bus travel from London to Kent , her brothers getting old and moving to Britain for work, every little thing was portrayed exquisitely and reading about the lifestyle and the stay in Kent made me wish I had gone back in time to treasure and cherish those rich moments.

This book is one of my favourites and will always have a special place in my heart. It is a must read for everyone who loves subtle prose.

- Ashish Kativarapu
First Year
II C

HOW IS COVID-19 AFFECTING THE GLOBAL ECONOMY?

With the countries of the world quarantining its citizens, it is more than likely that we are heading towards a Recession.

What is a Recession?

A recession is a period in the business cycle when economic activities are in a general decline, commonly accompanied by unemployment, falling income, and falling stock markets.

As of now, there is no accurate prediction about the longevity of the virus, which in result has the analysts scratching their heads in regards to the economy.

We are already seeing the effects of the recession starting to take place, the price of oil in response to the lowered demand has gone down significantly. When

people engage less with the outer world (work, education, entertainment, etc.) it results in a lowered economic activity.

Businesses will be facing the challenge of disrupted supply of components taking into account a large number of quarantined workforce and factories.

What is happening to the Entertainment Industry?

Sporting events such as TOKYO 2020 Olympics, IPL, NBA, F1 have all suspended their play indefinitely. Cinema Halls throughout the nation have been closed, movie releases postponed.

On the other hand, streaming services have caught on huge traction.

Online learning platforms to are likely to get a boost.

The pharmaceutical industry is working at never foreseen pace to find a vaccine for the virus.

There hasn't yet been any impact that will dramatically change the course of everyday lives, and all we can do is hope it remains that way.

- Karthik Veeravalli
  Second Year
  CSE D

REGRET

Regret is the only feeling I face everyday when I see you infront of me. I wish that all the moments I spent will come back so I can relive the memories again. All the time with you that I took for granted is the time I wish to have now. The feeling that I'd always have you with me crumbled down the minute we chose our path.

If only I'd be given a chance, I'll show you my extent of love that you can't deny. If only I'd wake up from this cruel dream called reality to find you with me. But everything has a begining and an end and and I just hope that it's not the end for us.

Because even in the cruel reality you make it seem comfortable with you on my side.

- Samanvitha
Second Year
ECE C

POEMS

MUSINGS

To live and let live;
Never made more sense.
To delve deep inside.
To nurture whats inside,
So as to preserve all.

For it would matter if,
The inside isn't as good
as the outside.
To patiently water the real plant
And not the reel one.

So, be free in the universe inside
Don't think of it as a cage.
For it is expanding,
Forevermore;
Forever long.

Vandana Yalla
Second Year
CSE-D

W

Soft as a rose, prickly as a stem
Lets now come out of our shell

Its a war for us to win
Being a girl isn't our sin

Break down these shackles
Its a battle for us to tackle

One opportunity, we change the world
One stride, we triumph the world

This discrimination which still prevails
Lets end it at once, not in installments

Lets roar, lets soar
Let people watch us in galore

Soft as a rose, prickly as its stem
Lets now come out of our shel

Nandini Krishna
First Year
CSE-D

THE LIFE OF REFUGEES

Those innocent and haggard faces,
looking for their own traces.
Pondering their relentless entity,
probing for their own identity.
Despite being feeble and fade,
they are in search of shade.
Questioning their own existence,
still waiting for acceptance.
Being exposed to cruelty and brutality,
they are still looking for humanity

Md.Omer
Second Year
Civil-A

YOU GO GIRL

She's beautiful
It's not the eye shadow
It's the way she saw
Her lips were soft
Always had something to say
She had a voice
Her hair was not a tangled mess
it was bouncy
Like her personality
That radiated good vibes
That dress was not too short
it was a piece of clothing
That fit perfectly
Unlike your opinion
Those curvy arms
were biceps
She was strong enough
To fight her own battles
And provide ammunition to others
The homemaker in the house or
the Doctor in the hospital
A degree in medicine or a PhD
She was just as smart
The liner in her eyes
Was just the cherry on top

ACR
First Year
ECE-B

THE WORLD WE LIVE

The world standing high and strong
Shattered by the anonymous germ

The World standing high and strong
Separated by color and race

The world standing strong and high
Shaken by the nature's strike

The world standing high and strong
Flustered by man's deceive

The world standing high and strong
Build by the women's sacrifice

The world standing high and strong
Not so strong and yet not so high

Ayab Ashraf
Second Year
ECE-C

WAKING UP

Trying and failing was something she was used to.
Falling and giving into the pain,
She began to believe the pain was now a part of her.
The pain she complied to,
While the darkness blinded her.
She did not anticipate that one day it would end,
It never dawned on her the falling wasn't forever.
There would come a day where,
The pain would fade away,
The wounds would heal,
She will be able to see light and discover hope once again.
To finally wake up to a world brimming with brightness.

Veda Anand
Second Year
ECE-C

ARTS

Nupur Phadke
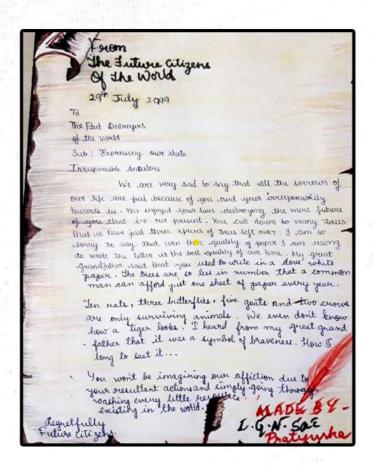First Year
Mech A

Meher Viswanath
Fouth Year
CSE D

Vaishnavi.G
Second Year
CSE D

Chetana
First Year
ECE B

From
The Future Citizens
Of the World

29th July 2099

To
The Past Destroyers
of the world

Sub: Expressing our state

Irresponsible ancestors

We are very sad to say that all the sorrows of our life are just because of you and your irresponsibility towards us. You enjoyed your lives destroying the mere future of you that are our present. You cut down so many trees that we have just three species of trees left over. I am so sorry to say that even the quality of paper I am using to write the letter is the best quality of our time. My great grandfather said that you used to write in a dove white paper. The trees are so less in number that a common man can afford just one sheet of paper every year.

Ten rats, three butterflies, five goats and two crows are only surviving animals. We even don't know how a tiger looks. I heard from my great grand-father that it was a symbol of braveness. How I long to see it...

You won't be imagining our affliction due to your resultant actions and simply going through wasting every little resource existing in the world.

Regretfully
Future Citizens.

MADE BY -
L. G. N. Sai
Pratyusha

Pratyusha
Second Year
ECE A

QUOTES

Difference between winners and game changers …
The difference is that one word mindset…
Winner: I can do it …
Game changer: I will do it …

Your anger is like that burning fire ,it will burn you down and as well as hurt those very few truly caring ones who come to calm the fire ….

A millionaire plans while you sleep for hours…
And does hustle in a very smart way , while you have

2 types of people in the world
1)I wanna win it..
2)I am going to own it ..
Decide who you wanna be .

- Mohsain Dashti
Fourth Year,
ECE C

You give your actual best when you forget about winning!

Remember, you forget the perfect when you start to adjust.

- S Savitha
Second Year
CSE D

RIDDLES
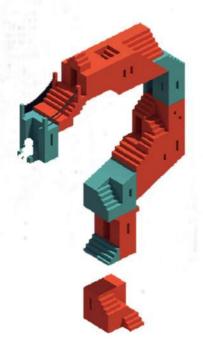
A New Challenge Every Month

Question 1:

5 thieves must decide how to distribute 100 gold coins among them. The thieves have seniority levels, the senior-most is A (leader), then B, then C, then D, and finally the junior-most is E.

The most senior thief, that is the leader, proposes a distribution of coins.
All thieves vote on whether to accept the distribution, i.e, either yes or no.
The distribution is accepted when it receives 50% or more number of votes.
If not received, the leader will be shot dead and the next most senior will become the leader and proposes a new distribution system.

Every thief is cunning, intelligent and wants to survive.
Can A survive?
If yes, what is the maximum A can get?
If no, who gets the highest and how much?

FICTITIOUS SERIES

BY SAMPREETH SHARMA A.P.L.

Chapter: Four

It was a peaceful and gloomy evening. There were packed roads, jammed signals and honks filled the air. It was very breezy that dusk, one that makes boyfriends become William Wordsworth.

The atmosphere was electric in the wedding hall, was nothing short of a celebration. Everyone was busy taking group photographs and singing. A lot of positive vibes were in the air. A thousand people, a million jokes and a billion laughs, it was Karim's day. But he decided to stay with his best friends because he wasn't good with the crowds. He had his gang, the Fab Four. They were with him from his childhood but were posted to different places now. In the last event, before the transfer orders arrived, they made sure to be with their families.

Karim and his bride Zubeena had to go to the jewellery store to get necklaces. Sampreeth, Sudhamsu and Sharma joined. Sharma asked his wife to stay back and take rest as she was a seven-month pregnant woman.

2008.
6.36 P.M.

It was a one hour drive to South Mumbai owing to the traffic. Sharma took the wheel while Sampreeth accompanied him in the front seat, rest settled backside. They were excited their friend was getting married, but Sharma was as calm as the sea. He knew what comes after marriage. Sudhamsu and Sampreeth were in a mood, and Zubeena felt comfortable with them. They kept talking throughout the journey. Karim notices Sharma smile to himself while he remained calm.
"What is it, Sharma? You are not talking."
"Nothing, I'm just wondering how you are celebrating your doomsday."
Everyone starts to laugh at the joke and Karim pitches in, "Ah! Come on! Don't be like this is. It isn't the end of the world!"
Sharma smiles and whispers "Welcome to the Club."
"I think I should probably talk to Vandana about what's happening with you" jokes Karim.
"What do you want to do? Kill me?" asks a sarcastic Sharma.
The conversation continued as they drove over the Marine Drive, where they parked and took a moment to look at the sea. It is astounding how nature calms people down and makes them realise their existence in this cosmos.

They lost themselves to their thoughts for a moment, at the Gateway of India. Karim's eyes were sparkling while looking at Zubeena, like her red locket on her chest, which she was holding tight looking at him with hope, as a promising future. That moment, they stood there like two lovers who were eternally waiting for each other's arrival, tender, vulnerable, hopeful and trusting each other.

They desperately huddled closer to exchange their breaths with nothing but bodies separating them. The breeze, the crowd, the life, everything ceased, for all they knew was each other's taste. Sampreeth being a reserved person, decided to give them their space and stopped Sudhamsu from staring at them and took him aside. Sharma looked away with a grin on his face and a flood of memories drenching him.

Karim looks into Zubbena's eyes and confesses his love to her with the three magical words.

I Love You.

**9.33 P.M.,
South Mumbai.**

Karim and Zubeena complete their shopping and collect their jewellery.

Life is perennial like time and space. It's just that one doesn't remember what happened or know what will happen.
The right person in the right time at the right place could change everything.

The five of them hear something that they least expected.

Gunshots and havoc.

Imagine this: *A wrong person in the wrong time at the wrong place.*

26th November 2008,
Chatrapathi Shivaji Terminus.

10 Lashkar-e-Taiba militants from Pakistan, with heavy ammunition and explosives, let loose and before anyone could comprehend the situation they were shot dead. It was a demon prevailing, an evil terrorizing and a shadow darkening.

A 24-year dream, a 15-year practice, a 4-year training and an ambition of a lifetime collapsed in a fraction when Sampreeth got shot in his chest. He fell on Sudhamsu who was already down. Sharma put his skills to work and made sure Karim and Zubeena were in cover. They hid behind a wall in the railway station for all they knew was that the terrorists were on the other side.

Sharma could see Sudhamsu and Sampreeth lying dead on the ground and wanted to know their condition. He glided towards the other wall leaving Karim and Zubeena behind after asking them to stay low and quiet.

The terrorists left the railway station to take Leopold Cafe down.

Sharma waited till the terrorists left and went to Sampreeth and Sudhamsu. Zubeena bled from her mouth, and Karim realised she took a bullet in the heart that broke her locket. Karim malfunctioned. He had his bride, a future and a hope fall apart with no words coming out. He tried to give her oxygen and held her wound tight to stop bleeding.

Zubeena died that night.
Sharma left the bodies there and ran out of Karim's sight.

Two of his best friends were dead.

Karim sat there among 58 dead bodies and 110 injured people. Some lost their hands, others lost legs, few got shot in the abdomen and others lost their loved ones.

Karim just sat there, gawking at Zubeena's loss, his loss, with continuous gunshots and periodic blastings in the background.

You are a child of the universe, no less than the trees and the stars. You have a right to be here and No doubt the universe is unfolding as it should.

It's all greed, but that's agreed.

Imagine this:
You are a child of the universe, no more than the trees and the stars. You don't have a right to be here. Your universe is not unfolding as it should.

Nothing, I'm just wondering how you are celebrating your doomsday.
....

JAMIE OLIVER'S SPECIAL DOSA

SERVES 6

COOKS IN1 HOUR 30 MINUTES PLUS SOAKING AND FERMENTING

NUTRITION PER SERVING
- Calories 501 - 25%
- Fat 12.2g - 17%
- Saturates 7.8g - 39%
- Sugars 15.5g - 17%
- Salt 0.1g - 2%
- Protein 15.5g - 31%
- Carbs 89g - 34%
- Fibre 8.9g

(OF AN ADULT'S REFERENCE INTAKE)

Ingredients

- 3 red onions
- 500 g Maris Piper potatoes
- 1 plantain
- 500 g squash or pumpkin
- 10 cm piece of ginger
- 2 fresh red chillies
- coconut oil
- 1 teaspoon mustard seeds
- 1 teaspoon fenugreek seeds
- 10 fresh curry leaves
- ½ teaspoon turmeric
- 6 sprigs of fresh coriander , to serve
- mango chutney , to serv

BATTER

- 150 g urid dal
- 300 g rice , (I used sona masoori)
- 1 tablespoon fenugreek seeds

TOMATO CHUTNEY
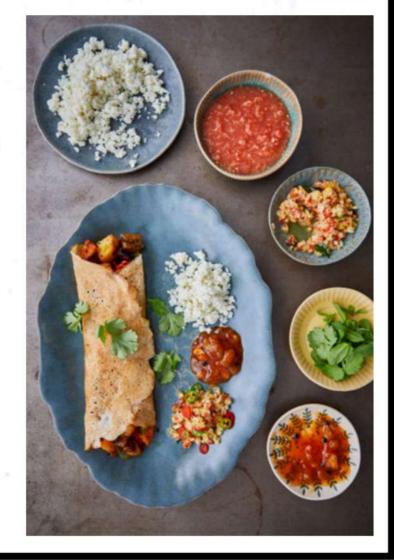
- 2 ripe tomatoes
- ¼ white onion
- 5 cm piece of ginger
- 1 fresh red chilli
- 1 lime

COCONUT CHUTNEY

- 1 fresh coconut
- 1 lime
- ¼ white onion
- 3 cm piece of ginger

LEMON PICKLE

- 1 lemon
- 1 fresh red chilli
- vegetable oil
- 1 pinch of cumin seeds
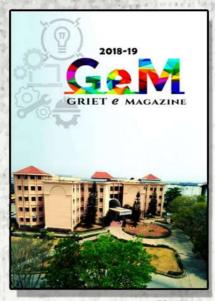- 1 teaspoon black mustard seeds
- 6 fresh curry leaves

Method

1. To make the dosa batter, wash the dal and rice thoroughly, then drain and soak in 900ml of fresh water with the fenugreek seeds, covered, for 6-12 hours or until the grains have swelled and softened.

2. Tip the mixture into a blender and whiz until smooth, then transfer to a non-metallic bowl. Cover and set aside overnight, or until the mixture is frothy, light and full of volume.

3. Once the batter has fermented and you're ready to get started, preheat the oven to 180°C/350°F/gas 4.

4. To make the filling, peel and roughly slice the onions, scrub and roughly chop the potatoes, peel and chop the plantain and squash. Peel the ginger and finely slice. Finely slice the chillies into rounds.

5. Place a large baking tray directly on the hob over a medium heat. Add 1 tablespoon of coconut oil, the mustard seeds, fenugreek seeds and curry leaves, and cook for 2 minutes or until sizzling. Add the onions, chilli and ginger, stirring to coat in the spices.

6. Add the potatoes, squash and plantain, followed by the turmeric. Give it a good stir and place in the hot oven for 1 hour or until the vegetables are golden and soft. Once cooked, smash it all up ready for filling your dosa.

7. Meanwhile, prepare your chutneys and pickle. For the tomato chutney, halve the tomatoes, then coarsely grate into a bowl, discarding the skins. Peel the onion and ginger and finely grate into bowl with the chilli. Squeeze in the lime juice and season to taste with sea salt and black pepper.

8. For the coconut chutney, crack open the coconut and scrape out the flesh with a fork (or coarsely grate) into a bowl. Finely grate in the lime zest and squeeze in all the juice. Peel and finely grate in the onion and ginger, then season to taste.

9. For the lemon pickle, quarter the lemon, discard the seeds, and finely chop. Finely chop the chilli (seeds and all). Place a small frying pan on medium heat with 1 tablespoon of vegetable oil. Add the cumin and mustard seeds, wait for them to pop, then go in with the curry leaves, lemon and chilli. Cook for 30 seconds, stirring constantly, then season to taste and pop into a little serving bowl. Leave to cool.

10. To cook your dosa, one at a time, place a large non-stick frying pan on a medium heat and grease with a little vegetable oil. Season your batter with sea salt and give it a good whisk. Add a ladleful of batter to the pan, using the back of the ladle to swirl it around getting it as thin as possible. Cook for 5 minutes or until the underside is golden and crisp. Drizzle a teaspoon of vegetable oil over the surface of the dosa (no need to flip it) and cook for 1-2 minutes more.

11. Load up your dosa with the spicy veggie filling, roll it up like a cigar and keep warm in the oven while you cook up the rest of the dosa. Repeat with the remaining batter.

12. Garnish the dosas with a sprig of coriander and serve with the chutneys for dipping. Delicious!
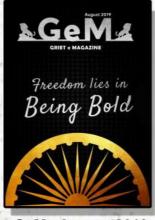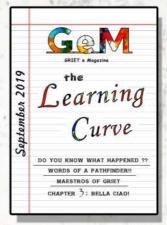
- Sai Shravan
Fourth Year
Mech B

GeM - Annual Magzine 2018-19
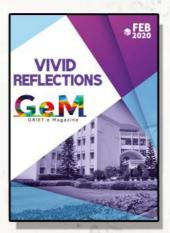
GeM - July 2019

GeM - August 2019

Gem - September 2019

GeM - Oct-Dec 2019

GeM - Jan 2020

GeM - Feb 2020